

MT

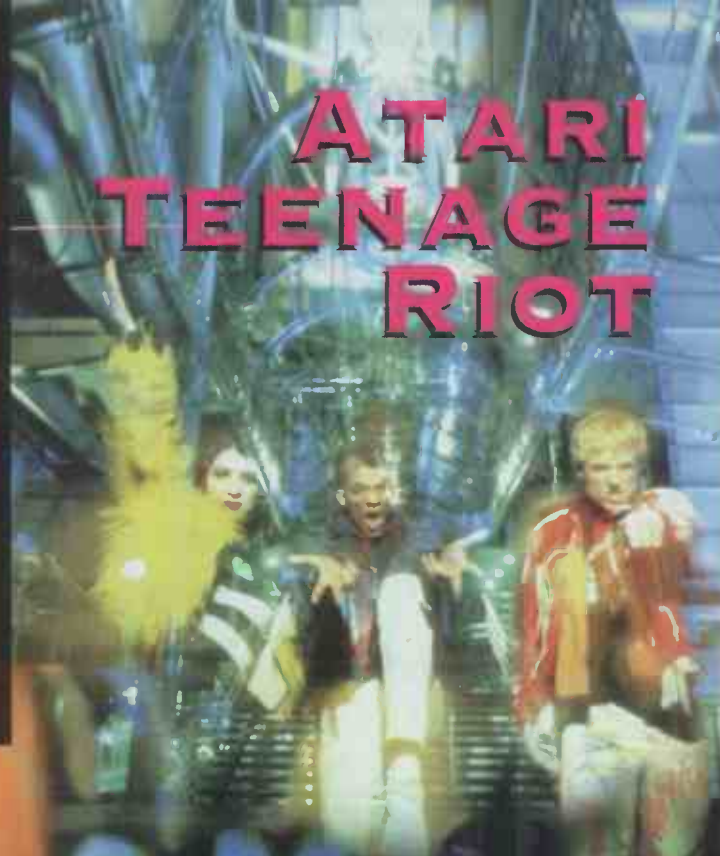
THE MUSIC TECHNOLOGY MAGAZINE

Issue 84
Oct 1993



£1.95

ATARI TEENAGE RIOT



THE LISTENING POOL

INDIE LABELS – THE DANCE
BOOM AND AFTER

A-Z OF ANALOGUE – PART 3

Peavey XR 1200D mixer

Passport Producer

– multimedia for the Mac

Roland JV-1000 workstation

Akai DR4d hard disk recorder

Pulsar universal interface

Korg 05R/W module

*Music for
stadiums*

ENO AND THE CONVERSION OF U2



TALK TO STRANGERS

TALK TO STRANGERS

BLISS!
10 Brief History Of Ambient
double CDs to be won
in this issue

GIG

SOUNDISTS

CATFORD

20-22 Rushey Green,
Catford, London SE6

081 690
8621
081 690
1848

LATEST ROLAND STOCK HAS ARRIVED!

Roland

Keyboards, modules, drum sequencers & accessories.
More stock arriving all the time - Please call!!



ROLAND SUPER DEAL
JD800 + JD990 -
SAVE £1399 ON RRP -
PHONE FOR DETAILS

KEYBOARDS

JV1000 - 76 note workstation, coming soon, only £1859
JV80 - 61 note multi-performance synth
JV30 - 16 part multi-timbral, superb sounds
JV800 - realtime programmable, huge sounds
JW50 - 317 sounds, 49,000 event sequencer.
A30 - 76 note mother keyboard, amazing value

AX1 - 45 note remote keyboard, excellent performance model
DJ70 - sampling workstation, built in sequencer modules
JD990 - new super JD synthesizer module
JV880 - 1U expandable module
SC55 Mk 2 - Sound Canvas, GM/GS format
SD35 - new sound module & MIDI file player in one unit
SC155 - Sound Canvas with editing sliders
DRUM SEQUENCERS
R8 Mk II - new human rhythm composer, 200 sounds
R70 - great sounds and human feel + rhythm expert system

YAMAHA MASTER CENTRE

AVAILABLE NOW
YAMAHA PF85
28 NOTE STAGE PIANO
ONLY £985

SY85 workstation£1299
SY35 keyboard.....£980
P100 piano.....£1499
TG500 module.....£980
TG100 module.....£980
QY20 sequencer.....£980
QY20 sequencer.....£980

MDF2 data filer.....£980
RY30 drum machine.....£980
RY10 drum machine.....£980
NS10MC studio monitors.....£980
AM802 mixer.....£980
MV802 rack mixer.....£980
A100 power amp.....£980
P2075 power amp.....£980
FX 550 new multi FX.....£980
EMP100 multi FX.....£980
R100 reverb.....£980
MFC05 MIDI foot controller.....£980

New GW50

50 multi effects, 248 backing patterns, chord changes from foot pedals, built-in tuner, fully adjustable mix levels...**£649**

Choosing the wrong P.A. system or sound re-inforcement unit could be your most expensive mistake!! We have large showrooms with everything set up to be demonstrated. Don't be fooled! Come & try it at Gigsounds

Example

P.A. package - Peavey XR600 6-channel mixer amp + Peavey HiSys 1 speaker cabs 300 watt with compact system ideal for duos, keyboard rigs & bands...**£999 complete**

Keyboard Amps



Peavey KB300.....£515
Peavey KB100.....£319
Peavey KB60.....£269
Peavey KB15.....£109
Laney KB120.....£395
Laney KB80.....£265
Laney KB50.....£220
Laney KB30.....£170
Carlsbro K100.....£375
Carlsbro K65.....£265

P.A. Equipment

Electro-Voice Endyme 257 mics only£115
Cerwin Vega PD18B full range cabs pair.....£990
JBL M330 pair.....£870
JBL M350 pair.....£999
Peavey EurySys 2 pair.....£260
Peavey EuroSys 3 pair.....£300
Peavey HiSys 1 1x12 pair.....£550
Peavey HiSys 2 1x15 pair.....£580
Peavey XR600 head.....£495
Peavey XR500 C head.....£395
Peavey CS800 power amp.....£599
Klystrom 1000 power amp.....£850

Phonic 8-2 mixer - built in MIDI thru-compact - high quality **£199**

Studiomaster Powerhouse 250 + 250 watt 8 channel mixer-amp digital FX - **£895**

RECORDING Fostex



Fostex R8.....£1399
Yamaha MS101-II powered monitors.....£198
Phonic 100w reference monitors.....£149 pair
Yamaha MT3X.....£495
Yamaha MT120.....£385
Tascam 424.....£489

Now in stock - New Tascam Porta 07 high speed 4-track **£379**

★ Yamaha MT8X - New 8-track cassette - coming soon ★
STUDIOMASTER DESKS EXCLUSIVE STOCKISTS

Philip Rees MIDI Accessories (Mail-order post free)

2M merge unit.....£69.95
5 x 5 MIDI switch.....£99.00
MCV MIDI to CV convertor.....£189.95
W5 dual input thru.....£55.95
V10 MIDI thru.....£39.95
V3 MIDI thru.....£14.95
2S selector.....£14.95
3B selector.....£29.95
5S selector.....£29.95

AMPEX TAPE REEL TO REEL DAT + CASSETTE
Phone for home delivery

Keyboard Stands

X- stand single.....£25
X- stand double.....£40
Quik Lok single.....£35
Quik Lok.....£59
Quik Lok triple.....£95
A - frame double.....£95

KORG

01W/FD WORKSTATION

★ 48000 note sequencer
★ 48 Mb waveform memory
★ 200 programs
★ 32 oscillators
★ 4 outputs
★ PHONE FOR A GREAT PRICE
★ **M.I. KEYBOARD**
★ 16 oscillators
★ 4 Mb waveform memory
★ 100 programs
★ 4 outputs.....£899

Free keyboard stand
Wavestation EX keyboard.....£1099
Wavestation SR module.....£899
03RW module.....£980
A4 multi effects floor unit.....£399
NEW G3 multi FX pedal.....£185
Reverb, delay, chorus, flanging, distortion, amp simulation, noise suppression, 9 memories + a power supply!
NOW IN STOCK - New X3 Workstation - 6 Meg, PCM samples, 340 multi sounds, 164 drum sounds, general MIDI, 32 note polyphony, 32,000 step sequencer.....£1399

Low Cost Sampling!

Replay 16 - 16 bit sampler for Atari ST - up to 50Khz, loop, fade, pitch change & much more only **£129**

GEM

S2 keyboard 61 note workstation.....£POA
S3 keyboard 76 note wavestation.....£POA

★ 250,000 event sequencer
★ 6 outputs
★ 32 oscillators + filters
★ 2 Mb sample RAM area
★ Now with FREE translator software worth £79
★ Turbo upgrade kit available soon

SPECIALS

Second-hand
Ex-demo
End of line

Korg Data Filer s/h.....£189
Gem S2 workstation ex-demo.....£1050
Lexicon LXP1 reverb.....£345
Lexicon MRC MIDI controller.....£225
Korg Wavestation EX.....£1099
Studiomaster Mixdown 16:4:8.....£1495
Studiomaster Pro-line 16:2R.....£845
Yamaha EMX 2200 mixer amp.....£799
Yamaha P2040 power amp.....£199
Digitech MC7 MIDI foot controller.....£129
Electro-Voice Endyme 257 mics.....£115
Cerwin Vega PD18B full range cabs pair.....£990
Korg DRV 3000 reverb.....£350
Akai AR900 reverb.....£199
Akai XR 10 drum machine.....£199
Cheetah MD 16 drum machine.....£199
Cheetah MD 16R drum machine.....£220
Cheetah PM-16 pad to MIDI interface.....£149
Korg S3 drum machine s/h.....£349
Roland G56 multi FX.....£299
Casio MT 600 keyboard s/h.....£89
HW MX8 disco mixer.....£99
Tascam M1B line mixer.....£199
Roland M-160 line mixer.....£645
ART Multiverb FX.....£199
Casio CT660 keyboard.....£189
Yamaha PSR3 keyboard.....£79
Yamaha MV 100 line mixer.....£139
Yamaha GSP100 FX.....£129
Yamaha TX 81Z module.....£210
Siel analogue module.....£145

HIRE ITEMS

RATE PER NIGHT

Alesis SR16 drum machine.....£25
Yamaha QY20 sequencer/module.....£15
E-MU Proformance piano module.....£10
Korg DRV 3000 reverb.....£20
Phonic twin 15 band graphic.....£15
Yamaha TX81Z module.....£20
Siel analogue module.....£20
Peavey KB300 keyboard combo.....£35
Akai AR900 reverb.....£20
Cheetah MD 16 drum machine.....£20
Akai XR 10 drum machine.....£20
Korg S3 drum machine.....£25
Korg SQD1 sequencer.....£15
Laney PL100 bass combo.....£30
Charvel bass guitar.....£20
Crate G80XL guitar combo.....£25
Squier Stratocaster.....£20
Hohner acoustic guitar.....£10
Double keyboard stand.....£5
Twin disco deck (powered).....£40
Peavey 150w P.A. head + speakers.....£45
Yamaha 400w mixer + speakers.....£50
Peavey 12-channel mixer.....£20
Shure SM58 microphone.....£5
Microphone boom stand.....£5
Gem S2 keyboard.....£35

WEEKLY RATES NEGOTIABLE PLEASE PHONE FOR DETAILS

ASSORTED EX-DEMO SOFTWARE - ALL AT SILLY PRICES -
C-Lab ★ Hybrid Arts ★ Steinberg ★ etc
Phone for surprise
E.g.: C-Lab Notator Alpha £125

DELIVERY
most deliveries in the London area will cost just £5 to your door.
We accept Visa, Access, cash & cheques

SKB
19" RACK FLIGHT CASES
2U £99 4U £109
6U £119 8U £125
FREE DELIVERY

ERIC LINDSAY LIMITED

IN

the first place

Anyone, like myself, currently in the market for a new computer, will no doubt have marvelled at the power and sophistication of the latest machines, and then cursed the bewildering variety and virtually assured obsolescence which lays only a few months ahead. It's a problem which bedevils purchasers of all hi-tech equipment, but none more so than computer buyers.

Matters aren't helped by the determinedly partisan approach taken by devotees of the four main computer platforms, each believing theirs to be the only sane choice one could reasonably make. Mac users have always believed in the superiority of their machines as creative tools - and there's some justification for this. By contrast, PC owners often speak of the ubiquity of the range and their low cost in comparison to other machines (the Mac).

Most Atari Falcon owners made the transition from the ST, and point to the inclusion of MIDI sockets on both machines as evidence of Atari's commitment to the musician. Meanwhile, owners of recent Amigas are keen to play up the multimedia capabilities of their machines and drop the word 'multitasking' into the conversation at every opportunity.

After some deliberation, my view of the four formats is, predictably, rather different. To my mind Apple are still guilty of overcharging for their machines, and are now also to be taken to task for introducing too many models into the range. PC manufacturers are not to be forgiven for treating all non-business users with apparent disregard. Atari, frankly, couldn't be trusted as far as they could be corporately thrown and certainly do not deserve the loyalty they receive from users. And Commodore need to spend much more of their time and budget overcoming the 'games' reputation which they were once happy to cultivate.

So which have I decided upon? Well, with the shadow of RISC technology looming large at the moment - and all that implies in terms of speed and power - it'll have to be a machine offering the requisite upgrade path. I also need reliability, as I'll be using the machine as part of my job.

And I'm also thinking seriously about a direct-to-disk recording system, and... oh hell, I don't know... perhaps I'll buy a new car instead.

Nigel Lord

EDITORIAL

EDITOR

Nigel Lord

DEPUTY EDITOR

Phil Ward

FEATURES EDITOR

Simon Trask

TECHNICAL CONSULTANT

Ian Waugh

PRODUCTION EDITOR

Sarah Short

SUB EDITOR

Andrew Jones

ART STUDIO

CREATIVE DIRECTOR

Stuart Catterson

ART EDITOR Sam Masters

STUDIO Darryl Tooth, Hilary Reed,
Chris Brennand, David Houghton,
Zoë Wightman, Simon Fortin
Sarah Clark, Sally Hilton

PHOTOGRAPHY

James Cumpsty

ADVERTISING

ADVERTISEMENT MANAGER

Colin McKee

AD PRODUCTION

CO-ORDINATORS

Rachel Smith, Belinda Lee

ADMINISTRATION

CIRCULATION MANAGER

Rose Westall

MAIL ORDER Lisa Watts

PRODUCTION MANAGER

Mike Stapleton

DIRECTOR

Alan Goodes

MANAGING DIRECTOR

Dennis Hill

CHAIRMAN

Terry Day

SUBSCRIPTION ENQUIRIES
0353 668586

MAIL ORDER HOTLINE
0353 668586

MT (ISSN 0957-6606) is published by Music Technology (Publications) Ltd, a subsidiary of Music Maker Publications (Holdings) plc, Alexander House, Forehill, Ely, Cambs CB7 4AF. Tel: 0353 665577 (all departments). FAX: 0353 662489 (PAN: Musicmaker)

Printing by Heron Print, Heybridge, Maldon, Essex.

Distributed by SM Magazine Distribution Ltd. Tel: 081 677 8111 • Fax: 081 769 9529

All material is subject to worldwide copy protection, and reproduction or imitation in whole or in part is expressly forbidden without written consent from the publishers. All reasonable care is taken to ensure accuracy in the preparation of the magazine, but Music Technology (Publications) Ltd cannot be held legally responsible for its contents. The publishers cannot assume responsibility for the return of unsolicited manuscripts, photographs or artwork.

Copyright 1993 Music Technology (Publications) Limited.

**MUSIC
MAKER
PUBLICATIONS**

Simply the best



£1649
or less

If you're looking for that rare combination of superior sound quality and intelligent functionality, in a contemporary keyboard that's also bold enough to take out on the road, look no further than the new Roland E-86 Intelligent Keyboard.



It was not coincidence that we used Tina Turner's 'Simply The Best' song on Standard MIDI file disk to illustrate the versatility of the E-86 with its 241 CD-quality sounds, 128 user programmes, full GM/GS support and built-in 3.5" FDD disk drive, which can load and save song data in real time while-you're-playing to your audience.

For further information on the E-86 or the name of your nearest Roland dealer contact:

But then, if you also take advantage of the comprehensive arrangement and programming facilities with 64 superb music styles (plus a further 60 on disc), the ability to create any number of your own styles as well as professionally edit the on board sounds, 8 accompaniment tracks and high resolution internal song recorder, don't blame us if you can charge the same rate as a five piece band.

Roland (UK) Limited, Atlantic Close, Swansea Enterprise Park, Swansea, West Glamorgan SA7 9FJ. Telephone (0792) 310247.

 **Roland**

● 8 Scanners

All the news you can eat. And then some

● 18 ATR

Berlin's techno anarchists Alec, Carl and Hanin are here to cause a riot. Ringleader Alec Empire mouths off on the ambient backlash Phil Ward

● 20 The MT Ambient Quiz 2

This month it's Virgin's ambient compilation A Brief History Of Ambient Volume 1 which is up for grabs

● 22 State Of Independents – part 1

In Part 1 of a series on independent labels, MT looks at the case histories of Fon and Riff Raff, to discover just what it takes to get going and avoid the pitfalls Simon Trask

● 27 The A-Z Of Analogue

Part 3, Chadacre to Crumar Peter Forrest

● 32 The Listening Pool

Ex-OMDers Paul Humphreys and Martin Cooper are back with new material and plenty to say on OMD, songwriting, sampling and going independent Phil Ward

● 36 The HEX Guide To Multimedia

Hex's Matt Black reveals the secrets of getting started and getting in sync with video, graphics and music Simon Trask

● 39 Touching Bass – part 9

MT's bass-o-matic goes into automated ninth spin Simon Trask

● 42 Brian Eno

In our exclusive interview, the great domed one himself waxes ambient on remixing, jazz, Sinatra, computers, the Eventide H-3000 and his own original definition of a new, environmentally sound music David Toop

● 46 Zoo TV

MT goes backstage at U2's multimedia spectacular and discovers the technical realities behind Eno and the band's vision. Engineer Dave Lemmink unveils the system that redefines stadium rock Phil Ward

● 49 Quality Control

*Equipment reviews without tears. This month:
Roland JV-1000 music workstation
Studiomaster Star System 8:4:2 mixer
Passport Producer multimedia software for the Mac
Zoom 9001 advanced multi-effects processor
Ensoniq CDR-1 sample CD-ROM
Akai DR4d hard disk recorder
Pulsar Universal Interface
Korg 05R/W General MIDI module
Peavey XR 1200D powered mixer + HiSys 2 monitors
Novation mm10-X keyboard
Short Cuts*

● 79 Dare!

Phil Ward is busy this month, so Home & Studio Recording magazine's Andrew Jones reviews your demos

● 82 Stamp

Letters to the Editor

● 83 That Was Then

● 84 MTease

Rohan Heath of The Urban Cookie Collective

● 86 Grief

Everything you ever wanted to know about anything, but were afraid to ask...



● 90 End Product

This month: Bassheads, The Drum Club, Ultramarine, Voyager, The Irresistible Force on video and more...

● 93 The Warehouse

How much is a second-hand 303 these days? Find out here...





Volume Ten - Megabass REMIX! Sample CD

Our latest release from leading mixers Megabass, specially designed for professional remixing, megamixing, and DJs in addition to anyone making dance music. Megabass have worked with Madonna, C&C Music Factory, 49ers, Altern 8, The Shamen, Black Box, 2 Unlimited, and many more in addition to their own hits and exclusive mixes for Radio 1, Kiss FM, Capital and the Mastermix DJ service. ■ "...If you're looking for insta loop gratification, stop here...this CD is faultless...It's another dance workstation, but fresher than most, and offers a generous helping of relevant dance/pop/rave crossover ingredients...I enjoyed it immensely, and so will you." - SOS, April 93. ■ "...perfect for the most vicious dance track...there are enough useable samples included on this CD to fit into any kind of track...9/10." - Future Music, April 93. ■ "...it takes something special to stand out...Remix! is something special...inherent versatility which makes Remix! an essential studio accessory...just too funky to ignore...a rhythm track programmers dream...for sample addicts the world over, it's much, much more than a quick fix." - H&SR, April 93. It features Impossible to get ■ Bangs & Whooshes ■ Rave & Techno Samples ■ Massive collection of Vocal Hooks ■ MC Samples & Shouts ■ in-demand raves and rave breakbeat loops to funky and weird loops ■ Plus loads more.



Volume 7 - Neil Conti's Funky Drums from Hell

Prefab Sprout's Neil Conti has provided the groove for such diverse artists as David Bowie, Annie Lennox, Primal Scream, and Thomas Dolby. The combination of funky drummer, top engineer, Daniel Lazerus, and Metropolis' mega-bucks studio has resulted in the most funky, stylised, classy loops ever recorded. ■ "...the playing is immaculate...a controlled looseness in the playing...the snare drum sounds like a snare drum should...Definitely the best live drumming CD." - SOS, Feb 93. ■ "...this compilation represents the coming together of everything that has been learnt about drumming in the last thirty years - live performances, impeccable recordings, skilful tuning and above all, the value of the groove...I can recommend this CD wholeheartedly...If these funky drums are from hell, the Devil still seems to have all the best music." - MT, Mar 93. ■ drums breaks with real attitude sure to become classics ■ specially extracted single hits to customise breaks plus a selection of much sought after hi-hat patterns.



Volume 5 - Pete Gleadall's Samplography

Few artists have influenced the path of modern pop music more than George Michael and the Pet Shop Boys. Whenever those guys go into the studio they take Pete with them. Why? Because he knows what it takes to make a hit single and he has a sample library built specifically for that purpose. This CD features 1400 of his best samples, 'everything you need except loops'. ■ "...the samples of Samplography are fantastic...least and mean...I signed to skip straight to the mix...my genesis was in the studio itself, and it shows." - H&SR, Nov 92. ■ "...Samplography tells the story of 1980s/90s pop music as seen through the eyes of Pete Gleadall...this set is one of the cleanest I've heard." - Future Music, Feb 93. ■ The CD features great synth basses, pads and leads from MKS80's, various Moogs, Prophet V's, etc. but on top of this there are loads of really choice drums and percussion loops, a phenomenal collection of really kicking guitar samples, amazing string sections, brass, gospel choirs, brass, FXs, Sub-basses, and more! There's even a 15 Meg S1000/T100 data section.



Volume 6 - Norman Cook: Skip to my Loops

Aside from being Beats International's main mover, Norman is one of the UK's most successful remixers - James Brown, Fine Young Cannibals, and Double Trouble, to name but a few, have all had the treatment. A massive selection of tempo-grouped, totally pulsating drum and percussion loops project this CD into totally uncharted territory. Loops range from 84 BPM to obscenely fast and are complemented by a sensational collection of vocal ad libs, FX, Basses, Drum & Perc. Hits, Guitar, Reggae, Flute, and Synth samples plus loads more. ■ Over 70 minutes of samples ■ Certainly the classiest dance sample CD - by miles.



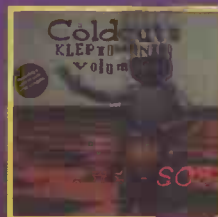
Volume 8 - JJ Jeczalik's Art of Sampling

The Art of Noise virtually invented sampling, this CD gives you access to the sounds that inspired a generation of samplists and placed JJ at the cutting edge of innovative sampling. JJ was also part of the Trevor Horn production team that delivered such masterpieces as ABC's Lexicon of Love and Frankie Goes To Hollywood's Relax and Two Tribes. All the best sounds from JJ's Fairlight libraries are on this CD - over a decade's worth of PROVEN HIT MATERIAL. ■ "For a collection of odd noises and use-able instruments, this CD is ideal...a refreshing change. 8/10." - Future Music, April 93. ■ "Nice to see serious samplists being catered for...seriously classic...classic...well atmospheric...Quirky...Slice Of Sampling History." - SOS, March 93.



Volume 2 - Danny Cummings' & Miles Bould's Rhythm of Life

There's no better percussion CD on the market than this. Danny and Miles have worked with the likes of Tina Turner, PSBs, Dire Straits, The Loved, George Michael, and Julia Fordham plus countless others. They're two of the best there are and this CD's production quality shows them off to their best effect. Don't be fooled, this CD is ideal for almost any music, pop, dance, ambient, new age, it'll add a air of class to anything it touches. You can't be serious and not have this one. ■ "...as good as the best in the Synclavier library...inspirational...It's sonic credentials are impeccable...A connoisseur's product." - SOS, July 92 ■ "The production is superb: the recordings of the different instruments are outstanding and stereo panning is employed extensively...a very classy CD...for those who need access to a library of specialist percussion sounds." - Future Music, Nov 92. ■ Around 55 minutes of percussion grooves ■ Unparalleled performance and recording quality ■ RSS Samples plus Mixes ■ PLUS an extremely comprehensive collection of single hits and Much More!



Volume 4 - Coldcut's Kleptomania!

Coldcut can always be found at the cutting edge of dance music. They launched the careers of International Stars Lisa Stansfield and Yaz. This CD has been widely acknowledged as being one of the most original and inspirational of it's genre. Get this CD and get ahead of the crowd. ■ "Coldcut's samples are nice, slick, and packed into the terraces...the quality of the music is excellent...quite brilliant, and definitely going into my S770...this CD represents another 'must have' for any serious dance enthusiast." - SOS, May 92 ■ The finest selection of ultra-rare loops ever compiled - over 400 unbelievable loops! ■ Male & Female Spoken & Sung Vocals ■ Coldcut's Exclusive - Hed & HPN Samples ■ Super range of mega scratches! ■ Media snatches, FX, Robot Vox ■ Full selection of drum & perc samples ■ Hits, Stops, Breaks, Synth & Bass samples ■ BEYOND DESCRIPTION. HIGHLY USABLE! ■ Over 1165 Samples, Over 73 minutes

Volume One - Pascal Gabriel's Dance Samples

The Hit! And still one of the best. If you haven't got it yet, where have you been? His work with Bomb The Bass, S-Express, EMF, Inspiral Carpets, and many more has established Pascal as one of the UK's most respected Dance Producers. ■ "...putting together a list of the top people involved in dance music, you couldn't leave out Pascal Gabriel...extremely varied and usable...no matter what kind of electronic music you produce you can actually imagine using just about all the samples on this CD." - Future Music, Nov 92 ■ "...house sold dirt...breaks new ground..." - MT, Dec 91. ■ "...off-beat, quite distinctive, and highly usable. Better still you almost certainly won't have heard them before...useful and manageable...a revelation...uniformly excellent." - Future Music, Nov 92.

Volume Three - David Ruffy's Drum Samples

Unlike most drum sample CDs on the market this one sounds contemporary. It also features a great collection of specially recorded loops. Sinead O'Connor, Alien Paris, Alison Moyet, Yaz, Neneh Cherry, and many more have chosen Dave to give them the groove, now you can too. ■ "Recording quality is very spacious and clean...one of the best sounding bundles of rhythms you're likely to hear...should be snapping...system-library sample owners straight away. 8/10." - Future Music, Nov 92 ■ "Recording quality is excellent...patterns employed cover a wide range of styles...He more or less has a beat for all seasons, including emulations of many commonly used breaks, and the samples are copyright free." - SOS, May 92. Over 263 hits and 140 loops, 70-53 minutes. Snare, Kicks, Hats, Toms, and Cymbals. Performance Velocities - 4 of 16! Mixing Variations, Modern Usable Drum Sounds. RSS Samples. PLUS over 140 brand new hot drums loops (too good to sell!) Live & Sequenced Loops! and Much More!

All Producer Series CDs £49.95 each including FREE 'Now' CD!

Call for info on our range of editors, Expansions, & Synth Sounds!

AMG's Galaxy of Stars!

At AMG we don't only get the biggest stars to make you Sample CDs - we get awarded the most stars too! We have had three of our Sample CDs awarded the maximum five stars in Sound On Sound's Sample Shop review pages. And at the time of going to press Neil Conti's Funky Drums From Hell, Coldcut's Kleptomania! and Peter Siedlaczek's Orchestral Sample CDs were the ONLY CDs to have achieved this distinction. Our latest CDs are set to follow that tradition. At AMG we always select the finest exponents of their art. You have a choice, but if you want the best, AMG is your only choice. Exclusive Source for ☆☆☆☆ Samples!

Volume Eleven - Vince Clarke, Lucky Bastard

This collection features new sounds created especially for you using the mountain of classic analogue synths in his Amsterdam Studio. A founder member of Depeche Mode, Yazoo, The Assembly, and now Erasure who better to produce the ULTIMATE ANALOGUE SAMPLE CD? Synths featured include Roland System 100, System 700, ARP 2600, Moogs, SCI Pro One, Greg Pyle Fusion, VCS3, Serge, Obie, Xpander, and more. It features hundreds of constantly evolving synth sequences so you can either grab chunks or extract single sounds for the ultimate in user-defined creative sampling. There's a selection of multisamples along with many samples from Erasure's last 'Phantasmagoria' World Tour. Perhaps one of the most unique features of this CD are the drum loops Vince has created using only synthetic analogue sounds, all the loops are broken down for ultimate flexibility so you can easily create your own custom loops using these unique sounds. Just about every record he's ever done has been a hit, and this is no exception! Demand is bound to be high, so avoid disappointment and place your order now and get this CD before everyone else has it!

AVAILABLE NOW AS A NUMBERED LIMITED EDITION OF 1000

Volume Twelve - Keith Le Blanc's Kickin' Lunatic Beats

This volume sets new standards for drum sample CDs. Although Keith is widely acknowledged as virtually inventing Hip Hop, his work, and this CD, covers a far wider scope. After starting his career as in-house drummer with Sugarhill records, working on such classics as Grandmaster Flash & Melle Mel's 'The Message', Keith has gone on to lay down the beat for James Brown, REM, The Rolling Stones, Annie Lennox, Seal, 808 State, Malcolm McLaren, Bomb The Bass, ABC and many more. He has also moved into writing, production and remixing, working with such artists as Charles & Eddie, Malcolm X, Living Color, The Cure, NIN, and

many more! He also found time create the unique sound of Tackhead with Doug Wimbush and Adrian Sherwood. The superb performances featured on this CD were recorded at Orinoco and Steve Lipson's new personal studio, The Aquarium so, as you can imagine, the recording quality is absolutely state-of-the-art. Aside from tons of choice grooves (all bpm-ed as always), we've included a comprehensive set of matching single hits so you can create your own. Not that there's much chance of you doing that for a while, because after you hear these Kickin' Lunatic Beats you're going to be using them for years to come. Killer Drummer, Killer Studios, and Killer Production. This CD kicks like a mule!

COMING SOON!



Global Trance Mission Double CD Set - Volumes 1 & 2

All Producer Series CDs £49.95 each



**FEATURES NEW SAMPLES!
OUR USUAL HIGH QUALITY!
STILL FREE**

WITH ANY PRODUCER SERIES CD PURCHASE
AMG - ALWAYS FIRST,
ALWAYS ORIGINAL, ALWAYS BEST

MASTERBITS SAMPLE CDS AND DAT-RAMS SPECIAL EDITIONS

BY KLAUS SCHULTZE (£75) and the superb ORCHESTRA CD (£65)
CLIMAX COLLECTION - £45
1 - Vocals 2 - Classic 3 - Guitars 4 - Grooves 5 - Violin 6 - Sax (£59)
SAMPLING COLLECTION - £35 each
500 - 600 - 700 - 800 - 900 - 1000+ (£45)
PLEASE CALL FOR FULL DETAILS

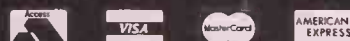
MANY OTHER CDS AVAILABLE FROM AUDIOQUEST, MCGILL, ETC.
PLUS EXPANSIONS FROM MUSITRONICS AND EMC MUSIC SOFTWARE

PLEASE CALL FOR MORE DETAILS OF ANY CD OR TO REQUEST A COPY OF OUR FORTHCOMING CATALOGUES



0252 717333 Fax 0252 737044

Please send cheques or postal orders and although orders are usually completed within 7 days, 2 days for credit card orders. Or order by phone using:



All trademarks are the property of their respective holders. Because of the copyable nature of most of our products all refunds/exchanges are at the discretion of AMG. Any person found using pirated versions of any of our products will be pursued to the fullest extent of the law. Producer Series and The Sound Foundation are trademarks of AMG. All prices and specifications are subject to change without prior notification. © 1993. Trading address, no visitors without appointment - 70 Broomfield Road, Farnham, Surrey

Send to: AMG, PO Box 67, Farnham, Surrey GU9 8YR, England

Please rush me the following items (credit card orders usually shipped same day):

Quantity	Description	Unit Price	Total

Please send me a FREE copy of 'Now that's what I call Sampling!' in respect of above order.

Mr/Mrs/Ms* Initials..... Surname..... Order Total:

Address..... Signature:

Postcode..... Tel./Fax

I enclose a cheque/Postal order* for £..... payable to 'AMG' or please debit my credit card:

Access Visa Mastercard Amex / / Exp:

All prices include VAT, Add £1 for delivery on single items. Overseas prices are the same as UK. * Delete where applicable.

All stock items are despatched same day on credit card/PO orders. Allow 7 days for cheque clearance.

Phone Orders: Call 0252 717333 or Fax 0252 737044



If you're into the idea of adding a MIDI-controlled automated lightshow to your musical show, BCK Products can now supply you with an eminently affordable MIDI-to-light controller.

'Lite' up the show with MIDI

The LiteShow is a compact integrated controller which can convert MIDI data into signals for controlling 8 x 300-watt lamp outputs. Working on the same principle as MIDI drum parts, the unit responds to individual note numbers, eg. note number 60 controls lamp 1, note number 61 controls lamp 2 etc. Lamp brightness is governed by note velocity, with 64 steps of intensity to ensure smooth fades.

The LiteShow also contains 80 preset lamp 'scenes', including dynamic chases and fades, which can be called up using MIDI patch change numbers. Clearly, the possibilities for use with MIDI sequences and programmable auto-accompaniments are many and varied.

The LiteShow doesn't require further light mixers or fader units; all you have to do is plug a MIDI cable from your sequencer's MIDI Out to the LiteShow's MIDI In, connect up to eight 300-watt bulbs to the industry-standard multi-pole outputs, and away you go.

Oh yes, the price: just £199.99 including VAT.

More from: BCK Products, 136 Hornchurch Road, Hornchurch, Essex RM11 1DP, Tel: 0708 448799, Fax: 0708 446765.

Producer CDs to CD-ROM

AMG have just announced a set of CD-ROMs based on their popular Producer Series of sample CDs. The first batch includes Danny Cummings' & Miles Bould's Rhythm Of Life and Neil Conti's Funky Drums From Hell. They are available for the Roland S-700 series now and will be out for the Akai sampler series within a few months. Prices vary from £149 to £225, and there are also bundle options available.

More from: AMG, PO Box 67, Farnham, Surrey, GU9 8YR, Tel: 0252 717333 Fax: 0252 737044



Rhythm of Life and Drums from Hell, now on CD-ROM



Spawny get

Amid the customary fanfares, the winner of August's Wavestation SR competition was drawn from a pile of thousands. Lucky bast... er, winner Ian Colvin from Stanmore, Middlesex will receive a Korg Wavestation worth stacks – all for the price of a stamp.

The answers to the competition were:

1. The wavestation is 1U high
2. The Korg M1 shares its name with a famous motorway (well, the M1 bit anyway)
3. The X3 is Korg's newest workstation.

Easy huh? If you think all this is a hoax, look out for pics of Ian being presented his new toy in the next issue.

Roland's price reduction



It's not all gloomy news on the economic front. The pound is apparently doing quite well against the lira, and this has led to all Italian-manufactured Roland products being reduced in price by up to 25%. Products affected are the DJ70 sampling workstation (now down to £1595 from £1839), the E-series of home keyboards, the A30, the ST50R and ST100DR guitar combos and the PC200GS keyboard.

More from: Roland, Rye Close, Ancells Business Park, Fleet, Hampshire, GU13 BUY, Tel: 0252 816181 Fax: 0252 812692.

Roland DJ70: cheaper stock from Italy

A case in point

Fed up with lugging equipment around in cases that are heavier than the equipment? Or is your gear outgrowing your racks? CP, with their lightweight expandable case, could have the answer to your prayers. Just launched is a low-cost 19" rack case for lighting engineers,

musicians and DJs. The EMS Modular Rack Case grows upwards in unit size, by the simple addition of side panels. The Cases come in 3, 6, 9, 12 and 15 unit heights. The 3U rack comes assembled; the larger racks come flat-packed for DIY construction. Modular panel kits (in multiples of 3U) can be added when needed to accommodate additional 19" equipment. Butterfly catches and sprung handles are

already fixed, and bolt-on wheelboards, corner bumpers, stacking feet and a small mounting kit for mixers can also be added. Described as lightweight and sturdy by its manufacturer, the EMS retails for £93.50 (inc VAT) for the 3U and £117.00 (inc VAT) for the 6U.

More from: CP, Worton Hall Industrial Estate, Worton Road, Isleworth, Middlesex, TW7 6ER, Tel: 081 568 1881, Fax: 081 568 1141.



The tidy alternative

If your studio looks like a bomb has hit it – speakers lying around on the floor, modules stuck on rickety shelves and computer monitors balanced precariously on thick books – you may be interested in a new high-tech furniture product from Strata and Counterpoint.

The Computer Music Workstation has been designed especially for the music industry and education. It has a 4-way mains splitter attached, and braked castors, so that the whole system can easily be moved by removing just one plug. It also has a cable management tray under the rear work surface to keep the workstation tidy.

More from: Strata, Airfield Industrial Estate, Warboys, Huntingdon, Cambs, PE17 2SH, Tel: 0487 823482 Fax: 0487 823746.

The Counterpoint Music Workstation for all those non-rackable parts

More for less from Time+Space



As well as releasing two more sample CDs this month, Time+Space are also reducing the prices on two existing ones.

Killer Horns, the first of the new releases, was put together by Best Service in Germany and features bandleader and studio professional Albie Donnelly. The CD includes many riffs, licks, stabs, falls and swells and includes a variety of sax, trombone and trumpet sounds. The CD costs £49.95 and there's also a CD-ROM version at £139.



The two latest from Time+Space

are covered, and for a limited period the CD will come with a floppy disk containing the MIDI files that make up the loops on the CD. It costs £54.95.

The price reductions apply to the X-Static Goldmine and XL-1 double CDs. Both have been reduced to a highly attractive £49.95 each.

More from: Time+Space, PO Box 306, Berkhamsted, Herts, HP4 3EP, Tel: 0442 870681, Fax: 0442 877266.

The second release is Percussion Incognito by DNA featuring Armando Borg. A wide variety of percussion and tempos

Chronologie Quiz winners - MT 82

David Langley, Orpington; Kendal May, Faversham; Jon Corlett, Birmingham; Ruth Rowlinson, Tooting; Andrew Beckett, Middlesbrough; Mrs C. Harrison, Nottingham; Robert Dyer, Oxford; Tomas Mulcahy, Cork; John Moore, Upminster; Mr S. Robertson, Dundee; Mr R.D. Chmura, Isle Of Wight; Jonathan Ewing, Basildon; Georgina Molloy, Nottingham; Simon Arnold, North Ascot; Ben Howes, Godalming; S. Graystock, Wakefield; Joy Spence, Oldham; Eric Staverley, Brighton; Paul Thinkwell, Truro; Mr S. Scott, Glasgow. **Answer: La Defense**

Educating teacher

Yet more music technology courses for teachers.

Are they really that far behind?

Counterpoint have just released details of this year's courses in computer music. They have been running the courses for more than three years, and last year ran more than 20 for around 125 teachers. Autumn Term Courses are running at Gatwick, Swindon, Cambridge and Exeter, and include training in Notator and Cubase.

More from: Counterpoint, Sea Court, Jefferies Lane, Goring-by-sea, West Sussex, BN12 4PS, Tel: 0903 505781 Fax: 0903 700882.

Doctor T revives distribution

Following the collapse of Zone Distribution, Doctor T's Music Software have appointed Key Audio Systems as UK distributor for their professional and amateur music software and hardware for the Atari, Mac, PC, Amiga and Falcon platforms. Avalon Music Developments have also been called in to coordinate the technical support for the Omega II MIDI Composition System.

Omega II combines drum machine style recording, graphic note and song editing, MIDI mixing, MIDI machine control

and music notation and printing in one package. Other features include 48 tracks with 126 Sequence segments/patterns, real-time graphic editing and a multi-program environment. The package now runs on the Atari Falcon 030, ST, Mega and SE.

All present users of Doctor T products are being encouraged to contact AMD to confirm their name is entered in the UK database.

More from: AMG: Tel/Fax 081 699 7004; Key Audio Systems: Tel: 0245 344001, Fax: 0245 344002



Good evening in Tower Hamlets

Tower Hamlets Community Education in East London is just about to start a Music Technology course aimed at 14-25 year olds. The course is based around Cubase, the S950 sampler, a Roland D10 and other keyboards, a Spirit Folio mixer, Technics turntables, outboard gear including Aphex, and mastering on DAT. So far, the course is planned for one evening in the week with the possibility of more depending on uptake. The course costs £21 per half-term (£3.15 for unwaged).

More from: Rikki Blue, The Woodseer Music Project, The Academy, 25-33 Woodseer Street, London, E1 5HA, Tel: 081 888 6896.

No audio cards required

OSC, the collective of music and post-production professionals based in San Francisco, have released Deck II software which provides four tracks of CD-quality direct-to-disk recording and visual waveform editing on the Apple Mac Quadra 840AV and Centris 660AV.

Since its introduction in 1990, Deck has been used extensively for music recording, multimedia, video and broadcast production.

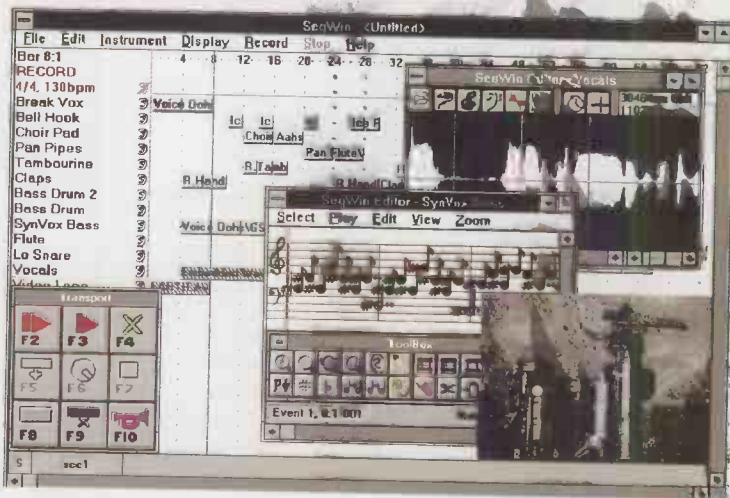
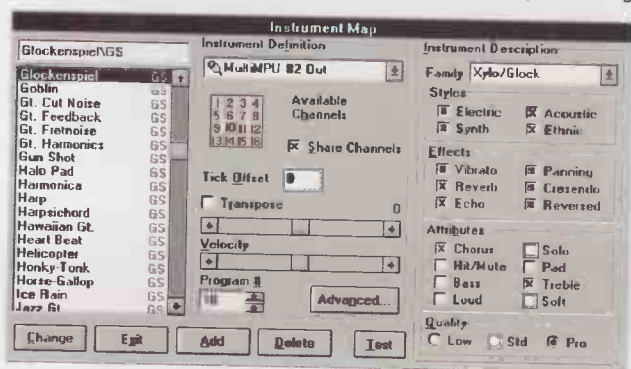
More from: OSC, Tel: 010 1 415 252 0460, Fax: 010 1 415 252 0500.

SeqWin direct

Lowrie Woolf Associates (LWA) are now distributing their SeqWin sequencer directly. The sequencer runs on a PC under Windows 3.1. Version 2 (of the sequencer) is now available along with SeqWin MultiMedia. With the latter, it's possible to loop, trim and clone multimedia sequences as well as record vocals in real-time while the SeqWin plays the multimedia part. LWA are asking existing users to contact them to make sure they get the latest support and upgrade information.

More from: LWA, Spirella Building, Letchworth, Herts, SG6 4ET, Tel: 0462 484707, Fax: 0923 265020.

SeqWin up and running



'Ello, 'ello...

Yamaha have just launched Hello Music, a dedicated music hardware and software package aimed specifically at the computer user.

They have been producing dedicated PC-compatible sound cards for some years now, and the Hello Music package features the CBX-T3 GM tone generator (which incorporates a built-in MIDI port), plus software including Cubase Lite, Steinberg Musicbox,

20 MIDI songs and a tutorial disk. The CBX-T3 module features an AWM tone generation system which includes 192 instrumental voices and 10 drum and percussion kits.

Hello Music retails for £399.

More from: Yamaha-Kemble, Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, Tel: 0908 366700, Fax: 0908 368872.



Hello to Hello Music from Yamaha

Finale support

Users of the Coda FINALE music processing program for the MAC and PC now have a support service available to them from a company called New Notations.

Subscribers to the FINALE support system can get support in several ways - a telephone support line, instant analysis and response to faxed queries; and tutorial/workshop sessions which cover specific areas in greater detail.

A year's subscription costs £175, with a concessionary price of £116 for Certified Academic Version users.

More from: Andrew Aird or Stephen Ferre at New Notations, Tel: 081 871 5193, Fax: 081 877 3494

THE ONLY MIXERS WITH RUGGED CUTS TO STRIP IN PUBLIC.

We specialize in mixing boards so that we can be maniacally meticulous about details others overlook. Some details help make the CR-1604 and MicroSeries 1202 unusually rugged and reliable. Others contribute to our mixers' excellent sound quality. And some, like our unique gain architecture and mix amp topology aren't really details at all, but rather represent a fundamentally better way to mix music.

TRIM matches any signal from instrument levels to -10dBm to semi-pro to +4dBu pro gear.

7 SENDS via 4 knobs with plenty of gain above unity for special effects and center detent, all unity gain, and **4 STEREO AUX RETURNS** with super-high headroom, low noise and enough gain to work with all gear.

STEREO IN-PLACE SOLO maintains stereo perspective for all soloed channels & returns.

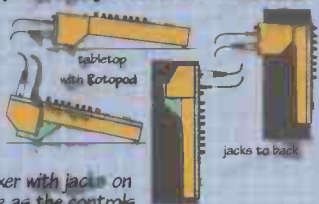
MUSICALLY USEFUL EQ.

We're amazed at how many users tell us that our 80Hz, 25kHz and 12.5kHz turn-over points and EQ circuit design not only sound sweet but in some cases have replaced outboard equalization.

BUS 3&4 ASSIGN extends the CR-1604's usefulness without increasing overall size.

UNITY PLUS special-taper faders with 0dB gain at center detent minimize noise, maximize headroom, provide 20dB more gain above unity to reduce constant trim re-adjustment as input levels change (and the MS-1202's rotary channel and master controls work the same way).

CR-1604 MULTI-CONFIGURATION. Only fanatics would devise a way to use the same mixer in four different physical configurations as a rack-mount mixer with jacks to back that takes up only 7 rack spaces, a tabletop mixer with jacks out, or a tabletop/rack-mount mixer with jacks on the same plane as the controls (by adding our RotoPod bracket). Conversion between configurations takes just a few minutes and a screwdriver (other tricks are optional).



BETTER-THAN DIGITAL. Both the CR-1604 and MicroSeries 1202 deliver -90dB S/N ratios with 100dB dynamic range (versus digital with -90dB S/N and 90dB dynamic range) and have, in fact, been used to record and mix down major label compact disc releases! A prime example of the fanatical engineering that goes into our mixers (and the fanatical confidence professionals have in them). No wonder we differ so vastly from mixers that merely masquerade as Mackies.

MAJOR RELIABILITY PROBLEM IN MANY CONVENTIONAL MIXERS. Plus, our exclusive energy-absorbing knob design transfers vertical impact away from pots and main board, greatly reducing possible damage.

MACKIE FANATICAL ENGINEERING PART 1

STUDIO GRADE MIC PREAMPS.

Only the CR-1604 and MS-1202 incorporate discrete, large-emitter-geometry transistor preamplifiers instead of just simple ICs. That's why only our mic preamps deliver -129dBm E.I.N., 0.005% THD, yet can handle +14dBu max inputs. You get all the punch & delicacy of expensive studio mixing desks.

LARGE INTERNAL POWER

SUPPLY provides power for +48V phantom mike power, 12V BNC lamp socket, and bi-polar power for main circuitry, hi-output headphone amp and sophisticated enhancements such as the XLR10 mic preamp expander. Our supply not only eliminates inconvenient "wall warts & line lumps" but gets rid of their hum-inducing magnetic fields, too. They're typically driven into non-linearity (15 kilo Gauss or more) causing stray 25-35uV magnetic fields that are easily picked up by shielded audio cables. Our oversized, instrumentation-grade transformer loafs at 10 kilo Gauss, reducing stray fields to under 1uV for quiet operation.

GNARLY CIRCUIT BOARDS. Unlike brittle phenolic, the CR-1604 and MS-1202's horizontally-mounted, double-sided, through-hole-plated fiberglass boards and rigid, multi-point suspension prevent damage from external impact.

MIX AMPS WITH TWICE THE HEADROOM. Signals from all inputs simultaneously converge here. Conventional mix amps can overload and distort when you start pouring on the channels. Our gain structure solves the problem for audibly better sound. Crum every input of the CR-1604 or MS-1202 with hot signals and they still have more headroom than other mixers running half the inputs.

ULTRA-DENSE CIRCUIT TOPOLOGY. Unlike budget mixers which cut corners with passive circuitry, we added input and output buffers so the CR-1604 and MS-1202 are compatible with a much wider range of devices.

COLD ROLLED STEEL CASES

Silky smooth SEALED ROTARY POTENTIOMETERS prevent contamination from dust, smoke, liquids and are CO-MOLDED without use of easily shattered phenolic mechanical parts (a)

THE SWEET SPOT IS IN A SWEET PACKAGE. Our 12x2 MicroSeries 1202 includes the same phantom powered mic preamps, superb specs, internal power supply and rugged construction in an ultra-compact mixer at a great price. A perfect "starter mixer" for MIDI suites, video sound mixing or small group stage work, the MS-1202 is also a serious addition to any audio professional's tool kit. It's perfect for submixes into larger boards, as an impedance matcher or as an extremely high quality microphone pre-amplifier. The MS-1202 includes 4 phantom-powered mic inputs with the same circuitry as the CR-1604, 4 bal./unbal. mono inputs, 4 stereo inputs, 2 aux sends/ch., 2 effects returns, channel patching, 2-band EQ, headphone monitor w/level control & three-way, 12-LED peak meter display to monitor stereo output, mic input levels & line input levels - yet takes up just 1/10th of a square meter of studio space!

MACKIE.

KEY AUDIO SYSTEMS, LTD UNIT C, 37 ROBJOHNS ROAD CHELMSFORD, ESSEX CM1 3AG TEL 0245 344 001 FAX 0245 344 002

OTTO-MIX
FADER AND MUTING AUTOMATION
FOR THE CR1604
NOW AVAILABLE.
(RETRO-FIT IN MINUTES)

Expanding SAE

The School of Audio Engineering is continuing its expansion with the purchase of three new Sony multitrack tape recorders and 10 SoundTools II digital hard disk studios. Their courses aim to train graduates in all aspects of sound engineering, "not just how to operate a recording studio". With this in mind, they take students to 'locations' and involve them with musicals such as the John Lennon tribute *Glass Onion*. Their operation is not just limited to their London base - if you're thinking of emigrating, they have colleges in Hamburg, Paris, Melbourne and Kuala Lumpur.

More from: The SAE, 071 809 2653.

HBB secures more DATs

DCC and Minidisc may well be the latest fashion for domestic players, but DAT is still hanging in there in professional circles. The search for suitably specified professional DAT machines is getting tougher, but fear not: London-based HBB Communications is taking delivery of a supply of Aiwa XD-S1100 DAT recorders. The S1100 features a reinforced double construction chassis with increased anti-vibration insulation, a 3-motor drive mechanism, full digital I/O, 1-bit digital audio converters and wireless remote control.

More from: HBB, 73-75 Scrubs Lane, London, NW10 6QU, Tel: 081 960 2144, Fax: 081 960 1160.



In stock: the S1100 from Aiwa

10TH ANNIVERSARY



**YOUR MUSIC
LET'S DO IT!**

SEPT - OCT '93

MUSIC INDUSTRY
PRODUCTION
AND TRAINING

AT COMMUNITY RATES
CALL 071 608 0231

ISLINGTON MUSIC WORKSHOP (EST 1983)
44 PEARTREE STREET, LONDON EC1V 3SB

IMW IS A REGISTERED CHARITY
FINANCIAL SERVICES BY
APPL

ISLINGTON COUNCIL

CRIPPLEGATE FUNDATION

Dance musicians on course

The Islington Music Workshop has set up a starter course for all dance music fans - from ragga to rap, from techno to bhangra. The course covers computer sequencing, sampling and an introduction to MIDI and programming. It costs £29.38 (unwaged), £64.63 (waged) and £47 (Islington residents).

More from: IMW, 44 Peartree St, London, EC1V 3SB, Tel: 071 608 0231.

Ministry of Soundvision

Soundvision Professional Sound & Lighting will be presenting a product demonstration at the Ministry Of Sound club, Gaunt St, London SE1 on the 17th October. There will be in excess of 20 sound and lighting companies attending.

Soundvision see it as "a unique opportunity for the mobile disc jockey to meet the leading name manufacturers and national distributors of the top of the market - all under one roof and to demo 'hands-on' style at the same time".

There will be special appearances from DJs Carl Cox, Jumping Jack Frost, Paul (Trouble) Anderson from Kiss FM and Justin Berkman, resident DJ of the Ministry.

For more information on the event call: 071 281 8121.

A successful decade at the IMW

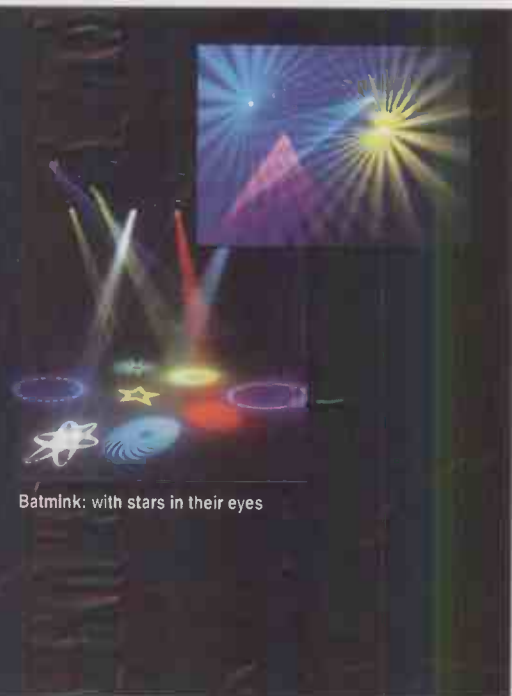
Smoke and mirrors

Clubtech company Batmink Ltd launched a number of new lighting and smoke products at the recent PLASA Show. The Lampo low-smoke machine is the first smoke generator to produce a low-level sea of smoke without the need for dry ice and a heavy refrigeration plant. Working on the principle of combining two fluids, the Lampo can cover an area of 150 metres in 30 seconds. Patents have been obtained for the fluids, and the machine has passed all necessary EC regulations on safety. If low-level smoke is what you want, the Lampo will cost you £1111 plus VAT.

Other new products include the Lamp

Columbus projector featuring eight colours, eight interchangeable gobos, variable strobing and blackout (£985 plus VAT for the Halogen 650-watt version, £1260 plus VAT for the MSR400 version) and the Griven Smile, which features an 800-watt Roundlux lamp reflected on five flat mirrors to produce five static cones of light and five moving cones which are animated to the beat of the music (£866 plus VAT).

For more information contact: Batmink Ltd at Glastonbury Warehouse, Silver Street, Glastonbury, Somerset BA6 8BT, Tel: 0458 833186/835451



Batmink: with stars in their eyes

LONDON MUSIC SHOW

**Hear ye!
Hear ye!**

**It's another
MT Demo
Forum...**

This year's London Music Show at Wembley Conference Centre will be the biggest so far, with more exhibitors, performances and guest appearances than ever before. *MT's* presence will be underlined by a special MIDI Village, showcasing the very

latest in high-tech musical products and offering you the chance to get those hands on. And with live appearances from the country's top techno acts there promises to be a great atmosphere and much to savour. The show takes place on Saturday 27th and Sunday 28th November.

Once again, *MT's* Demo Forum will be happening on each day of the show, with a celebrity panel from the world of high-tech music assessing your best efforts on tape. So the time to get those tapes in is **NOW**. Five will be selected for each day, and those responsible will be invited to the show as our guests. Send them to: Demo Forum (LMS), MT, Alexander House, Forehill, Ely, Cambs CB7 4AF.

Seeding the future



If you want to experience what all this multimedia/desktop video/virtual reality/cyberwotsit stuff is like in the flesh, so to speak, be sure to get along to Bagley's Studio in York Way, London N1 (an old industrial site round the back of King's Cross station) on Friday 8th and Saturday 9th October. If you do, you'll be in on the launch of a regular monthly 'cyber-club' called Cyberseed.

Billed as "Britain's first cyber-festival", Cyberseed aims to draw together state-of-the-art virtual reality systems, computer graphics, film SFX, cyber art, electronic gaming systems, comix, cyber groups, robots and cyber fashion. According to organiser Brian Davis, you can expect "a mind-blasting fusion of street art and computer artists drawn from ex-Mutoid Waste Company, Hex, Trip Media, Zap Factor and others, plus video scratch artists, electrifying performance and the leading edge of TV, commercials and animation production plus a visionary mix of ambient trance and hard-dance, cyberdelic bliss". Phew.

Banks of monitors and projectors and a video wall will present computer graphics and experimental film, plus real-time animation, VR, CD-i, video effects and manga movies. Hex and other video artists will be in effect to provide live video mixing. Also promised are desktop VR systems, VR immersion systems with the latest virtual reality games, and interactive furniture and sound sculptures. Sound systems and live music are also on the menu, with cyberpunk group Antibody playing each night accompanied by "giant robots thrashing throughout the club" (!). And if you want to take some of this experience away with you, specialist stalls will be displaying the latest in cyberpunk fashion, brain machines and cyber tapes, toys and videos.

Cyberseed, it seems, has it all - even William Gibson will be putting in an appearance - and on the second day you can expect to have a close encounter with some cybersex!

Now for some cyber fax: times are 8pm-6am on both Friday and Saturday, and the admission charge is £15 per night. Daytime exhibition workshops are also planned. You must be aged 18-plus, and the dress code is "Go Cyber"!

More from: Brian Davis, Tel/Fax 081 444 9600.

The Otari Digital Audio Recorder



New DAT from Otari

Following the successful DTR-90 DAT recorder, Otari have produced the DTR-7 Digital Audio Recorder, available from Stirling Audio Systems Ltd. Aimed primarily at the professional market, the DTR-7's features include XLR connectors, selectable 48/44.1/32 kHz sampling frequencies, wireless remote control, and EIAJ/DAT format to assure compatibility with other machines. It is 19" rackmountable and has a 3U rackmount adaptor.

The DTR-7 is described as ideal for studio sub-master use and costs £1299.

More from: Stirling Audio, Kimberley Rd, London, NW6 7SF Tel: 071 624 6000, Fax: 071 372 6370.

A well packed MaxPak

Version 2.0 of Arbiter Pro's MaxPak is now available with five pieces of MIDI software, including the SeqMax windows sequencer, the LibMax librarian, TapeMax, MixMax and JukeMax for gigs and karaoke. No MadMax, though...

Arbiter believe the new version will assume the flagship status previously held by Cadenza for Windows.

More from: Arbiter, Wilberforce Rd, London, NW9 6AX, Tel: 081 202 1199, Fax: 081 202 7076.

CALL US IF YOU WANT TO



TASCAM
4 - 24 Track
All available

TASCAM DA88

A superb digital 8 track system. Using the Hi-8 tape format. Come and compare the systems and let us help you choose the best for you!



TASCAM DA88
NEW Digital 8 TRACK
NOW IN

MUSIC CONNECTIONS

DAT RECORDERS

BEST DEALS - INSTANT DESPATCH SONY DTC 750 - BEST DEAL - SONY DATMAN - EPHONE
ALL IN STOCK - BULK DAT TAPE CASIO DAT - EPHONE - NEW TASCAM DA-30 & DA-20

The **SOUNDTRACS**
Solo MIDI Console



MULTI-TRACK RECORDING

The UK's ONLY Specialist Midi & Recording Chain

WE WILL MAKE SURE YOU GET THE BEST DEAL POSSIBLE.
ALL ACCESSORIES IN STOCK - PATCH BAYS, MONITORS, POWER AMPS, SIGNAL PROCESSORS, WIRING LOOMS, GRAPHIC EQ'S, EFFECTS, MICS, DAT MACHINES, TAPE, DE-MAGNETISERS.

NEW MACKIE 12-2 CD QUALITY MIXER
ONLY £355 INC VAT



UPGRADE YOUR MIXER TO DIGITAL QUALITY WITH MACKIE

MACKIE CR1604
Mixing Console
Perfect for digital recording
ONLY £899



TASCAM DAP20
Portable DAT
£ CALL



IT'S HERE!

The NEW Sony Portable Minidisc Digital Recorder

RECORD UP TO 50 MINS OF DIGITAL QUALITY AUDIO ONTO ONE CONVENIENT MINI DISC. RE-RECORD ON THE SAME DISC THOUSANDS OF TIMES - WITHOUT LOSS OF QUALITY!
£Great Price

MONITORS
TANNOY, JBL
YAMAHA & TEAC
POP IN & try them!!!

NEW SONY DTC P7
DAT RECORDER
£399

NEW MACKIE Recording Consoles! Digital Quality!
MACKIE 16-8-16 • MACKIE 24-8-16
MACKIE 32-8-16
PERFECT FOR ALESIS ADAT
'Optional Midi Automation'



MICROPHONES

New AKG Tri-power mics
Full AKG range Audio Technica, Shure & many others

GREAT SELECTION OF MULTI-TRACKS

▶▶▶▶ Fostex • Tascam • Yamaha ◀◀◀◀

FOSTEX X-18, X-28 & 280
TASCAM PORTA 03/05 424, 464 & 644



VERY BEST DEALS



COME AND TRY
The FOSTEX G24S
24 Track
ALL ALESIS & ART FX
IN Stock
LOWEST PRICES

FOSTEX MULTI-TRACK EXPERTS!

WE STOCK the full range of FOSTEX recording equipment so whether you require Porta Studios or 8/16 Track packages GIVE US A CALL.....!

Why not Pop in and see the exceptional R8 and MTC-1 combination. Giving you full transport control via your Atari sequencer all running at 15IPS..! with Dolby 'C' noise reduction, your recordings will be quiet too!

ALSO in stock is the 812 mixing console forming the perfect compliment for the home studio set up.

ALTERNATIVELY for the Professional Package check out the stunning G16/G24S Multi-tracks incorporating Dolby 'S' noise reduction..!

NEW FOSTEX MIXTAB IN STOCK

DRAWMER CENTRE

ALL THE BEST DRAWMER GATES & COMPRESSORS
IN STOCK



EFFECTS UNITS

BOSS CE50 • YAMAHA FX500 • ART LT • ART MULTIVERB III • ALPHA • BOSS SESO • ALESIS MICROVERB 3 QUADRAVERB PLUS • MIDIVERB 3 QUADRAVERB GT • EMP100 • SPX900 • ZOOM 9030, 9002 • YAMAHA FX 900 • LEXICON • ALESIS 3630



MAIL ORDER
INSTANT DESPATCH

MUSIC CONNECTIONS

Chelmsford
0245 354777

SAVE

FREE

SOON!

The **NEW**
Atari Falcon
MEGA Computer
8-channels of digital audio
CALL US NOW FOR INFO!!

LA AUDIO

COMPUTERS & SOFTWARE



MIDI MUTE

The Midi Mute allows automatic muting of up to 32 channels usually found on a mixing desk, but also for use in keyboard setups and live installations. Voices which can then be played back via any Midi sequencer or it's own internal patch memory in a full high 19" rack mounting package.

Muting functions are controlled very easily from the front panel by utilising the 32 channel mute (on/off) keys which will automatically send midi note on/note off information to your sequencer or alternatively the Midi Mute has a full 128 patch set-up memory allowing complete patches to be stored internally and then triggered internally at the touch of a single button or via an external Midi source.

MEGA Deal SAVE £300
ONLY £299
Inc VAT



CLASSIC COMPRESSOR

For AROUND **£899**

10 FT 8-WAY LOOMS, IDEAL FOR TIDYING UP KEYBOARD RECORDING SET-UPS

CHOICE OF:
Jaguar Mono 8-way£3
Jaguar Stereo 8-way£3
Phoenix Mono 8-way£29.50



MULTI GATE

Multi Gate is a 16 channel full function audio noise gate in a rackmount case which has been designed to enhance the dynamic performance of any system in a studio or live environment. The Gates provide clean and quiet operation while being sensitive enough to capture the fastest transients with no noticeable loss as well as being very chatter resistant.

PLUS Loads of EXTRA Features £899

NEW LA AUDIO 4 X 4

Four Channel Compressor/Noise Gate/De-Esser Red Hot - Best of its Kind!!!!



Great new LA Audio 4 X 4 Four Channel Dynamics Processor 19" Rack Unit. Features include 2 independent frequency conscious Noise Gates with an extremely fast 5 Microsecond attack time with special 'Auto Attack' function, plus 2 independent Compressor/Limiters which can also operate as 'de-essers'. Giving a total of four completely independent audio channels.

Typical 4 Channel setups possible:
a. 2 x Frequency Conscious High Speed Gates + 2 Compressors
b. 2 x High Speed Gates + 2 De-essers
c. 1 x High Speed Gate + 1 x Frequency Conscious High Speed Gate + 1 De-esser + 1 Compressor

In two channel mode several processors can be chained together for in line use, plus full stereo linking is also available.

GREAT VALUE only £349 inc VAT
AB 200 POWERAMP £299



1 rack space height • Dual stereo bass outputs • Forensic • Formerly 101dB unweighted noise figure • Signal presence & clip indicators • Operation • Maintenance free convection cooling

ALL ZOOM EFFECTS NOW IN STOCK

TAPE

AMPEX TAPE • DAT TAPE • CASSETTES ALWAYS IN STOCK

ALL THE BEST SOFTWARE
NOTATOR, CREATOR, CUBASE EDITORS + COMPUTERS

TRY THE ROLAND COMPUTER PERIPHERALS

ALL THE LATEST SOFTWARE AND COMPUTERS AT BEST PRICES
LET US HELP YOU CHOOSE A PACKAGE OR BUY SEPARATELY.
ALL IN STOCK
ATARI 1040STE COMPUTERS
ATARI S/M124 • S/M144 MONITORS
C-LAB
CREATOR V3.1 • NOTATOR V3.1
CREATOR 8 • NOTATOR UPDATE KITS
UNITOR II • HUMAN TOUCH • ALPHA NOTATOR
EXPORT • AURA • MIDIA •
STEINBERG
CUBASE V3.0 • CUBEAT • ALL LATEST VERSIONS
APPLE MACINTOSH SOFTWARE
OPCODE VISION • MOTU PERFORMER • STEINBERG CUBASE • MOTU
COMPOSER • APPLE MAC HARDWARE • MOTU MIDI TIME PIECE • MOTU VIDEO
TIME PIECE • MOTU MIDI MIXER • JL COOPER SYNC-LINK • JL COOPER MAC
NEXUS • C-LAB UNITOR 2 • STEINBERG MIX6+



OTHER SOFTWARE
AKAI S1000/S1100
Panel Partner
Now you can edit your Akai sampler from your Atari
£DEAL!!!

IBM PC MIDI SOFTWARE CENTRES

COME AND TRY IBM PC MUSIC SOFTWARE IN ALL OUR STORES!
IN STOCK AND ON DEMO
CAKEWALK PROFESSIONAL
256 Track midi sequencer for Microsoft Windows 3.1
STEINBERG CUBASE for WINDOWS
+ PC MIDI INTERFACES

The New SeqWin Windows Software £99



OUR PRICES WILL ALWAYS BE THE BEST

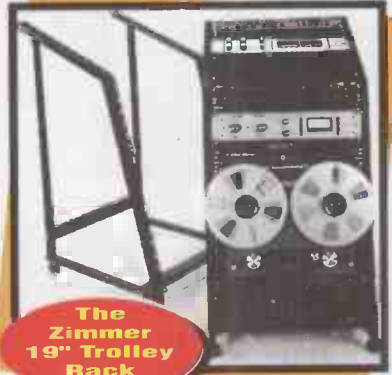
STEINBERG & IMAGIC SOFTWARE EXPLAINS



C-LAB STEINBERG MOTU • OPCODE ATARI • MACINTOSH

NOTATOR CREATOR UNITOR £BEST

UNIVERSAL 19" RACK TRAYS - £25



The Zimmer 19" Trolley Rack

ONLY £79

R2 D2 rack ONLY £55

Offering a total of 13U space, the R2D2 will accept the majority of 19" rack mounting 8, 16 & 24 track machines currently on the market as well as most of the older ones

NEW BIRMINGHAM SUPERSTORE NOW OPEN

Tel 021 212 4777

ALESIS A-DAT

We have already sold loads of these!
Superb quality and reliability
Come and see us for a DEMO and a great deal

NEW SOON

BRC - Remote Synchroniser for A-DAT
Around **£1595** inc VAT

BEST PRICES ON ALL ALESIS EQUIPMENT

LEXICON IN STOCK!!!

Try these great reverbs
Choose from LXP-1 LXP-5 or LXP-15



TRY THE NEW G2 AND BIG BOTTOM AURAL EXCITER

DAT TAPE

ALWAYS IN STOCK AT BULK DISCOUNT PRICES

NEW APHEX

Chelmsford Southampton Birmingham

071 731 5993 0703 233444 021 212 4777

ALL PRICES INCLUDE VAT OPEN 6 DAYS A WEEK NEXT DAY DELIVERY

THE UK'S ULTIMATE RECORDING

We are probably the largest suppliers of samplers!

••• GREAT EXPERTISE •••
••• BEST PRICES •••

You will always **SAVE MONEY** with

MUSIC CONNECTIONS

Data Storage & Sequencer File Player

ALESIS DATADISK



SAMPLERS



AKAI S2800 • AKAI S3000 • AKAIS2200 • AKAI GD3000 • AKAI S950 • AKAI S1000 • AKAI S1100 • ENSONIQ EPS 16R+ • ENSONIQ EPS 16+ • KEYBOARD 8 EMAXII • NEW ROLAND S750 • BIG LIBRARIES

THE ENTIRE RANGE OF AKAI SAMPLERS NOW AVAILABLE

VERY BEST DEALS ON - AKAI - ENSONIQ - ROLAND - SAMPLERS

SUPERB LIBRARIES!

MEMORY BOARDS

*S1000/S1100 8MEG BOARDS • S1000/S1100 • 2MEG BOARDS • S950 750 KB BOARDS • S1000 • SCSI INTERFACES • EPS 16+ 1MEG UPGRADES • EPS 16+ • FLASHBANK • HARD DRIVES

BRILLIANT NEW AKAI S01 Sampler NOW IN STOCK



NEW GEM S2 + S3 SAMPLE TRANSLATOR SOFTWARE

The Sample Translator for the Gem S2 & S3 keyboard workstations is now available. This user program can be used to load external samples into RAM and allows the musician to use their favourite samples within the S2 & S3. Samples can be loaded via MIDI in MMA-SDS (Sample Dump Standard) or from floppy disk in AVALON (Atari), SOUND DESIGNER (Atari) or SAMPLE VISION (MS-DOS) formats. The waveforms can then be displayed on the S series screen allowing full graphic editing. Functions include ZOOM IN and OUT control of START and END LOOP POINTS, the transfer of samples to other instruments via MIDI, as well as the ability to display and modify the INTONATION, FREQUENCY, START and END LOOP of original samples. The new waveforms are added to the already extensive list and can be edited with all the normal edit sound functions. Up to 16 samples can be assigned to 16 zones of the keyboard for the creation of each new voice. *NEW SOUNDS & SEQUENCE DISKS also available

TRY THE YAMAHA SY85



THE GEM S2 + S3 MUSIC PROCESSORS

NOW 32 VOICE POLY

GEM S2 + S3 KEYBOARDS...BRILLIANT!! Superb workstations with sample playing as well **S3 £1899 S2 £1699** Pop in for DEMO

THE GEM S2 + S3 SOUND SUPERB
Great new synth sounds (6MB) • Load in samples (2MB)
Great Percussion + Drums • 2 x 18 bit Effects Processors
Dynamic + Polyphonic Aftertouch • 6 Separate Outputs
250,000 Event Sequencer with Full Graphic Displays • 32 Oscillators • 32 Fully Programmable Digital Filters • 350 Internal Sounds + 1600 Storable in RAM + LOADS MORE!!



At Music Connections we are Sampler Experts. Come to us to choose and try the best sampler for you! LOADS OF FREE ADVICE

Try The New KORG 05R/W & Sound Gallery Rack Modules KORG 01R/W - LAST FEW £895!



ROLAND JW-50 • GREAT PRICE • ROLAND SC155 SOUND CANVAS • BEST UK PRICE • ROLAND R70 DRUM MACHINE • BEST UK PRICE •



WE HAVE MASSIVE LIBRARIES - ON OPTICAL DRIVES CD-ROM + SYQUEST CARTRIDGES

BEST PRICE AKAI MX1000 MIDI Master Keyboard



MAIL ORDER INSTANT DESPATCH

MUSIC CONNECTIONS

Chelmsford
0245 354777

G & MIDI SPECIALISTS

Chelsea

MUSIC CONNECTIONS
202 New Kings Road,
London SW6 4NF
Tel: 071 731 5993 Fax: 071 731 2600



CHECK-OUT

PROTEUS MASTER PERFORMANCE SYSTEM

- It's a Proteus...and MUCH more!!!
- 4MB of superb 16 bit CD quality samples (Expandable to 8MB)
- 32 Note Polyphonic, 16 part Multitimbral.
- Built in professional quality digital effects.
- 5 Octave Velocity and Pressure sensitive keyboard.
- Quick Keys and Performance Maps for complete control of any complex MIDI set up.
- Exciting New Low Price!!!

E-MU NEW VINTAGE KEYS IN STOCK



PROTEUS/3 WORLD

Proteus/3 contains 4MB of exciting new 16 bit sounds from around the globe. These are samples of instruments typically not available from any other MIDI device and may be used to create world specific music or to augment ANY other musical style. Proteus/3 World offers an excellent sounds compliment for use in Film, Video or TV soundtracks.

KEYBOARDS

WE OFFER PROBABLY THE BEST SELECTION OF THE LATEST KEYBOARDS & RACK MODULES IN THE COUNTRY

- AKAI S950 • S1000 & S1000 SAMPLERS
- ENSONIQ
- ENSONIQ SQ-1 • ENSONIQ SQ-1+ • ENSONIQ SQ-2 76 KEY VERSION OF • ENSONIQ EPS 16 PLUS KEYBOARD • RACK
- KORG
- NEW KORG 01WFD & 01W WORKSTATION
- KORG M1 • KORG T2
- KORG WSI-EX WAVESTATION
- KORG WS - AD RACK
- KORG SG-10 SAMPLING GRAND
- OVERHEIM MATRIX 1000
- ROLAND
- ROLAND J0800 SYNTH
- ROLAND FP8 DIGITAL PIANO
- ROLAND S750 DIGITAL SAMPLER
- ROLAND SC-35 SOUND CANVAS
- ROLAND PS-200
- YAMAHA
- YAMAHA SY 99 • PLUS NEW KEYBOARDS
- KEYBOARD
- EMU SYSTEMS
- ALL EMU PROTEUS IN STOCK
- + PROCUSSION
- PIANOS
- EMU PERFORMANCE
- KORG SG1X • ROLAND FP8
- RHOODES UK80

BEST EVER DEALS

ON ALL

KORG, ROLAND,
YAMAHA, E-MU,
ENSONIQ & AKAI

ALL IN STOCK

E-MU DEALS

- PROCUSSION £BEST
- MPS KEYBOARD £BEST
- PROTEUS 1 £BEST
- PROTEUS 2 £BEST
- PROTEUS 3 £BEST
- EMAX II £BEST
- PROFORMANCE £BEST
- PROFORMANCE+ £BEST

KORG EXPERTS

-If you want to try the brilliant KORG range- WE HAVE IT ALL
Call In for a great DEMO

NEW PRODUCTS

- YAMAHA SY 85 •
- YAMAHA CLAVINOVA •
- FABULOUS

NEW

BIRMINGHAM SUPERSTORE NOW OPEN

Tel: 021 212 4777

Southampton

MUSIC CONNECTIONS

Kingsgate,
St Marys Street,
Southampton, SO1 1NF
Tel: 0703 233444 Fax: 0703 233266

Birmingham

MUSIC CONNECTIONS

Crosby Court
George Street
Birmingham B3 1QG
Tel: 021 212 4777 Fax: 021 212 4877



TRY
THE KORG
WAVESTATION SR!!

ALSO
IN STOCK
NEW Yamaha SY35
KEYBOARD
£599!

JV880
Rack
Module
NOW IN STOCK

Stunning NEW
YAMAHA QY20
Now in Stock
CALL FOR
DETAILS

CHECK OUT
the E-MU
systems EMAX II
Stereo sampler
Fully expandable
Brilliant
deals

INTEREST
FREE

NEW
Yamaha RY30
Drum
Machine

CREDIT
AVAILABLE
CALL NOW
FOR INFO

Brilliant NEW
Yamaha TG100
sound module Inc
Apple interface
£349!!

YAMAHA
MSC 05
MIDI FOOT
CONTROLLER
Remote control
your MIDI Gear
ONLY £49

ROLAND JV-30
LOW PRICE



HOT NEW PRODUCTS

- Akai DR4 4-track hard disk recorder
- Korg X3 workstation
- Rolland SC55 Mk II Sound Canvas
- Mackie Otto CR1604 automation
- Korg O5 R/W sound module
- Rolland SRV330 Space Reverb
- Sony DTC 690 DAT machine
- Akai CD3000 CD-ROM player
- Yamaha SPX 990 FX
- Boss SE70 FX
- Rolland J0990 synth module
- Gem S2 rack
- Rolland JV1000 workstation
- Gem Turbo kit
- L.A. Audio 4 x 4 compressor/gate
- Studiomaster P7 & buss desk

DYNATEK MASS STORAGE

At MUSIC CONNECTIONS we understand Mass Storage. Why not talk to us about which device would make your system more effective.

45 MB REMOVABLE

Store up to 45 Floppy Disks on one cartridge. Instant loading and saving of samples to your sampler, Roland S750, EPS 16+ and EMAX II

CD ROM DRIVES
OPTICAL DRIVES

Once the domain of the Pro because of the high cost BUT MUSIC CONNECTIONS brings it within reach of the Home and Semi-Pro Recording enthusiast

FIXED HARD DRIVES
88 MB 675 MB
1 GIGABYTE

Perfect for use with samplers or hard disk recording, these drives work with Soundtools, Protocols, Roland DM80 and Akai S1100

DYNATEK DRIVES ARE PROBABLY THE BEST IN THE WORLD AND ARE ENDORSED BY ALL MAJOR MANUFACTURERS

PART EX BARGAINS

CHELMSFORD

- Akai MG14D with Autolocator £1450
- DAC 44Mg Syquest hard drive £495
- 1040ST/SM124 £330
- Roland SPD11 £499
- Roland S10 £299
- Yamaha TX81Z £199
- Yamaha EM110 piano module £120
- Korg M1R £595
- 1040STE/SM144/Cubeat V2 £500
- Kawai R50 drum machine £180
- Audio Technica Pro 4H mic £30
- Korg EX600 £150
- Replay 16 for Atan £60
- Detailed digital delay £150
- Foslex 812 £360
- Roland Juno 106 Analogue £349
- Korg Poly 800 MIDI £299
- Yamaha DX21 £225
- Roland JV80 £850

ALLEN & HEATH G53 24 £2600

- DIA 16 mixing console £1599
- Roland C20 £449
- Akai S950 £899
- Roland JV80 £950
- Roland S10 £299
- Kawai K1R rack £175
- Yamaha SY85 £999
- Roland TB303 £349

CHELSEA

- E-MU Proteus 3 World £349
- E-MU Proteus 1 XR £399
- Kawai R100 drum machine £149
- Yamaha P2075 amp £249
- Korg O1W rack £395
- Alexis QuadraVerb 2 £275
- Akai S1100 £900
- Akai S1100 EX £900

BIRMINGHAM

- Technics SXK700 £179
- Roland TR555 drum machine £179
- Studiomaster Series 2 £1955
- Soundtools system for Atan 30 min hard disk dig in out £695
- Roland JW50 £799
- Yamaha SY35 £399
- Roland E70 £699
- Roland A30 £299
- Roland Pro E £299



Chelsea *Southampton* *Birmingham*
071 731 5993 0703 233444 021 212 4777

ALL PRICES INCLUDE VAT
OPEN 6 DAYS A WEEK
NEXT DAY DELIVERY

Teenage

ATR stands for Atari Teenage Riot, and Alec Empire, Carl Crack and Hanin Elias are a multi-ethnic slice from the new generation of post-ravers. Based in Berlin, they also regularly come face to face with the neo-Nazi element threatening to co-opt techno music for its own ends. Combining punk aggression, hip-hop radicalism and a refreshing attitude to technology which takes it entirely for granted, ATR are providing a blueprint for future pop and having a damned good time to boot. While Hanin sings and Carl DJs, Alec Empire provides the sampled and sequenced musical framework for their frenetic polemic. Here, he tells Phil Ward about the band and its aims, and why it was time to immortalise a certain computer...



On the Atari

"Yes, we do almost everything on the Atari as a sequencer, but then everybody does, I think. That's only one side of it. It's a bit difficult to explain, but for us it's a kind of symbol. There are techno acts, like The Prodigy, who are named after synthesisers, and to us the Atari was a stronger symbol, a symbol of Japan, of Tokyo, of computer games and everything. There are tracks which we do without the Atari, just using the 909 and 303 in sync and arranging live, but when we started it was the most important thing for the music. There are different techniques for creating a track, and we know them all, so it depends on the track which is the easiest way to get there.

"The first rule is that we have to develop the tracks very quickly. Speed is very important when we are working out the ideas. Sometimes the Atari can be too slow! If you just have the machines sync'd up and you're arranging while listening, you

have to think everything through much more. It's like improvising; you do things you perhaps wouldn't do on the Atari. In a way, it's more like remixing. But some things you can't do 'by hand'. So it depends on the track."

On dirty machines

"The Casio FZ1 - which in Germany is called the Hohner HS1 - was one of the cheapest samplers you could get, and it has that scratchy, cheap sound which I actually prefer now to the Akai. We only use the Akai to record vocals, or if we don't have enough memory, but normally the Casio is exactly the sound we want. If you sample something short, like a bass drum, it kind of 'breathes' - it gives this little squeaking sound which I like. And the low notes are really scratchy and bad, which is what the band's philosophy is all about: trying to get dirty sounds out of the machines."

Ki@ks

On choosing gear

"When we first started we only had three instruments: the Casio, the 909 and the Juno 106. That's all we used to record our first demo, which got us the record deal. I've had to buy back a lot of the equipment I sold in the late '80s! After acid, everyone was using the 303 over and over again, and I got so bored with it I sold mine. Only about half a year ago I decided it would be good to have one anyway. So I told my friend I wanted it back..."

"It's difficult to use these machines because everyone uses them so often, while on the other hand you want to use the best sounds. On the single 'Atari Teenage Riot', we use sounds which are very general, but we try to use them in a different style. Sometimes it's quite funny to use a sound which absolutely everyone knows, and to use it really obviously! It's the same with normal instruments, where you can use a particular guitar sound or something which everyone associates with a record, and make a parody of it."

On electronic music for the '90s

"I made some EPs for the Force Inc. Musicworks label in Frankfurt, which was a very progressive scene, where we would spend at least an hour just finding one new sound, so it's a good change for me to be in ATR. It's not ATR's function to look for new sounds - that's an old-fashioned, '80s way of looking at electronic music. In the '90s, there are a lot of people claiming new sounds but they're not really that much different."

"Our philosophy is to write the lyrics first, and then express those feelings through the music - like film music, where you have to underline everything in the music. 'Atari Teenage Riot', for example, has the often-used sounds of European techno, from Joey Beltram or whatever, mixed with guitar samples, to suggest a modern teenage riot. Every sound has to underline the sense of the lyric. People should get more ideas down first, and then use the machines to amplify those ideas. The emphasis on new sounds comes from Kraftwerk in the '80s, but perhaps we should get back to something more like Kraftwerk in the '70s, where the search for sounds was to illustrate an idea."

"That's my problem with trance, or ambient: take a choir sound, add a 909 beat, and the track is ready. I've done some stuff like that on Force Inc. too, more like early Detroit trance stuff. But I'm more interested in communicating ideas now."

On 'personality'

"A lot of people were surprised when we decided to form a 'band', because coming from the hardcore rave scene the philosophy always was to do 'projects', and not to show any personality. We sometimes have problems with organisers at raves, because when we appear on stage, the idea is to see us as personalities. We want to provide a little more of a performance. The industrial/EBM approach of hiding behind the machines is very old-fashioned. Sometimes people criticise us for 'acting', but if you accept the music you must accept the personalities as well. It looks all right, I think."

"It's important for there to be somebody to identify with, if you've got something to say. It's not so much an issue at raves, where the important thing is just to dance, but I've seen bands like LFO, and even Kraftwerk, and I've stood there feeling bored. A gig or a concert is more than just making music. Our music is very aggressive, and we want to get that across to the audience. I don't think you can make the kind of music we are making and just stand still!"

On anarchy

"We're using technology to f**k up the system. For us, all this musical history is just something we've read about. We can't really understand The Rolling Stones! It's all just sounds that we can sample. That's the kind of anarchy that's happening now: you can sample a 10-second loop and put it out on a white label, and the big system of the record industry can't get you - it's not quick enough. OK, it's a bit different for ATR now that we're signed to a major label, but that's the culture we came from. The original 'riot' was to create anything we wanted, including illegal stuff as well."

"Technology is the quickest way to get our ideas across, but also there are just more sounds available to you. I played in a punk band, and after a couple of years I just got so bored with the sounds. OK, you can create new sounds on the guitar using effects, but it's still basically a guitar. That's why samplers are so important. You can take the whole vibe from another record, or a film soundtrack. If you use short samples, and use them, for example, an octave down for your melody, I think that has a special mystery. You get something of the original vibe, and create a feeling that never really existed before, at least not in that form. In a way, you're changing history."

"As the instruments become cheaper, in sampling, in graphics and whatever, we will be able to see who has the best ideas: not just who has the most money." ●

Photos: James Cumpsty



Riotous assembly - Alec's home studio

Atari 1040STFM, with SM124 monitor	Sequential Circuits Pro One
Roland M-16E mixing desk	Roland MC-202
Hohner HS-1 sampler (the German version of the Casio CZ1)	Roland TR909
Roland Juno 106	Roland TR606
Roland SH-101	Roland TR808
Korg M3R	Roland TB303
	Alesis Midiverb III

On record

Alec Empire:

Tripmen EP (with T'N'I)
Yobot EP
SuEvide (Part 1) EP
SuEvide (Part 2) EP
Destroy Deutschland EP
Das Duell EP (with Biochip C)
Limited Edition EP
 'Totenposse Rides Out' single (on Structure, Cologne)
Star Trax EP (as LX Empire)
 'Unequal Chord' white label (as LX Empire)
 'Theme From Tekknoogy - Yobots Round My Neck' single (on DSB)

Hanin:

Parfum EP

ATR:

<i>Atari Teenage Riot</i>	EP	(Vertigo) 1993
<i>Midi Junkies</i>	single	(Vertigo) 1993
<i>Atari Teenage Riot</i>	album	(Vertigo) 1993

The MT Ambient Quiz

(Slight Return)

Don't look now, but *MT* is giving away 10 copies of Virgin's new double compilation *A Brief History Of Ambient Volume 1*, which will take you on a journey through many of the key instrumental recordings of the last 20 years on Virgin and its associated labels. All you have to do is answer our sense-adjustingly ambient questions below in a 100% correct manner, post the coupon to us no later than **21ST OCTOBER '93** and abide by the Golden Rules. Can you hear something?



Edgor Froese



The Grid



William Orbit

TRACK LISTING

disc 1

- 1 Flowered Knife ShadowsHarold Budd
- 2 Thru Metamorphic RockTangerine Dream
- 3 Evening StarRobert Fripp & Brian Eno
- 4 Mountain GoatAmorphous Androgynous
- 5 Sea Of VapoursNusrat Fateh Ali Khan
- 6 The Force Of VulcanHawkwind
- 7 RequiemKilling Joke (Youth remix)
- 8 An EndingBrian Eno
- 9 Marnia's TentRichard Horowitz
- 10 Rapido de NoirIrmin Schmidt & Bruno Spoerri
- 11 KazooAshra
- 12 Their MemoriesHarold Budd & Brian Eno
- 13 Leave Your BodyThe Grid
- 14 Electric Becomes EclecticChristopher Franke

disc 2

- 1 PhaedraTangerine Dream
- 2 Delta Rain DreamBrian Eno & Jon Hassel
- 3 The Monkey KingWilliam Orbit
- 4 Castle In The CloudsGong
- 5 Life FormHawkwind
- 6 The Dance #2Laraaji
- 7 Sacred StonesSheila Chandra
- 8 Earth FloorEarth Floor
- 9 Laft...Heist Das Es Laft Oder
Es Kommt Bald...LaftFaust
- 10 Gift Of FireJon Hassel
- 11 The End Of WordsMaterial
- 12 PanorpheliaEdgar Froese
- 13 VoicesRoger Eno
- 14 Traum Mal WiederHolger Czukay
- 15 HomeDavid Sylvian

1. Which ambient label did Alex Paterson work for in the days before The Orb?

2. Name the 1981 album from David Byrne and Brian Eno which first juxtaposed dance beats and 'found sounds'.

3. Of which German synthesiser band was Christopher Franke a member in the '70s?

4. Who recorded 'A Rainbow In Curved Air'?

5. William Orbit's current album is called...?

Name

Address.....

.....Postcode.....

Daytime phone no

Now post coupon
to:

**Ambient Quiz 2,
MT, Alexander
House,
Forehill, Ely,
Cambridgeshire
CB7 4AF.**

Congratulations to the following readers for correctly answering our squelchy questions in *MT* issue 82. Copies of *The Positiva Ambient Collection* are on their way to you.

Ray Trancing, Falmouth. Alan Martin, Troon.
David I. Lewis, Sheffield. Peter Hanes, Teddington.
Stephen G. Bond, Newton-le-Willows

Answers: 1 Richard James. 2 *Sleeper*. 3 Mixmaster Morris. 4 John Cage. 5 (courtesy of our winners) "Astradelicious"; "Euphoric"; "Plenescence"; "Wimbletonlanesque"; "Blissful".

The golden rules
Employees of Virgin Records and Music Maker Publications are ineligible to enter this competition. Only one entry per household is allowed. No correspondence or telephone enquiries will be entered into. The Editor's decision is final.

eXclusively ANALOG

WE BUY, SELL, PART-EXCHANGE, REPAIR & MIDI RETROFIT THE CLASSICS.

POLYSYNTHS

PPG 2.2/2.3/Waveterm B
Moog Memorymoog
Sequential Prophet 5/10
Oberheim 4 Voice/Obxa
Roland MKS80/Jupiter 8 MIDI/MKS70
JX10
Rhodes Chroma
Kurzweil K250

MODULAR SYSTEMS

Arp 2500/2600
Moog 3P/3C
Aries
Roland System 700
Serge
Polyfusion

ALSO

MONOSYNTHS by Arp, Roland & Moog.
Vincequencer
(16 step custom built analogue sequencer)
EMS 2000 vocoder
We manufacture analogue sequencers & can produce custom built analogue equipment i.e. filters/oscillators

This is a selection of our current stock; phone for latest info.

Chris - 0625 526449

Tony - 0246 208287

Fax - 061 429 8510



DOUBLE TAKE

As if they weren't already an unbeatable team, the DPM[®] SP/DPM[®] SX combination now has twice the punch with the introduction of the new DPM[®] SX II **Stereo** Sampling Expander Module from Peavey.

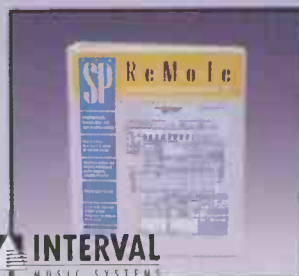
There are many reasons why the Peavey DPM SP has become the most popular sample playback instrument in the industry; affordability, expandability, sonic quality, and ease-of-use, just to name a few. Now there is another reason -- the DPM SXII.

The SXII Sampling Expander is designed specifically to complement the SP. It offers stereo inputs which accommodate quarter inch or XLR connectors for true stereo sampling. New features include: real-time sample transfer over SCSI, so it samples directly into the SP's memory,

eliminating the need to expand memory in the SXII; a stereo audio output allows monitoring and auditioning samples as they are recorded; a MIDI input allows samples to be played directly out of the SXII from a MIDI keyboard or trigger device; and yes, the SXII comes with SCSI as a standard feature.

Now there is no doubt, the DPM SP teamed up with the DPM SXII is absolutely the most flexible and affordable 16-bit stereo sampling system available.

PEAVEY HAS JOINED FORCES WITH THE TOP NAMES IN THE INDUSTRY TO OFFER AN EXTENSIVE LIBRARY OF SOUNDS AND SOFTWARE FOR THE DPM SP AND DPM SXII. LOOK FOR THESE SUPPORT PRODUCTS AT YOUR LOCAL PEAVEY DEALER:



INTERVAL
MUSIC SYSTEMS
SP Remote — Front Panel Editing Program for the DPM SP and Macintosh[®] Computers. Created for Peavey by Interval Music Systems.



DENNY JAEGER
Denny Jaeger Master Violin Library — Available on a series of three CD ROM disks for the DPM SP. Created for Peavey by Denny Jaeger.



STRATUS
PROSONUS
DPM SP Sample Disk Library — A complete library of sample disks for the DPM SP. Created for Peavey by Northstar, Stratus Sounds, Prasonus, and others.

RECEIVE A FREE "SAMPLE THIS" T-SHIRT WITH THE PURCHASE OF EITHER THE DPM SP OR DPM SXII. SEE YOUR PEAVEY DEALER FOR DETAILS!

For complete Peavey keyboard information and software upgrades, pick up the latest edition of **Key Issues** at your local Peavey dealer.

The Monitor Magazine by Peavey is a publication filled with the latest information that musicians want to know. To receive 4 issues for only \$5 (price good in U.S.A. only) send check or money order to Monitor Magazine, Peavey Electronics, 711 A Street, Meridian, MS 39302-2898

PEAVEY

PEAVEY ELECTRONICS U.K. LTD. • HATTON HOUSE, HUNTERS ROAD, CORBY, NORTHANTS, NN17 1JE ENGLAND (0536) 205520
FAX: (0536) 69029

SAMPLE PLAYBACK SYNTHESIZER

The Peavey DPM-SP Sample Player

MADE IN U.S.A.

DATA

PRESSET MAP DISK GLOBL UTIL EXEC
TONE WAVE -/DEC +/INC
VOLUME

SP[™]
PEAVEY

LEFT/MONO INPUT
RIGHT INPUT
LEVEL
R-G-L
L R
DIGITAL SAMPLE EXPANDER
MONITOR
AUDITION
STEREO
ASB
START/STOP
MIDI DUMP
SAMPLE RATE
48 kHz
24 kHz
ALT
MADE IN U.S.A.
PEAVEY

SX II[™]

STARTUP

In At The Beginning

As they prepare to release their first single, new label Riff Raff Records explain their gameplan to Simon Trask.

When Steve Smith was made redundant after six years working for British Aerospace, he decided it was time to realise his dream of running his own record label. Steve is no stranger to the machinations of the music business, having had a charting single on Living Beat Records and a couple of tracks included on a dance compilation album, *Freedom To Party II - Ultimate Rave*, which sold in excess of 80,000 copies in the UK. He also had a thousand 12" white labels pressed up a couple of years ago, and then trekked round the specialist dance shops "to find out what it was like trying to sell a thousand records". In the event he sold around 600 over the counter, and subsequently another 200 through a distributor.

"We just went into record stores saying 'Do you want to buy this record?'," he recalls. "They'd put it on, listen to it and say 'Yeah, we'll have 10', 20 of those.' They paid upfront, cash over the counter, as well. I think the most we sold in one go was 25. We were getting about £2.30 for each single,

whereas going through a distributor it was about £1.75. You're not going to make masses of money on a thousand singles, but if you can buy a bit of gear for your studio it's worth it."

Today, Steve looks back on his early encounters with the music biz as a valuable learning experience.

"I think you have to go through an apprenticeship, really," he says. "See how it all works, and then either knock it on the head because you don't like how it works or pursue it further."

Having chosen the latter route, Steve has spent the past six months doing all the groundwork of establishing his own record label, Riff Raff Records, with girlfriend and business partner Helen Maher - setting up a promotions mailing list, advertising for demo tapes to be submitted, getting the record company logo designed, registering the publishing company, sorting out a solicitor and an accountant, putting together a business plan and, of course, paying the bank a visit. Steve also attended some government-funded business courses to learn the basics of running a company.

"They're open to anyone," he says. "You just find your nearest office, phone them up and go along. I think a lot of people don't realise these courses are available. You learn about book-keeping, business management, invoicing, notifying the income tax people, registering for VAT, marketing... everything you need to know to set yourself up in business. If you're going to run a label you have to have the business side sorted out, otherwise it's not going to work. People think 'We'll just press up these records and we'll sell 'em and make loads of money.', but it's not like that. You have to sort out a business plan.

"Our plan got a good reaction, the banks were really into it, so we had no

CONCLUDE

Few would disagree that a thriving independent scene is essential to the health of the music industry. Buoyed up with enthusiasm, belief and commitment, and unencumbered by the bureaucracy of the majors, independent record companies are a fertile breeding ground for new talent in its many and

problems getting money from them. But there was a lot of work involved to get that. Especially with a record company, it took a lot of explaining – it's not like you're setting up a plumbing service! You do your cashflow, and how many sales are you going to base it on? We based ours on a minimum of 3,800 record sales; obviously we'd like to sell 80,000, but you've got to start from a realistic figure."

The single which Steve and Helen hope will get Riff Raff off to a flying start is a pop dance cover of the Steve Miller track 'Abracadabra', featuring veteran session singer Angie Giles on vocals. A track with strong crossover potential, it was recorded and produced by Steve and session player/programmer Martin Lister under the name Dreams 2 Reality.

With the exception of the vocals, which were laid down at Westar Studios in Southall, 'Abracadabra' was recorded and mixed entirely in Martin's home studio, allowing the recording costs to be kept to a minimum. The pair have completed several mixes of the track, all of which are set to appear on the single along with another, self-penned, track, 'Let's Do It'.

With the recordings in the can, Steve was preparing to do the rounds of the distributors when *MT* spoke to him.

"I'll be going to five or six, the major ones," he says. "I've spoken before to Pinnacle, Revolver, APT, Sony... Sony are actually distributing a lot of independent dance stuff, now. We want to get our records into the main chain stores as well as the specialist dance stores, so we want to use one of the major independent distributors."

The plan in the first instance is to press up a thousand copies of the single.

"It'll go out on promotion for two-to-three weeks before the full release date," Steve explains. "We're looking to get it into the pre-release charts in *Record Mirror*, *DJ* and *Mixmag* and get a bit of a buzz on it. We'll set aside 200, 250 of the initial pressing to mail out to press, TV, and club DJs. Then from the reaction to it we'll judge how many further copies to press up."

But what if the single takes off? There's obviously a limit to how many copies a small label just starting out can afford to get pressed up (Steve reckons they can go up to five or six thousand initially). One option is to go for a

manufacturing and distribution deal with the distributor, which means that the distributor takes on all the manufacturing costs upfront – but the label sees less return on sales further down the line.

Another practical issue which Steve and Helen are aware of from previous experience is the amount of time it can take to get paid. "Some of the distributors, although they say they'll pay you after 30 days, sometimes you're actually waiting quite a long time," Steve observes. "If you're starting a label and you're having to wait for your money, it can be a major cashflow problem. That's something we've got to watch out for. Obviously there's a

risk involved in all this, but then if there wasn't any risk we'd all be millionaires!"

With millionaire status still some way off, Steve and Helen have their sights set modestly but, perhaps, realistically.

"In the first year the aim is for Helen to come on board and work full-time for the company, and for us to get a little rented office space instead of working from home," says Steve. "Then for the future, maybe in the next three years, the plan is to build a studio and get Martin more closely involved."

In these economically challenged times, starting up a record label might not seem like the wisest of moves. For Steve, however, the time feels right.

"This just feels like the natural thing to do," he says. "I don't want to work for anyone else again, I just want to do my own thing. We aren't under any illusions that this is going to be a get-rich-quick scheme, 'cos it ain't, but we're going to be doing something that we enjoy."

'Abracadabra' by Dreams 2 Reality is set for release in mid October

FON's Fallout

Sheffield independent FON Records played a key role in propelling UK dance music into the charts during the late '80s with Krush and Funky Worm and then self-destructed. Former FON partner Dave Taylor tells *Simon Trask* where they went wrong.

No record label sets out to fail. Like many others before and after it, the label which Dave Taylor refers to as "this little half-baked amateur-hour operation in Sheffield" formed out of a desire to release records by unsigned bands who they felt deserved the exposure.

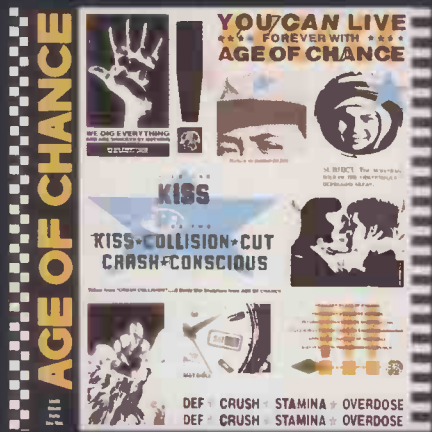
"It was all on the basis of 'Great track, let's put it out'," Dave recalls. "We had a facility to make records, we got a bit of a distribution deal together and off we went. Pure enthusiasm, stacks of naivety, and no real concept of what may or may not happen."

FON's early releases ranged from indie guitar to industrial funk to "Eastern ambient dancey" in style. "Probably a classic way not to start a label!" Dave laughs. "We didn't really have an identity at all, we were just doing what we wanted to do. It was all quite fun, and we decided it was worth carrying on with even though we realised 'Well, this isn't really making us any money, and it's probably actually losing a bit of money'."



THE BEATS

varied forms - from house to hip hop, grunge to garage, acid to ambient. Launching a new series in celebration of the independent record label, *MT* takes a look at young hopefuls Riff Raff Records and traces the downfall of pioneering independent dance label FON Records.



But then, after about nine months they had their first taste of success with *Age Of Chance*, the group which pioneered the indie guitar/dance collision with their cover of the Prince song 'Kiss'.

"It was just one of those happy things," Dave recalls. "They had a good media-worthy idea and it worked. 'Kiss' was the biggest-selling indie single of '86 and '87, and you still hear it out in indie clubs. So that really brought attention to the label."

Unfortunately, it also showed them how bitter-sweet the taste of success can become, when a major came along and poached the band from them.

"We were in that classic situation of 'Well, look, they can offer us this, that and the other, what can you offer us?' We were defenceless. So they went, and that was a bit angst-ridden to say the least. Thankfully, not long after that these two guys from Nottingham walked in and gave me this tape."

The record which resulted from this encounter, Krush's 'House Arrest', took FON from indie chart success into the big league of the national charts almost overnight. 'House Arrest' came along in the wake of M/A/R/R/S' sample dance hit 'Pump up the Volume', and, all of a sudden, FON found themselves in the middle of a full-blown dance music invasion of the national charts. Recalls Dave:

"Literally within a month of 'House Arrest' going in the charts you saw Bomb The Bass, S'Express, Coldcut with 'Doctor In The House' and what they did with Yaz, and all of a sudden it was 'Hey, what's going on here?!'"

Further Top 40 chart placings came FON's way with Funky Worm's 'Hustle (to the Music)'. However, along with this newfound success came changes in attitudes and priorities.

"You start thinking about follow-ups and worrying about losing the momentum that you've created with the first track," Dave explains. "The band are thinking 'Oh my God, this one's got to sell as many copies as the last one or it's a failure', the producers are under pressure to make sure it's a bigger hit than the first one, the record label's starting to think 'Oh my God, we've got to make sure we don't miss out here'... The scale, the parameters you're aiming at, suddenly change. Whereas one minute you're happy with 3000 copies and getting into the dance charts, the next minute it's 'Well, we need pre-sales to get it into the Top 40 first week, that means we need radio play before, which means it needs to be serviced before, therefore we probably need to have the video made upfront so that maybe *The Chart Show* will show it.' So you end up getting caught into quite serious strategising and marketing campaigns that you probably didn't think one minute about before. And that's when you start spending money."

"On top of that, everyone starts accusing you of ripping them off, and all these new bands who'd been saying to us 'Look, we just want a chance to make a record' are going 'We want £25,000 before we do this, we want to see video commitment, we want to see tour support.' Everyone looks at you differently, and you have to react differently to how people are approaching you."

Of course, all this could be seen as the growing pains rather than the death pangs of a still young label. But there were other problems which combined to set the seal on FON's fate. For a

start, there was Krush's failure to release a follow-up to 'House Arrest'.

"Krush were a classic case of huge potential that got imploded straight away with bickering, politics, money, change of attitudes," says Dave. "It didn't work as well as it should have. I think if they had got together some follow-ups they could have sold a fair number of albums, and they could have been the first British pop/dance act."

Yet not all the blame could be laid at Krush's door. FON had licensed 'House Arrest' to Phonogram as soon as its mainstream potential had become apparent, fearing that their own resources wouldn't be enough to see it into the national charts. Yet when it came to putting out a follow-up, Phonogram kept vetoing the tracks Krush gave them, and crucial time was lost.

"January, February of '88, Krush were riding the charts in Britain and all round Europe, and doing very well in the club charts in America," Dave recalls. "The next thing we knew it was May, June and we hadn't agreed on a follow-up, and in the meantime Yaz had appeared, Coldcut were having hits, S'Express, Bomb The Bass... and Krush were beginning to look like a one-hit wonder - which is exactly what they became."

Dave also identifies FON's inability to turn singles success into album success as a crucial failure.

"If we'd been able to do that then we could have survived," he maintains. "That is why I think labels like Mute, 4AD and Creation have been able to continue, because they've had at least one or two bands from very early on who've been selling albums, and they've had the sustained cashflow turnover of that to keep them going. We were dealing with situations where we had one great piece of music and people didn't think about follow-ups till we were already in the charts. There was no long-term strategy really

worked out, which was a total mistake from our point of view."

Dave also feels that FON got "too caught up with the attitude 'We've got to have hit singles' and with trying to turn what was basically a studio project into an act", and as a result lost sight of the underground. While they were releasing the third Funky Worm single, 'You And Me', Warp Records were starting out with singles by The Forgemasters and Sweet Exorcist which epitomised the underground scene in Leeds and Sheffield at the time. For Dave, the contrast "about summed it up: we were out of sync."

'You Plus Me' got to number 41 in the national charts - which by this time made it a failure in the label's eyes. In fact, it turned out to be the last record they released.

"I think if that record had been a Top 40 hit FON might have carried on, but basically that was the nail in the coffin," Dave says. "By then there was just so much bad vibes going on. All the expectations and hopes were getting shattered."

By this time the label were also losing money, which of course brought further pressures to bear. In the end, FON simply "imploded."

"There was a lot of stress," Dave recalls. "A lot of personal friendships suffered and broke down, and everybody just ended up thinking 'Oh my God, this is a nightmare, there's no fun in it any more.' Krush hadn't been able to release a follow-up, Funky Worm were falling to pieces, and FON was in major internal argument - all because there had been this mass of expectations, and supposedly massive amounts of money being generated. Most of the money we'd made ended up in the hands of lawyers. Watch out for lawyers. Well, watch out for yourselves first. Be really clear about what you're trying to do."

So, knowing what he knows now, would Dave want to get involved in a record label again?

"I think if I was five, ten years younger then definitely," he replies. "But it does take a hell of a lot of time and effort, it's not a 9 to 5 job. If you think it's going to work like that then you're in for a nasty surprise."



Dave Taylor founded and still co-owns the Warp record shop in Sheffield. He is also Managing Director of the respected FON recording studios in Sheffield.

Hard fax

WHITE LABEL PRODUCTION COSTS

(all figures estimates excluding VAT)

cost of the cut:	£ 150
processing and plate:	£ 100
1000 x 12" singles:	£ 450
1000 white labels:	£ 100
artwork:	£ 140
bags (plain black or white):	£ 100.
Total:	£1040

USEFUL BODIES

Mechanical Copyright Protection Society
Elgar House
41 Streatam High Road
London SW16 1ER
Tel: 081 769 4400

Performing Rights Society
29-33 Berners Street
London W1P 4AA
Tel: 071 580 5544

Umbrella
P.O. Box 763
London SE24 9LL

(Umbrella is an association for independent record labels with independent distribution; they also provide advice for anyone thinking of starting up their own label)

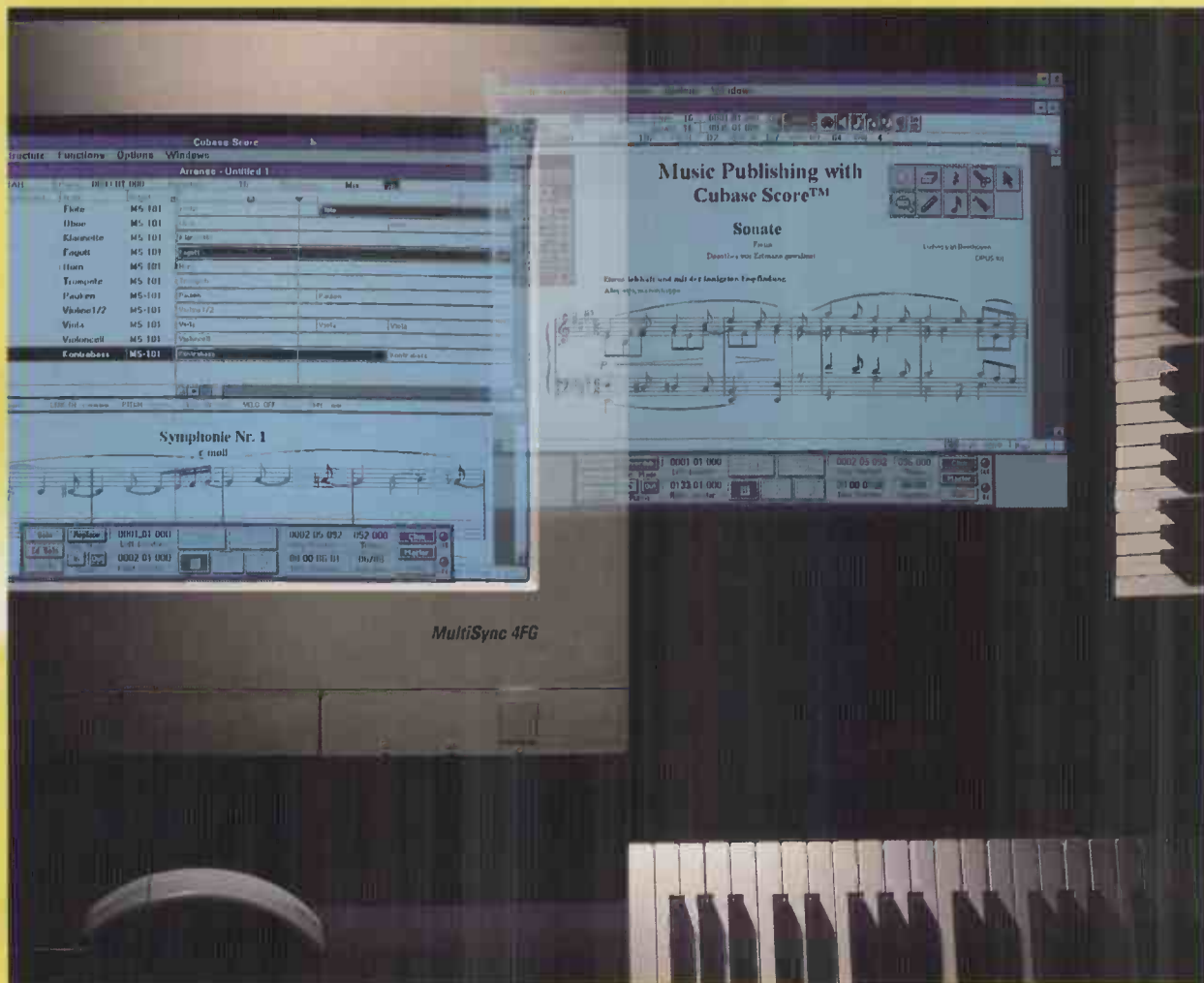
USEFUL REFERENCE BOOKS

Music Week Directory
Kemps International Music Book
(Both are updated annually - *Kemps* is currently in its 25th edition. If you just want to browse and jot down a few names and addresses, try the reference section of your local library, as neither book is particularly cheap to buy)

RIFF RAFF CONTACT

Riff Raff are looking for original, creative dance music with crossover potential, anything from pop to underground. Good songs also welcome. Tapes can be sent to:
Riff Raff Records
P.O. Box 63
Ashford
Middlesex TW15 1AN.
(enclose sae if you want your tape returned)

IT'S OBVIOUS!



Cubase Score for Windows combines first class MIDI recording with Professional Score Printing - all performed with a transparency and user friendliness never before seen on an IBM-PC.

Features alone don't make a good program - the integration into the user interface is vital, and Cubase Score's interface is leading edge technology.

Cubase Score includes both PostScript support and a dedicated notation-font for high quality printing. Add to this, true ease of use, and with Cubase you get maximum flexibility ... with minimum fuss!

It doesn't matter if you are working on an IBM-PC, Apple or Atari, there is a Cubase package for your needs*. You can upgrade to your Cubase, on any computer, at any time!

By incorporating important new technologies such as MIDI Machine Control**, Cubase for Windows becomes a production environment without parallel.

Reason enough for Cubase to be successful worldwide!

Cubase - The Right Choice - Obviously!

Steinberg

H Harman Audio
Harman International Industries Limited
Borehamwood Industrial Park, Rowley Lane,
Borehamwood, Herts WD6 5PZ
Tel: 081 207 5050 Fax: 081 207 4572

* Cubase Lite, Cubase, Cubase Score or Cubase Audio
** e.g. to remote control an Alesis ADAT. Steinberg ACI hardware required

All product and company names are TM or [®] trademarks of their respective holders.

MM5

ADVANCED PROGRAMMABLE
MIDI FOOT CONTROLLER

£199

Philip Rees

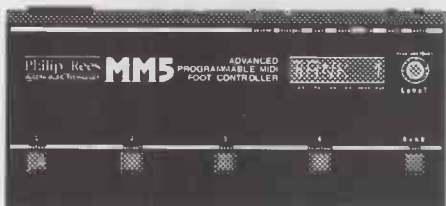
MODERN MUSIC TECHNOLOGY

Bursting with doodahs for the performing musician

The new **MM5** can generate, process and monitor all types of MIDI data. It has a well-structured and comprehensive set-up programming system. It will be useful to anyone who uses MIDI, and people who play live will fall in love with it.

Banks>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Switch 1	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Switch 2	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Switch 3	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Switch 4	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

There are sixteen nameable Banks of four velocity-sensitive Switches. You can read the bank names, programming menus and other indications on the large, six-character alphanumeric LED display.



A compartment is provided for a battery or you can use an external mains adaptor.

The switches can be made to hold single MIDI messages, sequences of MIDI messages, and even multiple sequences.

MM5 can generate modulation at a chosen speed on any MIDI controller. It can act as a MIDI clock source. You can call up sixteen chord-types and sixteen arpeggiation types. You can connect and empower two external volume pedals.

The **MM5** can process the data it receives and mute specified message types. Note echo, harmonisation and transposition are provided. You can set up to four keyboard splits and map MIDI velocities, Controllers and Program numbers.

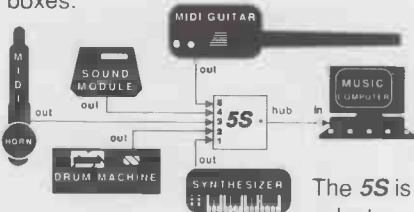
Low cost MIDI Thru Units

Some MIDI equipment may lack thru sockets. Chains of more than three MIDI devices can suffer from data corruption. You can solve all these problems at low cost with *Philip Rees'* MIDI thru units.

The handy **V3** is a neat one-into-three thru box for just £14.95. For a larger 'star' network, you may use the **V10** - a mains-powered one-into-ten unit costing £39.95. For £55.95, the mains-powered **W5** dual input thru box has independent source selection for each of its five thru outputs.

Versatile MIDI Selectors

You can avoid plugging and unplugging MIDI cables with these simple switch boxes.



The **5S** is a selector for £29.95. The larger **9S**, which is similar with nine positions plus 'off', is yours for £39.95. The popular little **2S** offers two ways plus an 'off' position for just £14.95.

The novel **3B** is a three-into-two changeover unit with five MIDI ports and a three-position selector. It is currently available at the **special price** of £19.95.

Smarter MIDI Merge Units

You can't combine MIDI data-streams by joining wires together, so you may need a merge unit - we make the best! The **2M** merges two sources, and is even better value than ever at £69.95! The **3M** merges three for a very reasonable £99.

These units both have **built-in mains power supplies**. They can handle all types of MIDI data, including Time Code and System Exclusive messages of any length. In both units, MIDI clock conflicts are prevented by an intelligent interlock system. Many automatic features enhance performance and convenience.

The **2M** has four ports for each input plus two copies of the merged output. It sums pitch-bend values received from opposite inputs.



The **3M** provides thrus for two of its inputs plus a port for the merged output. The **3M** has an interlock system for pitchbend.

MIDI Patchbay System

The **5X5 MIDI Switch** is a convenient and economical MIDI routing device that will help you explore new routing configurations and liberate the potential of your MIDI gear. The fabulous **5X5** lets you connect each of up-to-five MIDI slave devices to any of up-to-five masters. It has a built-in mains supply in its 1U half rack width case and is only £99.

Fantastic MIDI Line Driver

The **MLD** system overcomes the fifteen metre limit of standard MIDI hardware. **MLD** converts the MIDI signal to a differential (balanced) format, so that it can traverse up to one kilometre.

MLD is only £89.95 and consists of a pair of compact units. Each one is just 109mm x 54mm x 42mm.

The mains-powered transmitter unit includes 'Cleanstream' waveform restitution.



The receiver unit is powered via the line, and features a noise filter.

MIDI to CV Converter

Via **MCV**, your MIDI system can control your irreplaceable old analogue synths, with their great sounds and lovable knobs.

The high-performance **MCV**



renders the full MIDI note range with delightful speed and accurate pitch. It also responds to pitchbend and velocity, and you can set it to receive on any MIDI channel.

Two sets of **1V/oct** CV and gate outputs carry the same monophonic line and you can independently tune and configure them. You make all adjustments conveniently on the front panel. The friendly ergonomics and unbeatable performance of **MCV** mean it is great value at £189.95.

The case is 1U high and half rack width and the mains power supply is built-in.

All these fine MIDI accessories are designed and made in England by *Philip Rees*. Prices are manufacturer's suggested selling prices, including 17.5% VAT, valid at the time of going to press.

All our products come with intelligible manuals and carry a **five-year parts and labour guarantee**. We give good service because we aim to succeed.

For more information on our wonderful range of equipment call:

Charlbury (0608) 811215 or write to:

Philip Rees
Unit 2, Clarendon Court
Park Street, Charlbury
OXFORD

OX7 3PT

A TO Z OF ANALOGUE

part 3

MT's exclusive guide to every analogue synth made. Included are keyboards, expanders/sound modules and the better known electronic pianos and organs. Not included are drum machines, standalone sequencers and effects units, vocoders and those guitar/wind synths which aren't regularly used as expanders in their own right.

Readers are invited to submit details of little-known instruments which may be of use in compiling the series and also to point out any mistakes and/or omissions if these occur. All contributions will be fully credited.

Special thanks to: Les Bradley, David Etheridge and Martin Smith for Chamberlin info, Andy Horrell of EMIS, RN Mooring of John Hornby Skewes, Mushroom, and Bob Williams - for help and information in compiling these entries.

Compiled by Peter Forrest



Chadacre

- 6300 SYSTEM - A little-known range of modular synths.

Chamberlin

Designed and originally hand-produced in very small quantities by a Californian, Harry Chamberlin c.1958/9 - early '70s, Chamberlin keyboards were used as the basis for the design of the much better known Mellotron.

Two instruments were brought over to London (without Chamberlin's approval) by intrepid entrepreneur Bill Fransen, looking for finance and improved production ideas. (Fransen had originally been cleaning windows when he saw the instruments in Harry Chamberlin's garage.) Fransen asked the Bradley Brothers to produce 70 matched tape heads, and ended up helping in their manufacture.

Chamberlin eventually received \$30,000 for the rights to produce the Mellotron, and did once visit the factory.

Key facts

Dates: These refer to the approximate year of manufacture. New instruments were often on sale for quite some time after production ceased and precise chronological information is difficult to come by (all help gratefully received!). Where any doubt occurs you will see a question mark.

Prices: The original price quoted is that which you would have paid in the shops; the target price is what you could expect to pay now for a fully-working example in reasonable condition.

Users: If the exact model of synthesiser used is unclear, users are included under the maker's name.

Stars: A maximum of five stars (except for truly remarkable instruments) is given in these categories:

Interface - how easy it is to connect up to other synths or sequencers. MIDI, obviously, scores highly, so to does the ability to MIDI up using an external unit or internal interface. CV/gate at 1 volt/octave scores higher than a volt/Hertz implementation - which in turn scores higher than having no interface at all!

Sounds - simply how good the thing sounds. Obviously subjective, this is an area open to potential disagreement. Who's to decide whether a Moog 3C sounds better than a Prophet 5.?

Controls - how comprehensive, versatile and useable the controls are. A good set of dedicated knobs and switches obviously counts high, and so do touch-sensitivity, foot-pedal options and the feel of the keyboard. **Memories** - 100 or more memories (and MIDD) will tend to get five stars. Anything less will get proportionately fewer.

VFM - Value for money. Again, an area of subjective opinion. Many feel

that programmable MIDI polyphonics with VCOs represent the best value, but you might not!

Character - that indefinable 'something' that makes a synth desirable. Wood panels, knobs and uniqueness score highly.

Collectability - people collect strange things, but this category takes into consideration rarity and general interest/desirability rather than bizarre obsession.

Ease of use - intuitive, unfussy and easy-to-adjust controls count high. So too does the lack of complicated hidden menus, button-pushing and parameter access

Where no stars are awarded, it means that either certain features are not included at all (eg, no interface connections) or the category is not applicable (eg, value for money in respect of a synth only released as a prototype).

- **RHYTHMATE M1/M2** - Tape replay dual and single 35-note keyboards. **Original price:** c.\$750.

Target price: \$1200 - \$5000

Users include: Kenny Ascher (Dr John: *Hollywood Be Thy Name*), Eno and David Bowie (*Low* album; mis-spelt on the sleeve), Mitchell Froom (Elvis Costello: *Spike*), Patrick Leonard, Mike Pinder.

- Predecessor of the Mellotron; the Mark I Mellotron was virtually a copy of it (faults and all) and other Mellotrons used most of the Chamberlin's basic ideas.
- Tapes of rhythm sections and fills assigned to left-hand keyboard (in the key of the note you pressed), ordinary notes for melody/chords assigned to right.
- Each tape had six sections which could be fast-forwarded or rewound to, but the punched-hole system for stopping the tape in the right place was prone to failure.
- Spring reverb (possibly Hammond) built in.
- The absence of a proper internal chassis meant that machines disliked being moved. They were also noisy and unreliable - more so perhaps than the Mellotrons (except, perhaps, the Mark I).
- Three versions were produced: the first closely resembled the Mellotron Mark II, with its two 35-note keyboards; the second was like the Mellotron 400, and there was a third (very rare) version with three keyboards.
- Originally used three tracks on each tape, each playable individually, or in combination (A and B or B and C).
- Later stereo version introduced with four pairs of stereo tracks on quarter-inch tape.

Interface:
Sounds: ★★★★★
Controls: ★
Memories: ★★★

VFM: ★
Character: ★★★★★
Collectability: ★★★★★
Ease of use: ★

Chase

For the most part, the Chase range comprised re-badged Bit synths. There was, however, a further non-Bit addition.

● **CBP2** – 13-note bass pedal board (C-C). c.1983.

Original price: £299

- Included controls for filter envelope and resonance, waveform, sustain on/off and length.

Cheetah

Although this British firm ceased production of musical instruments in early '93, two ex-employees of the company – under the name Soundscape – are committed to releasing a mark II version of the MS6.

● **MS6** – 6-voice, 6-part multitimbral, 12-DCO, 1U rackmount expander. 1988 – 1992.

Original price: £300

Target price: £150

Users include: The Christians, Julian Colbeck, DNA, Tony Levin, Rhythmic, Sheep on Drugs, Ultraviolet, Rick Wakeman.

MT review: Nov '88.

- Very good value, reasonably solid construction, masses of facilities.
- 320 ROM, 96 RAM memories, 64 performances.
- 24dB Curtis filter, LFO, VCA, two envelopes, and two DCOs per voice – comprehensive.
- Sensitive to velocity and channel aftertouch.
- Most parameters can be accessed from front panel – but weird and wonderful routings aren't as accessible as on, say, a Matrix 1000.
- No knobs or sliders.
- Configurable as one 6-voice, six monophonic, or anything in between. The lack of dynamic voice allocation, however, means that you're stuck with what you've programmed – even if one part is silent when another needs the extra voice.
- Expandable: will send out notes on MIDI overflow – but not controller information. Whoops!
- MS6-II to featuring stereo outs, aux inputs for processing other sounds, and onboard digital FX.

Interface: ★★★★★	VFM: ★★★★★
Sounds: ★★★★★	Character: ★
Controls: ★	Collectability: ★★
Memories: ★★★★★	Ease of use: ★★

● **ZEUS 24** – 61-note weighted MIDI keyboard. 24-note polyphonic, 12-part multitimbral c.1992. A prototype machine – only a few (probably four) were ever built – the Zeus ultimately contributed to Cheetah's downfall.

Predicted price: £2000

- 200 patches, 200 combinations, channel aftertouch and velocity sensitivity.
- Internal processors couldn't cope with amount of work required once demands on polyphony grew. Speed of functions would deteriorate.
- Disappointing lack of controls – just four knobs, four sliders.
- Internal reverb included; plus eight separate outs.
- A heroic failure, it was to have been available in any colour you liked, as long as it was red.

Chroma Fender/CBS

● **POLARIS** – 61-note, 6-voice, 12-VCO, velocity-sensitive splittable MIDI keyboard with 132 memories

and 12 sequencer memories. 1984 – c.1986.

Original price: £1700 (but sold for much less – and only \$1495 in US)

Target price: £250 – £400

Users include: Herbie Hancock, Peter Vettesse

E&MM review: Nov '84

- Strongish sounds, thanks to 12 VCOs, 12 VCFs, 12 VCAs, six five-stage (ADSDR) envelopes, six 3-stage (ADR) envelopes, and six LFOs.
- Oscillator sync and ring mod available.
- Simple onboard sequencer, limited capacity, but with sync in and out connections.
- Polyphonic portamento.
- Splits at any point – though only 3/3 voice allocation available.
- MIDI In, Out, Thru, and Triad interface for Rhodes Chroma, Apple computer, etc.
- 20 sliders for that all-important real-time adjustment lunge (better than big brother Rhodes Chroma in this respect).
- Unimpressive (vaguely sub-Oberheim) performance levers.
- Originally produced in 'ARP' orange, then blue on production models, there was some doubt over quality control.
- Pretty rare compared with its contemporaries like Juno 6 and Polysix.
- A manual is still available from Fender Product Services, 1130 Columbia Street, Brea, CA 92621, USA.

Interface: ★★★★★	VFM: ★★
Sounds: ★★★★★	Character: ★★★★★
Controls: ★★	Collectability: ★★
Memories: ★★★★★	Ease of use: ★★

Clef

● **MICROSYNTH** – 30-note, 2-VCO, 1-VCF monosynth with noise generator. 1982 – c.1985.

Original price: £199

Target price: £25 – £60

- Also available in kit form at £129.
- No separate LFO – like Minimoog, you have to use one of the VCOs for modulation. (This aside, it has very little in common with the Minimoog.)
- Two sub-oscillators to beef up sound.
- Noise generator – not often found on very cheap synths.
- Thumbwheel for modulation.

Interface: ★★★★★	VFM: ★
Sounds: ★	Character: ★
Controls: ★★	Collectability: ★★
Memories: ★★★★★	Ease of use: ★

Crumar

This prolific Italian company founded by MARIO CRUCIANELLI put out new designs and re-vamped old ones with incredible frequency – particularly during period 1975 – 1983. Showed a bias towards multi-instrument or imitative instruments – string synths, organs, etc. Klaus Schulze was an early user.

Nearly all products designed for road use – either with built-in flightcase (of sorts), or carrying case. No Crumar analogue products were equipped with MIDI – synthesiser name changed to BIT for their first MIDI products.

● **BRASSMAN** – 49-note brass synthesiser c.1975. Voices included trombone, French horn, trumpet, and sax, with a muted trombone and two muted trumpet variations.

Original price: £346

Target price: c.£50

Users include: The Enid

- Good amount of control: glide, 'rag', timbre and vibrato delay and depth, attack, decay, filter emphasis, 8' and 16' volume, master volume, vibrato speed and depth.

Interface: ★★★★★	VFM: ★
Sounds: ★	Character: ★
Controls: ★★	Collectability: ★★
Memories: ★★★★★	Ease of use: ★★

● **COMPAC** – 61-note electronic piano c.1966 – c.1978. Limited, very early electronic piano without touch sensitivity.

Original price: £225

Target price: £50

Users include: The Beatles, Billy Preston, Edgar Winter.

- Two voices – piano and clavichord.
- Vibrato speed and depth variable.
- Used on *Sergeant Pepper* – notably the classic clavichord arpeggios on intro to 'Lucy in the Sky with Diamonds' and perhaps worth looking out for for this reason alone.

Interface: ★★★★★	VFM: ★
Sounds: ★	Character: ★
Controls: ★	Collectability: ★★
Memories: ★★★★★	Ease of use: ★★



● **COMPOSER** – 49-note string/brass/poly-mono synth with breath control. 1982 – 1985.

Original price: £799

Target price: £100 – £200

Users include: Massive Attack

MT review: Apr '84

- Monosynth featured seven presets, ADSR and usual VCF controls, plus breath control (all shared with poly section), touch sensitivity and pitchbend. Assignable to lowest or highest note played on keyboard. Decent results from modifying presets or setting up own 'free' sound.
- Organ featured four presets, two percussion types with volume and decay controls, Leslie imitator with slow and fast settings. Average.
- Polysynth featured three presets plus controls shared with mono section; two oscillators transposable by up to an octave each, detunable; modulation wheel.
- Strings were not very pleasant, except as background for other sounds.
- Single keyboard trigger can spoil promising layers of sound.
- Breath controller comprised a longish bit of black tubing with simple mouthpiece. You look silly, it needs practice, but, like the Yamaha CS01, it can sound great.
- Clear design, good build quality.
- Four separate outs and main out, plus mixer.

Interface: ★	VFM: ★★
Sounds: ★★	Character: ★★
Controls: ★★	Collectability: ★★
Memories: ★	Ease of use: ★★★★★

● **DS1** – 44-note, 2-DCO monosynth. 1978 – c.1980.

Original price: Unknown

Target price: £120 – £160

- Basically a capable, well-specified 2-oscillator, 2-LFO monosynth.
- Two ADSRs, independently switchable oscillators (4th - 32nd), both with sawtooth, square and triangle waves, and DCO 1 with pulse-width control set manually or modulated by either LFO.
- Excellent LFO control and modulation routing, including, on one of the LFOs, sample and hold and staircase waveform.
- Switchable white/pink noise generator.
- One of the very first synths to have DCOs – and thus more reliable tuning, but a less interesting sound.
- External audio in – routed straight to VCF/VCA.
- Some controls not effective over their entire length.
- Gate in and out, (but no CV), headphone socket.
- Quirky but generally pleasing design.

Interface: ★	VFM: ★★
Sounds: ★★	Character: ★★
Controls: ★★	Collectability: ★★
Memories:	Ease of use: ★★



- DS2 – 44-note, 2-DCO monosynth with string synth section. 1978 – c.1980.
- Original price:** £645
Target price: £160 – £220
- Users include:** Mel Wesson (TV Smith's Explorers)
- Effectively a DS1 with simple polyphonic background section.
 - Polysynth has high and low-pass filters, and can use either of LFOs.
 - Footswitch used to bring poly section in and out.
 - Separate mono and poly outs.

Interface: ★	VFM: ★
Sounds: ★★	Character: ★★
Controls: ★★	Collectability: ★★
Memories:	Ease of use: ★★

- **HAVEN TRAVELLER** – Combo organ
- Users include:** Annie Lennox/The Tourists



- **MULTIMAN** – 61-note string/brass/piano synth (Multiman S re-design – 1977). 1975 – c.1981. (Known

- as 'Orchestrator' in USA)
- Original price:** £499
Target price: £60 – £100
- Users include:** Stereo MC's
- Brass: filter attack, decay, emphasis and amount controllable.
 - Strings: vibrato switchable, violin and cello sounds splittable either side of keyboard split.
 - Neither piano nor clavichord presets are particularly realistic, but clavichord is better.
 - Separate bass control on bottom octave or optional pedalboard (£49).
 - Separate output for piano/clav. Socket for sustain pedal.

Interface:	VFM:
Sounds: ★	Character: ★
Controls: ★	Collectability:
Memories: ★	Ease of use: ★

- **MULTIMAN S3** – 61-note string/brass/piano synthesiser. 1981 – c.1983.
- Original price:** £649
Target price: £70 – £100
- Totally re-designed and re-jigged front panel.
 - Other changes from original Multiman/Multiman S include extra controls on strings – crescendo and timbre; improved modulation; detune; an organ preset; and separate out for bass as well.

Interface:	VFM:
Sounds: ★	Character: ★
Controls: ★	Collectability:
Memories: ★	Ease of use: ★

- **ORGANIZER** – 61-note synthesised organ (Organizer B re-design – 1977.) c.1974 – c.1980.
- Original price:** £429
Target price: £60 – £80
- Users include:** Madness
- (Slightly flimsy) drawbars to left of keyboard.
 - Percussion attack and level controls.
 - One and a half octave bass sounds, tabs that light up.

Interface:	VFM: ★
Sounds: ★	Character: ★
Controls: ★★	Collectability:
Memories:	Ease of use: ★★

- **ORGANIZER T1** – 61-note organ synthesiser. 1981 – 1983.
- Original price:** £575
Target price: £100 – £120
- Users include:** Barry Andrews (XTC, Shriekback), George Duke, Annie Lennox.
- Nine main drawbars and Two percussion drawbars in centre of control panel.
 - Three preset footage registrations and 'full on'. Fourth button selects drawbar control.
 - Good control of percussion at a wide range of different footages.
 - Leslie simulation, including slow-down/speed-up. Two key-click options.
 - Synth bass section on bottom two octaves – mixed or split.
 - Two basic presets plus filter cutoff and resonance controls.
 - Pitchbend lever (like pinball flipper), vibrato and tremelo.
 - Good range of Vox/Farfisa and straight Hammond sounds – but to get anywhere near the classic 'gutsy' Hammond sound requires outboard overdrive/gentle fuzz – and possibly a valve amp.
 - A reasonable and cheap alternative to the Korg CX3, if you add the overdrive.

Interface:	VFM: ★★
Sounds: ★★	Character:
Controls: ★★	Collectability: ★
Memories: ★	Ease of use: ★★

- **ORGANIZER T2** – 2 x 61-note organ synthesiser. 1981 – 1983.
- Original price:** Unknown
Target price: £150 – £250
- Users include:** Mike Barson (Madness), George Duke, Dean Klavett (Lene Lovich).
- Upper manual identical to T1; lower manual presets different.
 - Bass pedals (18-note) available.
 - A reasonable alternative to Korg BX3, if you add the overdrive.

Interface:	VFM: ★★
Sounds: ★★	Character: ★
Controls: ★★	Collectability: ★
Memories: ★	Ease of use: ★★

- **PERFORMER** – 49-note string/brass synthesiser. c.1978 – 1983.
- Original price:** £379
Target price: £60 – £150
- Users include:** Mats Oberg, Nick Rhodes.
- Meaty brass sounds – so much so they work well as monophonic bass lines.
 - Brass section features variable attack, decay, filter cut-off and resonance controls.
 - Classic 8' and 16' string synth sounds – buzzy, phased and chorussed.
 - String section features attack and decay controls plus 3-band EQ – effective in making them sound more realistic.
 - Only single filter, so envelope only works when there isn't a note already held down.
 - LFO modulation of pitch or filter, with variable rate and depth.
 - Much sought after in USA.

Interface:	VFM: ★
Sounds: ★★	Character: ★
Controls: ★	Collectability: ★(★★ in USA)
Memories:	Ease of use: ★★



- **PERFORMER 2** – 49-note string/brass/organ synthesiser. c.1983.
- Original price:** c.£499
Target price: £60 – £100
- Users include:** Thomas Dolby
- Re-designed front panel, much smarter.
 - One tone control slider and (not very impressive) organ preset instead of 3-band EQ on strings – a shame.
 - Detuning available on brass and organ.

Interface:	VFM: ★
Sounds: ★	Character: ★
Controls: ★	Collectability: ★
Memories:	Ease of use: ★★

- **POLYTRON** – Fully polyphonic synthesiser. c.1980. Never went into production.
- Projected price:** £900 – £1000

to be continued

IN CASE YOU THINK SOME ADVERTISERS WE DECIDED TO LET THEM

Keyboard Player — John Bates

"The standard of programming has to be heard to be believed."

"The backings are possibly the best produced for any instrument, both in capturing very specific styles and overall playability."

"It's an addictive joy to play."

Keyboard Review — Simon Trask

"The striking appearance of the keyboard's sizeable backlit LCD with its clear white lettering on a deep blue background makes the average synth LCD window look positively weedy."

"Someday all hi-tech instruments will be made this way."

Sound on Sound — Martin Russ

"The stunning aspect is the way that the instrument uses all of its capabilities in a co-ordinated manner, the exact opposite to the way in which pro gear works. The KN2000 works with you to produce a performance whereas most workstations need to be forced into it!"

Future Music — David Robinson

"There is probably no digital keyboard that has a spec this high and yet has a design that keeps its operation supremely easy."

Making Music — Julian Colbeck

"This thing is incredible."

"Yamaha's PSR 5700 was good — no excellent. But even though the Technics KN2000 costs more, it offers the musician a lot more, and is, in my opinion, better still."

Music Technology — Simon Trask

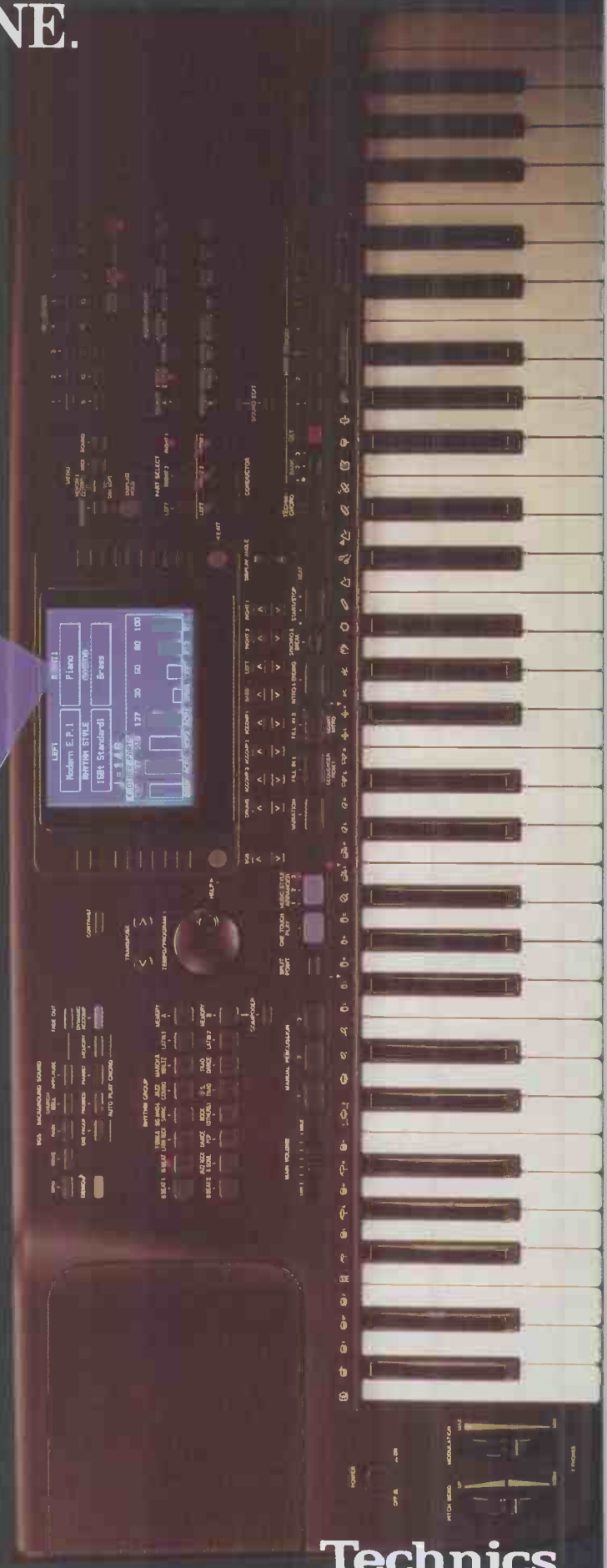
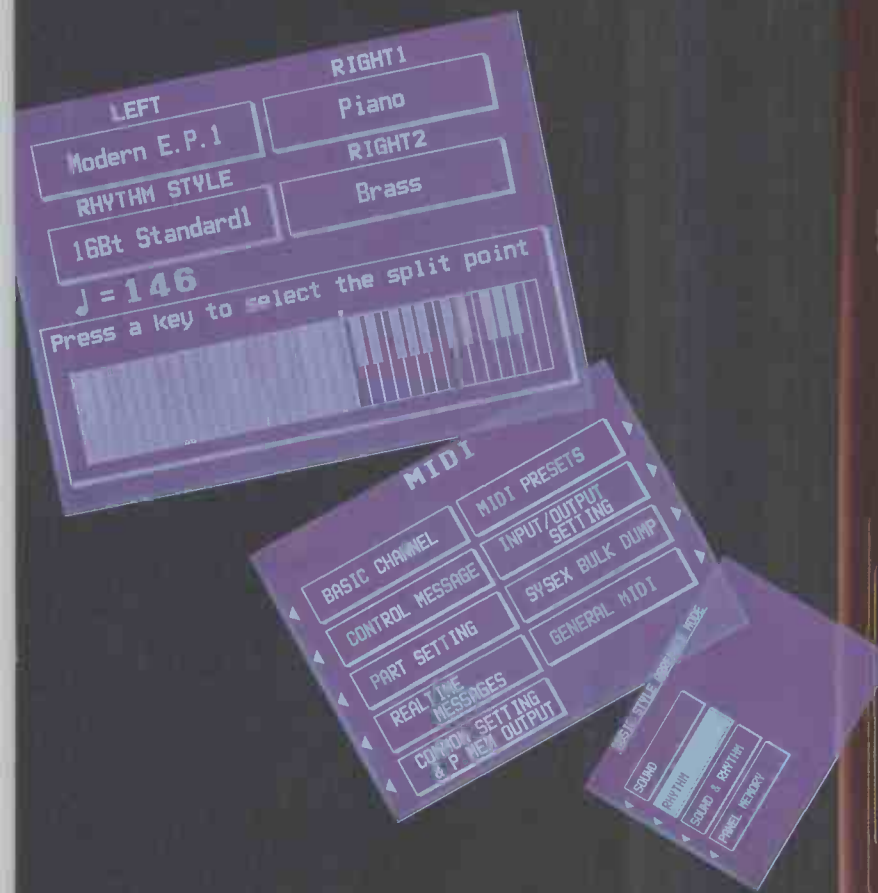
"The KN2000 provides one of the most sophisticated and versatile implementations of effects processing to be found on a keyboard."

"All in all, the KN2000 ushers in a new era of keyboard confidence and power."

THE KN2000. SIMPLY LIGHT YEARS AHEAD.

CALL: 0344 853177 FOR YOUR FREE KN2000 INFORMATION PACK AND FREE CD OR CASSETTE.

PLAYERS ARE PRONE TO EXAGGERATION, CRITICS WRITE THIS ONE.



new
**DYNAMIC
PCM**

**GENERAL
MIDI**



Technics
Music Academy
Quality Music Education

Technics
For Music Lovers.

Pooling resources

After a decade of producing quintessential UK synth-pop together, the trio of Paul Humphreys, Martin Cooper and Mal Holmes decided to quit OMD and leave Andy McCluskey to it. They also decided to start from independent scratch, forming Telegraph Records, a band called The Listening Pool, and utilising an opulent home studio chez Paul in the continuing search for the perfect song. The first album is almost in the can, and the single 'Oil For The Lamps Of China' was released on July 12th, so Phil Ward headed home to Merseyside for a bit of a dip into The Listening Pool himself.

He found Paul and Martin not only feeding the squirrel in the garden, but also with plenty to say on technology, pressure, self-control and songwriting.



On leaving OMD

Paul: "One of the reasons why we left OMD was because we were doing far too much live work, and it was really detracting from the songwriting. Songwriting became secondary to getting out on the road, and getting product out as fast as possible. So the product was suffering, and we never want to be in that position again. We're not going to do any 9-month tours, and all the crap that goes with it."

"We just weren't developing. You get maybe one month a year to write a whole batch of songs, and that's no way to develop your songwriting. In the latter stages of OMD, we just weren't happy with the records. No time was allocated in the schedules for writing. We never even had the time to experiment; it was just pressure, pressure, product, product. There was no exploration, for that one idea in 20 that works. Since then it's been a process of self-discovery, and discovery of a lot more music."

On balancing technology and people

Paul: "We're still technologically based, although we do use a lot of acoustic instruments as well. It's finding the right balance, really..."

Martin: "The drums are all loops, but mostly from Mal. We do long takes from the real kit, and then edit them down."

Paul: "We like to capture actual performances, and load them into StudioVision. It's then a matter of using the technology to sort out the best possible arrangements. Like with the vocals, we'll do a demo here, with the proper vocal takes, then take that into Parr Street Studios [formerly Amazon] in Liverpool and rebuild the track around the lead vocals. It's an odd way round, starting with a finished vocal and time code, but it works. We also sample the vocals and fly them around, too, if needs be."

Martin: "We have the facility to record direct-to-disk here, with StudioVision, but the Tascam 16-track is so good we do all the vocals on that. For the backing tracks, we commit really late to tape, because we can have all the sequenced stuff running live. There are MIDI delay problems, but you can compensate for those on tape."

Paul: "But there are a lot of 'real' elements on the album. We use the technology in the way it's all put together, processing live stuff and flying it around, and even making new parts out of the played parts - editing them so much that you've actually created a new part, that the musician didn't play, but which still *sounds* played. That's the beauty of the technology available now. We want to keep a band feel, if we can, but still retain overall control."

"It gives it life, and it even brings the technology to life, because against a played segment, an entirely sequenced part suddenly comes alive too. We sequence everything for the demo, then consider which sounds would be most suitable for each part, and if something requires a guitar sound, we'll get a guitarist in to play it."

Martin: "That's the convenience factor, being able to approximate all the sounds here, programming the keyboards to do guitar-ish parts and drum parts. And when we've sorted out the song, we can get people in to play."

Paul: "At that stage we can also capture performances in which the player is just doing what he feels like, giving us even more material that we can sift through and sample at will."

Martin: "We get the players - and backing singers - to do what we've got in mind, and then ask them to just mess around and do what comes naturally. It doesn't alter the song, but it brings it to life by altering important little details, things you would never have thought of."

Paul: "It's important to get other people's input, after the intended session. You can become so close to a song that you're blinkered, and suddenly you can get a fresh perspective."



On songwriting

Paul: "We see ourselves as songwriters, and as such you always want the best tools to help you achieve what you want, and technology is the way to go. It's just so incredibly useful: for example, being able to bring home a 12-inch mix and edit it ourselves, in our own time. Total flexibility."

"But you have to be tough on yourself, not to lose sight of what you're aiming at. There are times when you've just got to switch everything off and put a song to bed, till you can come up with the ideas."

Martin: "There's often a point when it's just not working as a whole, but you can keep sections, like a verse, and it'll pop up later, maybe in another song."

Paul: "All our songs start from a basic chord progression, often written on the piano. We never set out to write a song on a particular day; ideas are brought into the studio, and everybody can respond or not once there's a starting point. OMD always worked that way. But because of the limitations of the technology, it sounded like we were really experimental! Ironically, we're using more technology now, but it doesn't *sound* like it."

"We grew up with Bowie, Eno and Kraftwerk, and it was a completely different sound, but Kraftwerk especially were still writing songs – great songs, like 'Radioactivity' and 'The Model'. You could do an acoustic version of that and it would still work."

On the role of sampling

Martin: "Samples work best when they are obviously samples, not when they emulate real instruments. If you want a real trumpet or piano, you may as well use one."

Paul: "We've got a track called 'Say Your Last Goodbye', which has got Harry Dean Stanton's voice on it, but it's so obviously a sample, and not him sitting in the studio, that it gives it an atmosphere. There's something about it that works within the track."

On Mal Holmes: the drummer and technology

Paul: "He's a great drummer, but he got into technology in a big way when he discovered that you can sequence things that are in your head that are beyond conventional playing, and then go away and learn them, with a constant reference point."

Martin: "That's why it's such a great learning tool: you can analyse what's going on with different instruments, and you have the instant gratification of getting involved."

On Telegraph Records and going indie

Paul: "There was a few years' delay because of legal issues, which meant we couldn't do anything, but that was probably a blessing in disguise, because we could really concentrate on songwriting at last! We hadn't had so much time to write since before OMD started, so it helped us to develop. We flirted with a few labels, but ultimately we wanted to be in control of absolutely every part of what we're doing. Having our own label always appealed to us; we really enjoyed the time we were on Factory Records – a small setup, but small setups can keep control if you use the distribution network properly and get the right licensing deals."

"It would also be nice to develop the label, because there are loads of artists that we hear with great songs who can't get deals. There's some brilliant stuff out there that's not getting signed. Ultimately, it's not just The Listening Pool that's our main goal. We love music, and we may put out other things, including what we do under other names, which you don't have the flexibility to do on a major label. We said we were going to do an instrumental album ages ago... and now's our chance!" ●

The equipment pool

Synths

- Roland D50 (used as the master keyboard)
- Roland Jupiter 8

Paul: "Most of the keys on 'Oil' are this played manually. We still use a lot of analogue sounds, and record onto tape so we can use lots of sounds from the same synth. Usually this one!"

- Roland SH09

Martin: "It's only mono, but you create a unique sound every time you use it. Then you can just sample it for storage."

- Roland Super Jupiter
- Roland P330 piano module

Paul: "Closer to a real piano than a sample, even though it's analogue... once you've tweaked the factory sounds, that is."

- Obierack

Paul: "This an old Oberheim in a 2-module rack, each 2-note polyphonic thanks to the two oscillators. Seriously hard to program, but great sounds."

- Oberheim Matrix 1000

Paul: "All presets, but there are a thousand of them, and every time we need to we just scan through here and always find something that sits well in the track."

- Akai EW1 2000 wind synth

Paul: "Mart plays this: it's an incredibly hard technique, because your fingers hover over the notes but don't actually touch".

Martin: "But having the breath control over vibrato is marvellous. It's so much more than just a MIDI controller: you can play the D50, but feed the output back into it, and all the filters change, giving you a real analogue richness. If you blow harder, it sounds brighter, not like just triggering a sample."

- Korg M1R
- Midimoog
- Yamaha TX802 expander

- Yamaha RX5

- Yamaha FB01 (x2)

- Yamaha MJC8 MIDI patchbay

Paul: "Great for switching between two sequencers when you've got both Macs running..."

- Microwave

Paul: "The presets aren't that great, but once you get your head round it it's very flexible. It's another of those multifunction things, with five buttons that do 300,000 things. We're waiting for a Mac editor for it..."

- Prophet 5 (x2)

- Rhodes Chroma

(plus two ex-OMD Mellotrons which have gone missing. If anyone knows where they are, do tell)

Sampling

- Emulator I/HD

Paul: "Great for adding noise and shit. We used to have three of these on stage, in the days before the Akais..."

Akai S1000, 44Mb removable cartridge (used also as a backup drive for the Mac)

Computing/sequencing:

- Apple Mac IIx
- Sound Designer
- Sound Accelerator card
- Opcode MIDI system
- StudioVision
- SoundTools
- Mastertracks Pro 5

Paul: "Quite often we'll have StudioVision running on the IIx, with digital audio, and Mastertracks running on another Mac – the one from the office! – doing the MIDI sequencing. It's all sync'd up from the tape, with the tape running the IIx, and the IIx running the other Mac. StudioVision gives you digital audio and MIDI sequencing in the same package, of course, which is great. But Mastertracks is just so simple, while it does everything you want a sequencer to do."

Recording

- Tascam MSR-16 half-inch 16-track
- Studer A-80 1-inch 8-track
- Studiomaster Series 2 console
- Sony DTC1000ES DAT

MORE ADVENTURES IN TIME AND SPACE

BUY ANY 3 AUDIO CDs (MINIMUM ORDER VALUE £119), AND GET A 4TH CD OF YOUR CHOICE FREE (VALUE UP TO £49.95) OR BUY ANY 3 CD-ROMS (MIN. ORDER VALUE £395), AND GET A 4TH CD-ROM OF YOUR CHOICE FREE (VALUE UP TO £199)*
 *YES WE'RE STILL RUNNING THIS "4 FOR THE PRICE OF 3" OFFER - BUT NOT FOR LONG! AND THAT'S NOT ALL - YOU NOW ALSO GET A FREE "WHAT'S NEXT!" SHOWCASE CD (1000 SAMPLES) WITH EVERY ORDER OF £100 OR MORE, WHILE STOCKS LAST (ONLY 100 LEFT SO HURRY!)

WELCOME TO THE WORLD OF SAMPLING

Here at Time+Space, we have only one goal. To seek out all of the world's very best sound libraries on CD and CD-ROM, bring them all together in one place, and make them available to you - FAST - when you need them. We know our reputation is on the line every time you make a purchase, so we carry only the highest quality products available, from the world's best developers.

The sampling world is exploding. Just as computers revolutionised the business world and continue to do so; musicians, producers, engineers and DJs now realize the incredible power samplers can provide in the musical work environment.

Apart from the unparalleled ability to turn any audible sound into a musical composition, samplers have reached a stage of technical sophistication that eliminates obsolescence. Instead of buying new equipment every year to get all the latest sounds, you can now add them all to your sampler for a fraction of the cost. We promise that we will always strive to assist you in your quest for effective and inspiring sounds to suit your particular musical needs. Call us!



OUR NEW SHOWCASE CD Free!

SAMPLEMANIA
 The brand new Time+Space Showcase Sample-CD. Packed with 79 mins of samples & demos from nearly all existing & future products. It's FREE with any order, and don't forget - if you buy 3 products you get ANOTHER FREE CD of your choice (value £49.95) as well!

"Samplemania" - the brand new Time+Space Showcase Sample-CD. Packed with 79 mins of samples & demos from nearly all existing & future products. It's FREE with any order, and don't forget - if you buy 3 products you get ANOTHER FREE CD of your choice (value £49.95) as well!

PLEASE NOTE: The "SAMPLEMANIA" CD is currently being manufactured and will not be in stock until approx. end OCT/93, but we still have about 100 copies of our previous "What's NEXT!" showcase CD left, which contains over 1000 samples - you can get this free with any order over £100 right now. But as soon as we have stock of "Samplemania", it will no longer be possible to get "What's NEXT!" free. Each of these offers is limited to one per household, while stocks last, so hurry!



XL-1
 THE SEQUEL TO THE X-STATIC GOLDMINE!
 NOW ONLY ~~£49.95~~ FOR 2 CDS!
GREAT VALUE

As the exclusive UK distributor of the X-Static Goldmine and XL1 we are delighted to be able to announce that Polestar have reduced their worldwide prices, allowing us to offer you these astounding products at EVEN BETTER value - ONLY £49.95 for each double CD package, starting from 1 OCT 93! Wow! 3000 samples for under £50? They must be having mad! XL-1 is a new concept that makes it easier for you to judge a sample's character, groove & feel by presenting them in unique "CONSTRUCTION KITS" as well as "the traditional way".

HERE'S WHAT YOU GET ON THE FIRST CD OF XL-1:
 • Construction Kits: Each has 30 Samples (Loops, Drums, Bass, Instr, Vox, FX etc). As shown in the short Demo of each track, all samples work in a musical context and at the given BPM. Lots of effort & time went into these tracks to give you the inspiration & feel of all the different sounds, styles & moods.
 • Drum & Percussion: In total 360 samples of all types, all originating from Dance Trax of all eras.
 • DAT back-up Section No. 1: All the drum & percussion sounds from trax 61-90 of the CD, sampled & mapped for the AKAI S1000 & S3000 samplers. Ready to play!
 AND ON THE SECOND CD OF XL-1:
 • Hip-hop/perc. loops/rare grooves from jazz to funk. Relaxed & kicking.
 • Tekno/house Loops: hardcore breaks & pounding housebeats. For clubland & ravers.
 • Rolls & Breaks: Ragga, Funk & Jazz Breaks to spice up your beats.
 • Jazz & Funk Bass: Acoustic & electric tones & loops for solid foundations.
 • Bass Synths & Techno Loops: sub & dub basses, Rave Riffs, Acid Loops & Garage Samples.
 • Funky Stuff: Hammond, Leslie, Rhodes, Pianos, Clavinet, Funky Guitars, Sax, Trumpet, Horns, Stabs & Squeals.
 • Chords, Sweeps & Pads: A Huge Collection of Tekno Chords, Bleeps & Trance Tones. Analog Sweeps and Chill-Out Pads. From The Frantic to The Trill.
 • Fx & Vox: Wails, Shouts, Chants, Mystique, Spins & Bangs, to mention a few.
 • DAT Back-Up Section No. 2: All the Drum Loops from Trax 1 to 30 of the CD, sampled & mapped for the AKAI S1000 & S3000 SAMPLERS. Ready to play! In Total More Than 2500 Samples - MASSIVE!
CD ROM version also! - CONTAINS BOTH X-STATIC AND XL-1 ON THE SAME DISC!! £199.00

PRICE REDUCED! FROM 1 OCT '93

And from the same producers, the **X-STATIC GOLDMINE** - STILL ONE OF THE HOTTEST DANCE SAMPLE COLLECTIONS IN THE WORLD - OVER 3000 SAMPLES

NOW ONLY ~~£49.95~~ FOR 2 CDS!



Peter Siedlaczek's CLASSICAL CHOIRS
£49.95

Out now! This vocal sample collection is an absolute masterpiece which crosses all musical dimensions. On audio CD and on CD-ROM for Akai S3000/1100/1000 and Ensoniq EPS samplers, only from Time+Space. Featuring a philharmonic choir with worldwide credits. Up to 70 singers. Awesome vocal power. A brilliant recording in an outstanding concert hall. Male, female and mixed choirs, in third steps (semitones). Bass, tenor, alto and soprano voices.

Nothing has been left out in order to guarantee a very wide range of application: ensembles, clusters, sustained notes, syllables, words, sandi, smooth, percussive, or plianissimo - the variety is enormous. Not only important vowels, but even consonants like "ZZZ", "RRR", "SSS" (the ones which it is possible to sing!).


There's no doubt about it - this is top-class workmanship suitable for all users of modern sampling technology. At last, a true sampled choir - and you don't have to pay a top orchestra session fees to get it!



ZERO-G GROOVE CONSTRUCTION
£39.95

Imagine you were able to break down classic loops and breakbeats, and then refine them to the exact needs of your track. With GROOVE CONSTRUCTION you can! "Well organised, superbly documented... helps preserve individuality... loops with which you can mess around and lead something of your own identity." (Music Technology) This CD/MIDI-file package covers all the current dancefloor grooves: 1: TECHNO / EURO. 2: RAVE / HARDCORE. 3: HOUSE / GARAGE. 4: HIP HOP / RAP. 5: STREETSOU. 6: 70's FUNK. 7: NEW JACK SWING / U.S. DANCE. Each set has 20 classic groove/loops and the 25 best samples for that style. You get the loops, the individual sounds, & the MIDI sequence (rhythm pattern data) on floppy disk as a standard MIDI file for any Atari or Mac-based sequencer. It's all straight-forward, logical, yet so powerful. No sound appears in more than one percussion set, and where possible, the position of each percussion instrument on the keyboard, confirms to MIDI General Standard.

PRODUCED FOR TIME+SPACE BY M.J. DUNNE OF RONJON PRODUCTIONS



Peter Siedlaczek's ORCHESTRA CD-ROM
£199.00

Peter Siedlaczek's Orchestra CD-ROM. Out now! The professional's version of the well known audio CD. Now available on CD-ROM for Akai S3000/1100/1000 samplers, only from Time+Space. The world's best sampled orchestra library - and it's already been professionally sampled, edited, looped, and mapped out on the keyboard, ready for you to load into your sampler and play!!! The orchestra was recorded ff and pp in a large concert hall with the entire orchestra playing together; and then ff & pp with only the strings sections playing.

At last you will now have an entire orchestra at your fingertips, plus the string sections are perfect for those lush string pads & lines. Also, another 11 categories are provided to enable you to make your music sound as authentic as possible. The ambience of the hall adds an aural dimension & realism that is hard to achieve with other orchestra sample libraries.

Great care was taken with the looping of these samples on the CD-ROM version, to ensure a smooth natural sustain. The sound quality is stupendous. The orchestra & string samples are mapped over six octaves and sampled every 3 semitones, and all of the sounds have been sampled 3 different ways: (a) 44.1k stereo; (b) 32k stereo; (c) 44.1k summed mono. This was necessary in order to provide many different combinations within the many programmed performance banks on the CD-ROM, and to manage memory easily and with great flexibility.

Mastering the programmed touch sensitivity allows you to re-create a realistic orchestra. Most of the presets switch from separate soft & loud samples seamlessly depending on how hard you hit the keys - as if you were conducting the orchestra yourself!

Over a year of programming & recording went into the making of this product. The absolute best. Why buy the audio CD version? Only £199.00 inclusive.



DANCE & Industrial
PRICE REDUCED!
£39.95

"A hard fist-full of deadly loops & hard-edged percussion to give your tracks attitude" (Future Music, UK)
"THIS IS ONE MOTHER OF A SAMPLE CD, GO OUT AND BUY IT NOW!" (Music Technology, UK).

• ALL ORIGINAL LOOPS • MIDI-FILE FLOPPY • ALL STEREO
 • INDEX POINTS FOR ALL SAMPLES

On audio CD or CD-ROM. Load loops into any sequencer from midifile disk so you can change individual samples in a loop; change the tempo without changing the pitch; cut and paste loops together etc.

"An education in itself... a hands-on insight into how the pros do it... lives up to expectations... pristine quality." (Sound-on-Sound, UK).

CD: £49.95 including midifile disk (ATARI or MAC).
 CD-ROM: £199 (AKAI or SampleCell). NEW! Limited Edition (100 Megs) Akai CD3000 version of the CD-ROM just released - only £139.00



DANCE & Industrial II THE SEQUEL
2 CD £59.95

Our longest awaited product ever! This will undoubtedly be one of the most influential sound libraries of 1994. It's a DOUBLE CD, not one, and every single loop has a corresponding MIDI-file on the accompanying floppy disk. The quality of both audio and programming is out of this world. This product is aimed straight at the top end of the pro market - and like its predecessor, it will make a big splash.



Bob Clearmountain DRUMS II
£49.95

INTRODUCING THE SEQUEL
 to the world's best selling drums sample library from top producer/engineer **BOB CLEARMOUNTAIN**

The most unique and innovative feature of DRUMS II is the ability to play the samples with TRUE DYNAMICS (especially when triggered by pads). Most of the sounds on DRUMS II were recorded with SOFT, MEDIUM and HARD hits to enable complete control over the dynamics of the performance. Usually only a single sample is adjusted in level in your sampler to imitate dynamics. However, a drum sounds completely different when hit soft, medium or hard. Capturing these differences in the recording is the only way to provide true dynamic control and SOUNDS THAT MATCH the performance.

The CD features hundreds more brilliantly recorded drums (some processed with the famous Clearmountain touch) and loads of crisp new cymbals & hi-hats. Now only £49.95 "Due to Clearmountain's immaculate recording techniques and clear understanding of sampling musicians' needs, Drums II is top of the heap. 10/10 for quality AND selection." (Keyboard, USA)
 Also still available: the very highly respected & essential Vol. 1 "DRUMS I" and Vol. 2 "PERCUSSION & BASS", still only £49.95 each (Also available on CD-ROM in AKAI, SampleCell & Emulator III formats, only £199.00)

THE WORLD'S LARGEST SELECTION OF SAMPLED SOUNDS ON CD AND CD-ROM FOR ALL SAMPLERS

Barbara Dennerlein's Hammond B3



This CD is a MUST for anybody EVEN REMOTELY INTERESTED in the WONDERFUL SOUNDS of the Killer B3!"

Studio Sound, UK)

£49.95

100's of unique Hammond B3 organ grooves, riffs, licks & FX. Barbara Dennerlein's organ technique is legendary! A star attraction at major Jazz Festivals worldwide, she's also known for many bums of high international repute. This sample-CD is well in line with that legend. We are talking world-beating B3 jazz & funk!! - for rhythm, feel, drive & groove cannot be mistaken. Special features: House & techno inspirations; a dozen chromatically sampled Hammond B3 sounds with & without Leslie FX; 23Mb data back-up section for Akai S1000 incl. keyboard mapping. Also comes with a floppy disk containing 15 minutes of completed arrangements (Blues/Jazz/Funk). Whether it's high quality multi-sampled B3 organs or great techno-style organ loops you want, this CD has to be checked out! Only £49.95 incl. MIDI-file disk.

DNA BEAT BLOCKS featuring Clyde Stubblefield



£54.95 **NEW**

Optional Groove Templates & MIDI-file disk: £5

Clyde Stubblefield - The Funky Drummer on James Brown's biggest hits!

A new technology to marry MIDI to Audio! : DNA Groove Templates. Each loop has an accompanying set of DNA Groove Quantize Templates for popular sequencers - they lock events in the MIDI world to THE PRECISE FEEL of Clyde's playing in the real world. No more moving of individual notes clock by clock to get them in the groove. (specify ATARI, MAC, or IBM PC format).

IF YOU THINK CLYDE WAS HOT BACK IN '69, HANG ONTO YOUR HATS - HE'S EVEN HOTTER NOW!

ZERO-G Technotrance



£49.95

Classic synth & FX samples, each presented with a short demo so you hear how effective they are before sampling. Sounds you always wished you had, with accompanying advice for using effectively.

1. Classic Rave Synths, Special Rave FX, and Rave & Hardcore Bases: - sheer power.
2. Progressive House Hooks and Top 20 Stabs - sounds that stay in people's minds after first hearing.
3. Techno Synth FX & Chords & Techno Piano Chords.
4. Breakdown Pads - dreamy chords & notes.
5. Cross-faded Trancers, Filtered Synths & Bases - PROGRESSIVE sounds.
6. Acid Bases & Bubblers & Talking Bases.
7. Top-end Tinklers & Euro-style Synths - give your mix that cutting edge - very Trancey!
8. Analog Corner - old Wasp, Moog, ARP, & Juno off-the-Wall FX.
9. Shattering Sub Bases. Watch the speakers!!
10. Classic House & Garage FX. Stab piano, Organs & Sax.
11. Industrial FX - "Klings & Klangs".
12. Ambient Atmospheres. Dreamscapes etc.
13. Ethnic Experiences - a touch of the exotic.
14. Effected Drums.

PRODUCED FOR TIME+SPACE BY M.J. DUNNE OF RONJON PRODUCTIONS

Albie Donnelly's Killer Horns



£49.95

IT NOW on both audio CD (70 minutes, £49.95) AND on CD-ROM (Only £39.00). This brass sample collection, put together by Best Service in Germany, is sure to become a standard studio item for R&B, funk & Soul production. And incredibly, the CD-ROM version is a "Mixed Mode" CD-ROM - it is a combined version of an audio CD (5 min) and CD-ROM (170 Meg), and is available NOW in 3 formats - Akai, Emu IIII, and Ensoniq EPS. Albie Donnelly, from verpop, bandleader of "Supercharge", and studio professional, has led out all the stops for this project. All material is original, and includes hundreds of Riffs, licks, Shots, Stabs, Falls & Swells. Also complete sections, and a wide variety of tones. The definitive horn sample CD for Dance-orientated production. Alto-, Tenor-, & Tritone-Sax, Trombone, & Trumpet. Albie invited many of the world's 1st horn players to participate in this CD! OVER 1300 SAMPLES.

BRASS AT IT'S BEST!

DNA BEAT BLOCKS featuring Wilson Laurencin



£54.95 **NEW**

Optional Groove Templates & MIDI-file disk: £5

FUNKY DRUMS FROM HEAVEN!

Slamming playing, 78 mins., 550 live drum loops (all-original), complete with revolutionary DNA Groove Templates AND midi-files for EVERY loop. Wilson is definitely one of the funkiest & most technically proficient drummers we've ever heard. His ability to play simultaneously with both style & aggression gives each loop a unique distinctive character. A very wide variety of sounds & combinations, from crystal clear kits to massive & daring effects, using top-notch outboard gear. Includes useful tips on drum arranging.

HYPERSPACE AKAI CD-ROM



£199.00

HYPERDANCE AKAI CD-ROM



£199.00

Zero-G Masterclass Series Funk Guitar



£49.95

AKAI CD-ROM VERSION ALSO AVAILABLE

Produced by lifelong funk-head **VLAD NASLAS**

THE DEFINITIVE SAMPLE CD FOR CLASSIC DANCE GUITAR RHYTHMS AND EFFECTS

Meticulously prepared & presented... virtually noiseless... engineering & playing first class... cool, fresh & funky... a definitive collection... the best I've heard... light years head of the previous competition" (Sound on Sound, UK).

Irresistibly catchy stuff... pulsating riffs just begging to be put over aumping dance beat... will crop up on countless chart & club hits." (Amiga, UK). "Zero-G's Funk Guitar is, with distinction, the best sampling CD at the moment" (Keyboards, Germany)

Guitar rhythms, timbres & FX from cool & slinky to hot & bothered, from the mellow chug of early JB's incl. many different 'wah' sounds through 70's Fusion & Disco, incl. the 'Talkbox', to the cutting 80's dance sounds, and new programmed off-the-wall FX, incl. robot-type sounds, vocoded guitar, & rhythmic gating loops. The warm open end of classic funk/dance, recaptured by using the guitars, amps, and FX of the period. CD-ROM version out now!! - includes 30% extra material - an unbeatable guitar resource for discerning studio professionals. And you can trade in your audio CD version for £33!!

Zero-G Funk Guitar CD-ROM



£199.00

DNA BEAT BLOCKS featuring Armando Borg Percussion Incognito



£59.95 **NEW**

INCLUDES Groove Templates & MIDI-file disk

This third & final package in the Beat Blocks series will be immensely successful since it fills a big gap in the average producer's sample repertoire. Key features are - Incredible musical versatility, very large percussion selection, masterful playing, over 500 percussion loops, with tempos ranging from 50 to 170 bpm!!

Armando Borg is a master percussionist of the highest order. With his knack for subtlety & invention, this is by far the best collection of percussion grooves ever assembled. Armando plays stylish impossible-to-program patterns with Agogos, Bongos, Cabasa, Congas, Clave, Cowbells, Guiros, Maracas, Panderos, Rain Sticks, Shaker, Shakerays, Tambourine, Timbale, Triangle, Woodblocks, + other misc. instruments. Patterns offer a wide variety of styles & tempos, & offer a much greater degree of versatility than drum grooves. For example, often the same pattern can be used in House, Reggae, Soca, Techno, Calypso, Latin, Jazz, Soul Ballad, Rap or Fusion.....this is a CD for everyone.

The floppy disk

contains DNA Groove Templates (i.e. quantise templates for use with Steinberg Cubase, so you can match the timing of your own programmed midi parts to the feel of Borg's live playing in the percussion loops) and MIDI-files (standard files of every loop for you to load into ANY sequencer, which provide a very accurate programmed representation of Armando Borg's natural playing). Not available separately from CD. (please specify ATARI, MAC, or IBM PC format).

ZERO-G DATAFILE CD-ROM



£199.00

The WORLD'S MOST FAMOUS Dance Library!

FAST creativity - the way it should be. Immediate access to the entire contents of the most highly-acclaimed dance sample library in the world. No other sample library has achieved so many stunning reviews in the world's hi-tech music press. "A REFERENCE AGAINST WHICH ALL SIMILAR SAMPLE-CDs MUST BE JUDGED... UNRESERVEDLY EXCELLENT... AMMUNITION FROM THE FRONT LINE... UNBELIEVABLY VALUABLE..." "AS A SOURCE OF SOUNDS AND INSPIRATION, ZERO-G REALLY WORKS"

The Zero-G Datafile Library is also available on a set of 3 audio CDs at £39.95 each or all three for £99.00

WE'LL GIVE YOU £33 EACH FOR THEM!! Send us your CDs with your order, and include payment for the difference.

WE DELIVER FAST!

FAST mail-order service - delivery usually next working day after receipt of payment by credit card (VISA / MASTER-CARD / AMEX), postal orders, bank draft, building soc. cheque, or cash (registered post - its quite safe!). TO ORDER: TEL. 0442 870681 or FAX 0442 877266.

However, if paying by personal cheque please allow up to 7 working days (!) for clearance through the bank. Make cheques/POs payable to "TIME+SPACE" and post to: TIME+SPACE • P.O. BOX 306 • BERKHAMSTED • HERTS. • HP4 3EP • ENGLAND

International orders: please add £5 airmail or £10 express airmail. EC countries: please give us your international VAT number if you have one.

Time+Space

THE LEADING EDGE OF SAMPLING TECHNOLOGY

HEX

the

guide to

multimedia



Matt Black of Hex offers advice for the aspiring video artist - and a glimpse into the brave new world of street-level computer graphics, video and live club visuals. Simon Trask turns on and tunes in...

Amigapunk

"To my mind, probably the best value computer for video and graphics at the moment is the Amiga 1200. You've got a pretty powerful graphics engine there, and a colour palette that's good enough for photo-realism. Also, unlike the Mac and the PC, the Amiga can animate at quite high speeds, even with a large number of colours, because it's been much better designed for video. A lot of the hottest demo crews have been using the Amiga 500, and now the Amiga 1200; to my mind, the Amiga is a good punk platform to get going on."

Setting up

"The simplest setup you could have would be a computer with a genlock plus a video source to genlock to. You plug both the computer and the video into the genlock and it overlays the computer signal onto the video signal, so you can do stuff like titling and wipes. The



Amiga's easy to genlock; a genlock unit will cost you about a hundred quid.

"If you get a video mixer as well, you can take the output of the genlock and combine it with a third source - another VCR, for example. The mixer output can go to your telly or to a VCR; obviously it helps to have a few VCRs! You can use some camcorders as video recorders by switching their video outputs to video inputs - that's something worth remembering. And if you've got a camcorder you can go round, film some clouds, film some water, some urban decay, some stuff down at the rave, and

you've got your own live material. Then you can come back, play that through the genlock and combine it with animations from the Amiga."

Video mixing

"One toy I'm quite fond of is the Panasonic AVE-5 video mixer, which is something a DJ/producer is going to be able to relate to. Once you've got a mixer and a couple of video sources, you can start laying down live video scratch mixes. Basically, the AVE-5 lets you mix two sources together, and it has a crossfader so that you can scratch between them.

"You can get an AVE-5 for about 600 quid new, or about 300 quid second-hand. We've also got a cheaper Panasonic mixer, the MX10, and there are various other ones. If you're going to buy something like that, make sure it's a proper video mixer, not one which just lets you cut from one source to the other, which is what some of the cheaper units you see advertised will do." ▶



Clockwork

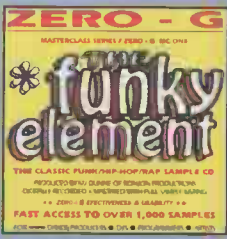
£39.95



"All of the necessary metallic stone cutting, sheet metal cutting and sharp iron hammers are here to let you construct rhythmic textures that would keep any club pumping until dawn... Leave it to this sampling CD to give you music a truly original taste... rich stereo imaging throughout... a serious must for any techno-industrial composer's timbral arsenal." (Keyboard, USA) "Undoubted source of inspiration for some future dance monster!" (Sound on Sound, UK). Mechanical atmos, metallic/percussive sounds, ticking clocks, industrial sequences, techno drums, rhythmic machine loops etc. Get some new-style rhythms in your track now.

Zero-G Masterclass Series FUNKY ELEMENT

£49.95



"Fat with feel, this disc is guaranteed to serve up that ol' funk sound. Bags of loops, a huge range of snares, really great & groovy sax riffs & squeals, and guitar chops to die for. Essential for all retro-funksters" (Melody Maker, UK). "Loops sound like extremely rare grooves... Best collection of its type I've come across... Mean sax notes, howls & squeals... guitar licks sound authentically 70s... no passengers here. A well-targeted, well-played, well programmed collection of funk elements." (Sound on Sound, UK). "For authentic funk feel you're spoilt for choice. Straight-from-the-flare-era feel... So fresh, so eminently usable, so FUNKY, 9 out of 10!" (Future Music, UK).

Zero-G Masterclass Series AMBIENT

£49.95



A particularly versatile collection. A fantastic array of dreamy atmospherics/effects for use in ambient dance, film work/ & all futuristic/space/new age/trance music. SOUND-ON-SOUND: "BOLD TO APPEAL... TEXTURES ABOUND! SOME WINDY, SOME WATERY, SOME JUST PLAIN WACKY... AN ARMY OF WHOOSHY, METALLIC, ANALOGUE, AND OTHER TEXTURES... HITS THE MARK SQUARELY!" FUTURE MUSIC MAGAZINE: "PERFECT FOR MAKING ORB-STYLE TRANCE RECORDS... CREATING THOSE EVER-EVOLVING TRANCE-DANCE SINGLES SHOULD BE A DODDLE!" ST FORMAT: "WELL RECORDED... LANGUAGE IS INADEQUATE TO DESCRIBE THESE SOUNDS... IF YOU ARE LOOKING FOR EFFECTS TO ADD TO YOUR SCI-FI MOVIE, OR NEW AGE ATMOSPHERICS, START HERE."

Voice Spectral

£39.95



OVER 1000 ORIGINAL VOCAL SAMPLES Great ethnic vocals, vocoded manipulations, dynamic shouts, female & male choirs and tones, vocoder pads, backing vocals, scat-singing, gospel inflections, vocal percussion, computer generated voices, 60s-sets, human grooves, slapsticks, voice transformation, vocal re-synthesis etc. Best vocal CD on the market! "In a nutshell, this CD generously captures the diversity of the human voice." (Keyboard, USA). "Will slot into a range of different recordings... very musical, very well-performed, very well-recorded." (Home+Studio Recording, UK)

BRAND NEW! ANALOG TO DIGITAL

£49.95



NEW from Voltage Controlled Music, and now available EXCLUSIVELY from Time+Space - an absolutely superb CD - believe us this is a winner! It's been compiled from the best of classic & contemporary instruments spanning the past 2 decades:

- Analog synths • Ring Modulators • Guitars using E-Bow
- Samplers • Vocoders & outboard FX • Mind blowing electronic loops & arpeggiations • Amazing pads & Textures • Unique treated analog drums • Unsurpassed trance & ambient tones & chords • Combined analog & digital layers • High standard of basses & leads • Unique 'RAW WAVES' data from Moog, SCI & Roland - easily create your own kicking sounds • List of old synths used is endless • An extremely well-documented & presented & INSPIRING product • Don't miss this classic analog CD!

Paul Hardcastle

£49.95



A varied selection from the personal sample library of the man who opened the eyes and ears of the world to the sheer power of sampling and topped the charts in thirteen countries with the devastatingly innovative "19".

PERCUSSION POWER!



Always wanted to know how the mambo is played? Fed up with sounding programmed, whatever you do? Here's the answer - lots of official Latin rhythms and fills for every use you can think of. Loops (with BPMs) and complete percussion kits are included. And for jingle producers, there are over 30 basic rhythm tracks, each approximately one minute long - SUPERB QUALITY.

£49.95

Zero-G Masterclass Series ETHNIC

£39.95



THE 'ETHNIC' LOOPS, BEATS & VOCALS SAMPLE CD PRODUCED BY THE PARADISE ORGANISATION. A real corker, stacked high with very dreamed-of kind of ethnic sounds - organic, earthy, tribal, trance dance stuff. If you're into techno or ethno or some new hybrid, here's gold - be something on this disc for you... unusually spirited & vital Melody Maker, UK. Essential for the clued-up dance samplers... vital & fresh samples... diverse, original & well-recorded... Go out and buy this. If you are subsequently disappointed, get out of the dance scene, you philistine! (Sound on Sound, UK). FEATURING: • AFRO-LATIN BREAKS • ORIENTAL LOOPS • AFRICAN BEATS • RARE ETHNIC PERCUSSION AND PERCUSSION LOOPS • TRIBAL CHANTS • UNUSUAL ORIENTAL VOCALS • ETHNIC FLUTES AND OTHER INSTRUMENTS • FULLY INDEXED • ETC. ETC. Some initial user reactions - "Very useful progressive House - just what I was looking for" (Judge Jules, Kiss FM, London). "Wicked breaks & ethnic loops" (Leftfield).

BESTSELLERS

Other Best-Selling Sample-CDs are listed here - for full details of content please call or write for our NEW

FREE Colour Catalogue

- Zero-G Datafile Collection. Kicks!! 3250 dance-oriented samples on 3 CDs. £99/the set.
- X-Static Goldmine. 3023 dance samples - serious techno/rave etc. Now only £49.95 !!
- Sound FX Collection. 2 CDs/2 hours High-definition stereo sound FX from Germany £49.95
- Film Collection. New! 2 CDs/2 hours stereo FX /atmos for film/radio/TV from Germany £49.95
- Bizarre Planet. Stereo alien FX & atmos. £35
- Science Fiction. More alien FX & atmos. £35
- Denny Jaeger String Library. Simply the world's very best orchestral string library - on CD-ROM in Akai, Samplecell, and Roland formats, £299.00
- Looping. Around 250 stereo/mono high-quality rhythm loops plus percussion. £29.95
- Loop Classics. 75 great stereo breaks, each 30 seconds long, containing fills, etc. £25
- Bob Clearmountain Drums. The world's bestselling sampled drums CD from US. £49.95
- Bob Clearm. Percussion & Bass. Super-hi-fi exotic percussion & electric bass. £49.95
- Steve Levine. Double-CD of instruments & percussion - a bit of everything. £49.95
- Star Trek Sound Effects. All the fab effects & atmospheres from original TV series. £19.95
- Ethnic Percussion CD. Huge collection of really unusual ethnic percussion. £39.95
- Sabian Cymbals (Double CD). Complete range, beautifully sampled. Now only £79.00
- Sampling 2000. From Italy! Wide range of up-to-date synth samples. £39.95

BEST CD-ROM SELECTION

We have the Biggest selection of CD-ROMs in the World ! All CD-ROM prices SLASHED !! call for details !! New CD-ROM demo facility now open - pay us a visit !!

LISTEN BEFORE YOU BUY

A constant stream of careful purchasers visit our hi-tech offices, listen to loads of CDs or CD-ROMs, drinks gallons of our coffee, and purchase ONLY those CDs that they then KNOW suit their needs 100 per cent. You are always welcome to call and make an appointment to listen - we will do our very best to help you find the sounds that you need. We are very close to Berkhamsted Station, only 30 minutes from Euston! (or by car, 6 miles from M1 junction 8).

SAME-DAY DESPATCH

FAST mail-order service - delivery usually next working day after receipt of payment by credit card (VISA / MASTERCARD / AMEX), postal orders, bank draft, building soc. cheque, or cash (registered post - its quite safe!). TO ORDER

TEL. 0442 870681 or FAX 0442 877266.

However, if paying by personal cheque please allow up to 7 working days (!) for clearance through the bank. Make cheques/POs payable to "TIME+SPACE" and post to: TIME+SPACE • P.O. BOX 306 • BERKHAMSTED • HERTS. • HP4 3EP • ENGLAND

International orders: please add £5 airmail or £10 express airmail. EC countries: please give us your international VAT number if you have one.

NEW from German developers Propeller Island



£89.95

The Legendary Mellotron

That great mystical monster of the late sixties is back! All 35 tapes of the original instrument sampled uncompromisingly. No noise reduction, no gates used. Perfectly presented for musical purists. Re-capture that special sixties sound. Stacks of sophisticated stereo patches on CD-ROM version let you hear it like never before! On audio CD and on 480 Mb CD-ROM in Akai and SampleCell formats (release date mid to late Oct'93)



SCALL

The Complete GANGLAN

Yes! Propeller Island have captured this remarkable instrument as well - coming soon!

GET ON OUR MAILING LIST!



► Making PALs with NTSC

"Our Mitsubishi video machine can play both PAL and NTSC tapes. An NTSC-compatible video player is essential for the up-and-coming VJ, because there's a lot of computer graphics tapes you can get from the States which just aren't available over here on PAL. You need to be able to play those tapes if you want to be upfront in your selection - just like a DJ playing the hot import records. You can pay an extra hundred quid for a machine with an NTSC facility, but to my mind it's well worth it."

(Fans of Japanese anime take note: an NTSC-capable video machine will let you play the many American-released anime tapes not available in PAL format - ST)

The dub connection

"A video machine which has an audio dub facility is very useful. We used to record stuff off the TV and then dub a different soundtrack onto it. The best one we ever did was the chase scene at the end of *French Connection II*; we dubbed this music from a Defunkt album all over it! You watch it and it's quite cathartic, because the music catches you up in it so much.

"Of course, you can also mix yourself down a video from your different sources, then record a soundtrack on top of it; you won't be able to synchronise the music and visuals perfectly, but at least you can put together a finished product."

Live visuals

"Rob and I have done one-offs at the Hammersmith Palais, the Camden Palace and the Limelight, and I've taken a live setup along to clubs like Knowledge and Telepathic Fish before now. Sometimes I might only take a video player and a selection of our mix tapes, but other times I'll also take the Fairlight CVI, the Chromascope, a CD-i unit, a couple of video switcher boxes and the Panasonic AVE-5 video mixer.

"Like most video mixers, the AVE-5



Image manipulation on the Apple Macintosh



Video mixing with the Panasonic AVE-5



Hex video stack (top to bottom): Mitsubishi video, CEL Chromascope, Fairlight CVI, Panasonic AVE-5

can only mix two inputs, so when I have more than two sources I use a composite video switcher box to control which source is routed into one of the mixer channels. I also have a small Casio portable TV rigged up to the RF outputs of all the different sources via an RF switcher box, which you can get from Tandy for about 10 quid, and I use that as a cue monitor so that I can check, for instance, where the videotape is without having to bring it up in the main mix. It's analogous to headphone monitoring for cueing up records.

"When you're doing live visuals you can get by with a couple of large tellies stacked on top of one another, but really

The Hex audio collection

Apple Powerbook 145 computer running Opcode Vision sequencing software
Casio RZ1 sampling drum machine
Cheetah MS6 analogue synth module
Roland JV880 synth module
Roland MT32 synth expander
Roland TR727 drum machine
Yamaha PSS780 keyboard

Goldcut's Music Studio

Allen & Heath Sabre 24:8:2 mixing desk
Akai S1000 sampler (8Mb RAM, SyQuest 44Mb removable hard disk)
Atari 1040ST computer running C-Lab Creator sequencing software
Casio portable DAT machine
Korg MS10 monosynth
Numark PPD club mixer
Oberheim Matrix 1000 synth module
Quad amp
Sony DAT1000 DAT machine
Soundbase custom monitors
Technics SL1200 deck (x2)
Roland JD800 synth
Roland JX3P synth
Roland MC202 monosynth
Roland MKS50 synth module
Roland MPU101 MIDI-to-CV converter
Roland R8 drum machine
Roland TR808 drum machine
Roland TR909 drum machine
Waldorf Microwave synth module
Yamaha SPX90 multi-effects processor and "loads of wahs, fuzz, phasers etc."

you need a projector. We have the cheapest one you can get, which is an Epson LCD projector we got for 800 quid second-hand - most projectors are about three grand. The quality's average, but you get this huge picture, 12 foot high by 14 foot wide. The nice thing about it is it's very compact, and it takes no time at all to set up; I've taped it to the ceiling with masking tape at clubs before now.

"The only problem is it's not really meant to be used for hours on end, and the lamp can burn out; then you have to wait for it to cool down before you can replace it." ●

APPLE MACINTOSH

HARDWARE

Mac II 68020/16 (8Mb RAM, 100Mb hard disk, NuVista Classic board)
Mac IIci 68030/25 (20Mb RAM, 200+800Mb hard disks, Yarc board)
Microtek 24-bit scanner
AudioMedia II sampling card
TrueVision VidI/O box
44Mb Syquest removable hard disks

SOFTWARE

Adobe Photoshop
MacroMedia Director+Accelerator
Macromedia Lifeforms

The Hex video collection

Macromedia Swivel3D
Pixar MacRenderMan

COMMODORE AMIGA

HARDWARE

Amiga 2000 030/16Mhz (5Mb RAM, 100Mb hard disk)
Amiga 4000 040/25Mhz (6Mb RAM, 100Mb hard disk)
Amiga 1500 040/28Mhz (37Mb RAM, 105Mb hard disk)
CDTV 68000 (1Mb RAM)
Rendale 8802 genlock
VidiAmiga frame-grabber

MacroSystem VLab
colour frame-grabber
Personal single frame controller

SOFTWARE

Real3D
SculptAnimate4D
VistaPro
Imagine2
TurboSilver
Morph Plus
ArtDeptPro
DeluxePaint4
Global Chaos (CDTV)
Top Banana

ACORN ARCHIMEDES

HARDWARE

Archimedes 400 ARM3 (2Mb RAM, SyQuest hard disk)

SOFTWARE

custom-developed

OTHER MACHINES

CEL Electronics Chromascope
Epson VP-100PS LCD video projector
Fairlight Computer Video Instrument
Ferguson Videostar VHS VCR
Mitsubishi HS-B52 PAL/NTSC VHS VCR
Panasonic Digital WJ-MX10 production mixer
Panasonic WJ-AVES Digital AV mixer

Touching Bass

Part 9 of our series enters rapid-fire mode with a selection of fast 'n' furious 16th-note fusion basslines – shooting straight from the hip... Text and examples by Simon Trask.

First things first: apologies for any confusion, frustration or trauma inadvertently caused by the omission last month of Examples 2(c), (d) and (e) – you'll find them reproduced below. The culprit, rest assured, has not gone unpunished!

This month's examples grew out of Example 1 from Part 8. You may recall me mentioning that you could get a fusion groove by bumping up the tempo from the indicated 86bpm. Well, this month I've set a tempo of 120bpm, extended last month's drum part over four bars, provided a suitably angular, off-the-wall chordal accompaniment part, and pursued the fast 16th-note style characteristic of fusion bass playing. And I do mean *playing*.

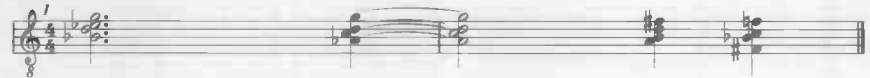
I've tried to approach this month's examples more from the perspective of a bass guitarist than a keyboard player, keeping in mind the sort of figurations which fall naturally under a bass player's fingers. Fast repeated notes, for instance, are easier to play on a bass guitar

than on a keyboard. Ascending and descending fifth and octave sequences (as, for instance, in Example 2) are also well suited to bass guitar playing – the intervals fall naturally under the fingers of the left hand, and the sequences only require that the left hand shift up or down the fretboard a fret at a time.

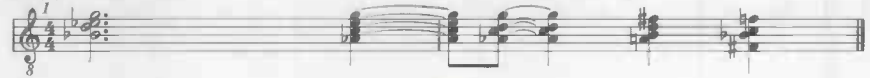
The flourish of notes in bar 4 of Example 6(a) introduces another element in the well-equipped bass guitarist's armoury of techniques, namely the run – a gesture of performance bravado which might seem alien to the world of programmed rather than played basslines. Finally, this month's examples adhere to the strictures of bass guitar playing in the simplest way possible: they don't go lower than the lowest note in standard bass tuning ie. the E below the (octave lower) bass clef.

As I mentioned earlier, these examples are all based on 16th-note playing. Stylistically they use syncopations and/or streams of 16th notes, with the emphasis being ▶

Ex2(c)



Ex2(d)



Ex2(e)



Ex1

Musical notation for Example 1 in 4/4 time, featuring a treble clef and a key signature of two sharps. It includes a bass line with 16th-note patterns and a drum part indicated by 'x' marks on a bass staff.

► on creating a strong sense of forward motion. You might also notice a certain lack of restraint – this is not a style known for its economy! The same combination of ‘busyness’ and syncopation is evident in the drums, where busy closed hi-hat and kick drum parts are mixed with snare and open hi-hat syncopations. The chordal part, too, makes much use of syncopation to achieve its rhythmic ‘angularity’, while harmonically speaking its chordal stabs are intended more as colouring than as a literal statement of a harmony or harmonic progression – like a painter flinging paint onto a canvas to achieve an abstract effect rather than a figurative depiction.

All the basslines outline a G tonality, though some push the harmonic boundaries more than others. In Examples 2 and 4 it’s unclear whether the tonality is major (B natural and F#) or minor (Bb and F natural); this uncertainty is aided by the use of chromatic fifths in each example (bar 4 of Example 2, beats 3 and 4 of each bar in Example 4). ‘Chromatic’ means ‘outside the key’ – or, more

literally, a ‘colouring’ of the key through the use of notes which are not part of it. As you can see, the chromatic sequences progress in semitone steps rather than in the order of intervals defined by any particular key.

The bassline in **Example 1** makes forceful use of falling 16th-note syncopations in the first half of each bar; beat 3 then tumbles downwards, while beat 4 clammers back up to the root note. Bar 2 introduces a slight variation, in the form of 16th-note fifths on beat 4. This is the sort of subtle change which a bass player might throw in naturally; it doesn’t disturb the shape or feel of the riff, yet it helps to make the unfolding bassline flow onward.

Like the preceding bars, bar 4 uses syncopation. However, its rising note sequence ‘answers’ the falling sequences of those bars; consequently, it turns the bassline into a 4-bar phrase rather than a repeating 1-bar riff. **Example 2**, **Example 5** and **Example 6(a)** follow the same pattern of smaller difference in bar 2 and bigger difference in bar 4.

In **Example 3**, meanwhile, beat 4 of bar 4 answers the same beat in bar 2. Example 3 can be seen as an almost unbroken stream of 16th notes. However, it can also be thought of as two interlocking rhythmic lines, one consisting of the low G and the other of the high F and G; try playing each line separately and you’ll see what I mean.

In **Example 6(b)**, which builds on the ideas in 6(a), bar 2 with its falling syncopated line answers bar 1, while the syncopated run in bar 4 caps the 4-bar phrase. Of this month’s examples, this one and Example 5 have the most variation in them, yet they also have enough similarity and consistency to hang together as unified phrases. If you’re trying to develop basslines which are more than just a simple repeated riff, it can be useful to think in these terms. Try to isolate the characteristic elements stated at the outset – the pitch sequence, the rhythm, and any pitch or rhythmic motifs – and then play around with them. Of course, ideally you want to be able to come up with effective basslines intuitively, but a conscious exploration of the underlying elements will help you to develop that intuition. ●

Ex2

Ex3

Ex4

Ex5

Ex6(a)

Ex6(b)

General MIDI/GS Format compatibility

This month's musical examples were created using sounds from a Roland JV30 synth, which is a GS Format instrument. Consequently, if you own a GS instrument you can recreate them using the same sounds. Specifically, these are: patch 86 (Solo Vox) for the chordal stabs, patch 34 (Fingered Bass) for the bassline, and the Standard Kit for the drum part. Reading from top to bottom of the drums stave, the rhythm sounds you should use are: open hi-hat, closed hi-hat, snare drum 2 and kick drum 2.

If possible, you should alter the filter-cutoff setting of the Fingered Bass sound to -39; this gives the sound a taut, hard quality well suited to the fast, clean articulation needed for this month's examples. In bass guitar terms, this sort of sound would be got by playing towards the bridge of the instrument.

Owners of General MIDI instruments can use the patch numbers and drum sounds indicated above, though of course these won't provide literally the same sounds.

Imagine a hard disk recorder that's as easy to use as a tape machine! The new Akai DR4 brings high quality digital multi-track to an affordable level, in a package that's powerful, compact and convenient. The stylish 3U case houses all the features you'll need to make truly professional recordings.

The DR4 is a four track tapeless recorder that allows you the choice of size of hard disk as the recording medium. Its simple, user friendly operation has the feel of an analogue recorder and the large jog/shuttle wheel makes editing fast and easy. The 20-segment meters clearly indicate levels and there is a large time display for accurate positioning of the recording.

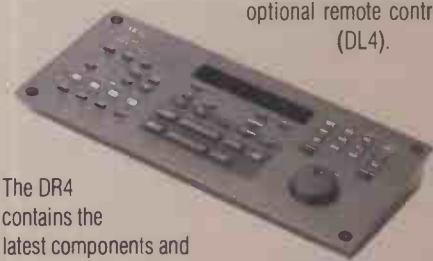
The greatest difference between conventional tape recording and recording on a tapeless system is the way you can access any part of the track you want to listen to, or work on. On a tape system, the only way to get to that vital spot is to wade all the way through



the tape until you find it. By contrast, the Akai DR4 will instantly jump to any point in the recording to pick up the phrase you want.

The DR4 offers all the advantages of tapeless digital recording, COPY sections of a track to wherever you like. MOVE a section to a desired place. INSERT material into the middle of a track, ERASE, or DELETE.- all with pinpoint accuracy and your recordings can remain in the digital domain, so there's no degradation in sound quality.

It's expansion possibilities allow you to increase the number of tracks by linking up to four units. These will run in perfect synchronisation and can be operated from the master unit, or optional remote control (DL4).



The DR4 contains the latest components and Akai's own advanced digital technology: a high density 18-bit, 64 times oversampling A/D converter, and an advanced single-bit 18-bit dual D/A converter to ensure high-quality digital audio. It comes complete with a two channel digital input (AES/EBU types I & II) which is optionally expandable to four channels, plus a SCSI connector for external drives. Other options available: MIDI board for external sync with a MIDI sequencer and SMPTE board for time codes without the need for an extra sync box.

All this in one convenient package that you can pick up and walk away with! Hard to resist isn't it?

Want to find out more? Contact us today for a brochure and the name of your nearest dealer.

Akai (U.K.) Ltd., E.M.I. Division, Haslemere Heathrow Estate, Parkway, Hounslow., Middlesex TW4 6NQ.
Tel: 081-897 6388 Fax: 081-759 8268

EASY TO USE, HARD TO RESIST.



On sound

"I think what I became conscious of quite early was the idea that sound, in itself, as material had become a major subject of musical composition. If you look at the way classical music is written and thinks about itself, and the way musicologists describe it, they will always talk in terms of structures, melodies, rhythms and harmonies. Timbre is a very small part of the total message, because the timbral possibilities of classical music are quite limited. A clarinet means a quite small palette of sonic possibilities. Therefore, it was possible in a score to say 'clarinet' and for you to know, pretty much, what that would sound like.

"I think what happened in pop music, because of electronics and recording and other cultural factors as well, was that suddenly it became possible to work with all sorts of sounds, to put together things that could never have been put together before. For instance, just the microphone enabling a singer to sing very quietly against a full orchestra. This, in itself, was an incredible revolution in eroticism. Frank Sinatra singing in an off-hand, almost introspective way against a big band, was a fabulous breakthrough which could never have happened in any classical music because it's physically impossible. He would be drowned.

"As I started collecting records I started noticing there were distinct trends in my collection. The biggest trend of all was certainly towards this fascination for things that just had their own sound picture. Like some of the late '50s, early

'60s records that I had, like 'The Mountain's High' by Dick and DeeDee. The moment you put

it on, it sounds like nothing else that you've ever heard. Within the first second of that song, you're in the place. It's sonically so distinctive. Then, 'Be My Baby' by The Ronettes, where you had this enormous, huge sonic picture with the thinnest voice you've ever heard. The voice is like a little bee inside there. I got more and more interested in that kind of thing – and then psychedelic music was an explosion of that kind of material."

On formats

"It occurred to me, there are so many different formats for releasing things. You can make a CD that's album length. You can make it double album length and still call it a CD which doesn't have the stigma of the double album. It's just a lot of music. Or, you can do CD5s which are 20 minutes. I've done one in America which is 70 minutes long. It's basically one song, in lots of forms. You can do singles, you can do club 12-inches, public 12-inches. There's suddenly this whole proliferation of formats and the effect on me was, Wow! I don't have to think I'm writing a novel every time I do a record.

"That really got frightening after a while. If you've got some kind of reputation, there's so much attention on anything you do, especially if you haven't brought anything out for a while. Of course, when it was vinyl,

you assumed that people were going to listen all the way through. People really don't get up and take the needle off and skip tracks. Or if they do, it's a very annoying process that they resent. Making a vinyl album is a completely different idea and mind-set. You tend to think, I've got to make a coherent listening experience. If something's going to be annoying, or possibly won't have the longevity of the other pieces, I won't leave it on, because it's going to turn out to ruin the record after a while. It made record making less and less fun for me, because it meant that one tended to censor, more and more, the things that were nuttier and less well-formed in favour of the things that were more acceptable.

"With these new formats now, and especially with the CD player itself, and the knowledge that people can put something on and say, 'I don't like that,' and they're onto the next track – this is fantastic. What you offer to people instead of an album is a whole bunch of music, which they then curate. They find their own set of favourites."

On remix culture

"I suddenly discovered myself to be a kind of postmodernist, in the sense that I was noticing myself becoming more and more interested by the whole remixing scene and the idea of proliferating variety from one set of sources. Again, not going for the definite, single version of something – the 'perfect' mix. That just drove me nuts over the last few years, especially with computer mixing, which gives you the illusion you can get to that.

"The whole thing about computer mixing is actually gloss. But the thing about remixing is exactly the opposite. It uses computer technology but in a different way. It says, hey, what you can do with all these computers is be spontaneous. You can do wild things. If they're completely weird, you can correct them. If you've forgotten to include the four most important instruments, you still have the chance of fixing it. What happened, I think, in the last few years, people started using the technology (as always does happen in pop music), not for what it was intended, which was to do an old thing better, but for what wasn't intended. This was to do something new. It offered you a new way of working."

On ambient

"What's now happening over the top of the techno lock, is getting more and more fluid and cloudy. Also, it's getting mixed louder. The balance in the mix is changing, so that your attention is being drawn more and more towards the floating aspects of the sound, rather than the stepping, pulsing aspects of it. I suppose this is what they call ambient house.

"I obviously have an interest in what gets called ambient and I am very conscious of the processes of recording studios. It's all transparent to me. I can hear how it's all done. I've never heard much of the Aphex Twin type of ambient music. Whenever I do hear things, I don't particularly recognise it as being what I would call ambient. It might be that my definition is too narrow. In my experience, whenever I don't like anything,

discretion

Back in the days before acid house, Brian Eno was the last musician anybody would associate with dance music. Now, the influence of his innovations in ambient music and video can be found in acts as diverse as U2, Slowdive, The Grid, The Orb and Moby. With two retrospective CD boxed sets due for release – one compiling his songs, the other collecting his ambient works and collaborations – Brian Eno speaks about the problems and potentials of music technology. Interview by David Toop.

there's a very good chance that six months later I'll go, 'Oh yes, I see' and change my mind about it.

"I certainly don't have any proprietary rights over the term 'ambient'. What I would like it to describe is interesting music, at least. I don't want it to be a description that suddenly just attaches itself to something I knew, and had heard before, and tries to glorify something that I thought was commonplace noodling. The definition I still stick to myself is the one on the inside cover of *Music For Airports*, which unfortunately never got reprinted when Virgin repressed that record. It was headlined 'Ambient Music'. That was the first time that the phrase had ever been used, as far as I know. Then I tried to give a description of what I saw as a new musical area and a new way of listening to music." [see below]

On computers

"I don't use any programs. Do you know why it is? More than anything else, it's a physical reason. I've got SoundTools in my computer there, which I use as an editing system, but I get so fed up after working on it for a few hours. The only part of my body that's engaged is my mouse finger and my eyes. My body just starts to feel so . . . ooh, I just want to hit something or bounce around on the floor. It might sound like a hippyish thing to say, but I keep thinking to myself, this is not the physical condition that I want to be in when I'm working. If my body is feeling this frustrated and under-used, there's something wrong.

"Even at a mixing console, I feel much more engaged. There's reaching, and you can stand up and do it. There's an aspect of performance to it. But the complete lack of any feeling of performance with any form of computers is very frustrating. I think that's one of the things that shows in the music. You don't get bold, strange strokes. You don't get whatever the computer equivalent is of somebody going 'CHAANG!'.

"My experience of computer mixing, which I've had more experience of than other forms of computer work, is that it creates a cautious, perfectionistic way of working. I've banned computers in the studio, actually. I won't have them around. It isn't because

I'm anti-computer. It's because nobody understands them well enough. Either the programs aren't well enough designed or they're just so difficult that nobody is yet intuitive with them. It's happened to me so often that I'd be in the studio and there's a computer there running some sequencer aspects. You look round and the brow is knotted. Someone's saying, 'I think if we just put the SMPTE in there. Wait a minute, I've got to ID channel four...' and you know the session is blown. Because now the guitar player's gone off to make a phone call, the drummer's gone to the lavatory, the singer's started reading some magazine article. The whole attention of the thing has gone. For me, the most important thing in the studio is to retain attention - to keep everyone there. That's what I do. That's my main job as a producer. To try to keep everybody there for as long as I can. If they're not there then get out of the room. I don't mind, but I don't want stray attention everywhere.

"Computers have so often punctured the balloon that I just won't have them in unless I'm convinced that the person using it is totally intuitive and has as little problem using it as the guitar player does with his guitar. I just can't stand that other mode you flip into: 'Maybe if we can just shift that 1/92nd of a beat..' It's hopeless. You can sit at home and do that on your own. Come in with the results. Wonderful. But to spend everybody else's time doing that is just selfish."

On authorship

"If you went through, say, Moby's remixes of 'Fractal Zoom', you'd have to say, that's nearly all Moby on those things. I wrote a review two years ago for *Art Forum* of a book about Hypertext (*Writing Space: The Computer, Hypertext, and the History of Writing* by Jay David Bolter, published Lawrence Erlbaum Associates). I think that's such a new idea really. I now have my Hypertext disk here and I've added to it, so I've started to actually do a Moby on this book. It's still mostly the original author, but there's a percentage of the book that I have now, which is my own contribution.

"Now if I copied that and gave it to you, you would

read it, you'd probably add some other things in. This idea of a book or piece of music, instead of being the vision of just one person which is put out into the world and then sits there for the rest of time, instead of being that it becomes a hub around which a community of activity takes place. The originator might even disappear entirely from that. I think that's a terribly exciting and modern idea.

"What has been happening in music for quite a long time is an unformalised, unarticulated version of what is now going to happen in writing. In terms of music, we've been living in a world of fluid, vague barriers; of the possibility of things crossing with one another; of the possibility of things losing their authorship and not having fixed centres. Narrative development was the bit that went first, where music started to become more and more a space for exploration, rather than a story being told.

"Writing was actually a very fossilised form. The people who tried to break that form - Borges, Beckett, Burroughs, Joyce - in a way, experienced several brilliant failures in their attempt to get around this problem of the linearity of writing. Painting, as well, aspired to music, because music was the condition that they would like to have moved their art towards. Now, perhaps, because of Hypertext we can imagine a writing which gets in sync with the way music is now. But of course, what's going to happen in the meantime is that music is going to go somewhere else. I don't know where. Where next for music?"

"Warners in America have an advanced research department where they're always looking into what sort of futures there might be. I sent them my review about the Hypertext book and said this is going to be the future for CDs. So instead of presenting a line of music, you present a space and somehow, there are ways of navigating through that. It's very hard to imagine how it would be done but it's a fabulous idea."

On fakes

"I think this is a tragic story, in a way. When I worked with Bowie on the three records we did together (*Low*, *Heroes*, *Lodger*) we had Fripp in, playing solos.

Sleeve notes from Music For Airports

“ Ambient Music

The concept of music designed specifically as a background feature in the environment was pioneered by Muzak Inc. in the '50s, and has since come to be known generically by the term muzak. The connotations that this term carries are those particularly associated with the kind of material that Muzak Inc. produces - familiar tunes arranged and orchestrated in a lightweight and derivative manner. Understandably, this has led most discerning listeners (and most composers) to dismiss entirely

the concept of environmental music as an idea worthy of attention.

Over the past three years, I have become interested in the use of music as ambience, and have come to believe that it is possible to produce material that can be used thus without being in any way compromised. To create a distinction between my own experiments in this area and the product of the various purveyors of canned music, I have begun using the term Ambient Music.

An ambience is defined as an atmosphere, or a surrounding influence: a tint. My intention is to

produce original pieces ostensibly (but not exclusively) for particular times and situations with a view to building up a small but versatile catalogue of environmental music suited to a wide variety of moods and atmospheres.

Whereas the extant canned music companies proceed from the basis of regularising environments by blanketing their acoustic and atmospheric idiosyncrasies, Ambient Music is intended to enhance these. Whereas conventional background music is produced by stripping away all sense of doubt and uncertainty (and thus all

genuine interest) from the music, Ambient Music retains these qualities. And whereas their intention is to 'brighten' the environment by adding stimulus to it (thus supposedly alleviating the tedium of routine tasks and levelling out the natural ups and downs of the body rhythms), Ambient Music is intended to induce calm and a space to think.

Ambient Music must be able to accommodate many levels of listening attention without enforcing one in particular: it must be as ignorable as it is interesting.

”
Brian Eno, September 1978

On one song, I concocted a solo from him. He had three solos on three tracks and I was switching in between them, so you got these impossible jumps of three octaves or something, all over the guitar. A couple of years later, it came time for David to go on tour, and he had Adrian Belew playing guitar – a phenomenal guitar player. Poor Adrian, he learned to play them. It was astonishing that he could actually do it, but when he told me, I thought, ‘You poor guy, why didn’t I tell you before?’”

On uncertainty

“It’s a great time, I think. I don’t think music has been so unsure of itself, or so fluid in its identity for 25 years really. This is a bit like how it felt, as I recall, in the late ‘60s, when there were all sorts of things going on and they all sounded very different from one another. Just remember Country Joe & The Fish and The Velvet Underground – they were both around at the same time. Janis Joplin, Jimi Hendrix – these things didn’t represent, to me, variations of the same kind of music. They represented different musics that in some areas overlapped. It was later on that convergences were forged out of them. That always does happen, I suppose, as you find the most marketable elements, the consensus of marketable elements. Now, those things have separated out again.”

On jazz and techno

“Something that has been interesting me a lot at the moment, is the strange way in which jazz has been co-opted into a lot of music now. It’s the aspect of jazz which I like best. The aspect of jazz which I enjoy is where it’s courting the edges of breakdown. Where the structure is teetering on the edge of falling apart and then, suddenly, it triumphantly comes together again. It seems to me that jazz is the best metaphor for the whole of the music and the culture scene at the moment.

“Techno music is very locked. I don’t like it. The whole history of the sequencer is really a way of locking everything together, and you screwed it tighter and tighter. That was exciting for a little while, because it had this futuristic, robotic quality, but it very quickly got very tiring to me. I started finding that what I liked more and more about jazz and what’s called world music, is that it’s not very tightly locked. There’s always a lot of shift. There might well be a beat. No problem about that, but there are also several interpretations of it at the same time, so you get a kind of furriness to the identity of the thing. Jazz ties in well with various aspects of new thinking – chaos theory and so on.”

On sound processing
 “Until music-organising technologies and text-organising technologies become much simpler, I don’t expect very good results from either of them. What I expect is that they both confirm an older way of thinking. In theory, they open up new ways, but they require that you practice an older way of thinking. That older way of thinking is very manual based.

“To give you an example of something that isn’t like that – I don’t know if you know this machine – the Eventide H-3000, it’s called. It’s a processing tool, basically, but it’s a very, very versatile one. But it’s not Japanese, so it’s built for Americans with short attention spans who want results quick. It’s a fabulous machine. It’s so well designed. You switch it on. You select a program, which is very easy to do. You can just turn a wheel and you can go through them all. The program offers you, on the few controls that are there, the parameters that you’re most likely to want to change.

“Then it offers you another level of parameters you’re less likely to want to change but can if you want. Then it offers

you yet a third level of the architecture of the whole system. You can interfere with that, as well. The important thing about it is that you can use this machine intuitively from five minutes after you’ve unpacked it. You’re enjoying it, having fun with it. It so quickly becomes part of what you’re doing. It never wastes time in the studio. In fact, it always creates so much excitement in the studio. I have one, and I carry it around with me now whenever I work with people. I think that machine is a real model of how design could be in the future: hierarchically organising the levels at which you can intervene.

“What’s happening in music, though, is that there’s always the struggle between increasing options and making something usable, and they really are almost opposed in effect. For people who design things, it’s very easy to add new options. It’s very difficult to think of better ways to access them. That’s where all the failure of design has been – in the actual interface. These machines have to correspond with someone like me, who didn’t grow up playing video games.” ●

On record

Albums

Roxy Music EG, 1972 (with Roxy Music)
Here Come The Warm Jets EG, 1973
For Your Pleasure EG, 1973 (with Roxy Music)
No Pussyfooting EG, 1973 (with Robert Fripp)
Taking Tiger Mountain (By Strategy) EG, 1974
June 1st 1974 Island, 1974 (with Kevin Ayers, John Cale and Nico)
Another Green World EG, 1975
Discreet Music Obscure, 1975
Evening Star Editions EG, 1975 (with Robert Fripp)
Music For Films (limited edition of 500) EG, 1976
801 Live EG, 1976 (with 801)
Before & After Science EG, 1977
Cluster & Eno Sky, 1977 (with Cluster)
Music For Films Editions EG, 1978
Ambient 1: Music For Airports Editions EG, 1978
After The Heat Sky, 1978 (with Moebius and Hans-Joachim Rodelius)
Fourth World Vol. 1: Possible Musics Editions EG, 1980 (with Jon Hassell)
My Life In The Bush Of Ghosts EG, 1981 (with David Byrne)
Ambient 4: On Land Editions EG, 1982
Apollo – Atmospheres And Soundtracks EG, 1983 (with Daniel Lanois and Roger Eno)
Working Backwards 1983-73 (10-album boxed set) EG, 1983
Music For Films Vol. 2 (available in boxed set only) Editions EG, 1983
The Pearl Editions EG, 1984 (with Harold Budd and Daniel Lanois)
Thursday Afternoon EG, 1985
More Blank Than Frank (compilation) EG, 1986
Desert Island Selection (compilation) EG, 1986
Music For Films III Land, 1988 (with Daniel Lanois, Harold Budd, Michael Brook, Percy Jones,

Laraaji, Mahlin and Theremin)
Wrong Way Up Land, 1990 (with John Cale)
Nerve Net Opal, 1992
The Shutov Assembly Opal, 1992
Neroli (Thinking Music Part IV) All Saints, 1993
Brian Eno I (CD boxed set) Virgin, autumn 1993
Brian Eno II (CD boxed set) Virgin, autumn 1993

Singles

‘Virginia Plain’ EG, 1972 (with Roxy Music)
 ‘Do The Strand’ EG, 1973 (with Roxy Music)
 ‘Seven Deadly Finns’ EG, 1974
 ‘The Lion Sleeps Tonight (Wimoweh)’ EG, 1975
 ‘King’s Lead Hat’ EG, 1977 (with Snatch)
 ‘The Jezebel Spirit’ EG, 1981 (with David Byrne)
Rarities (EP available with boxed set only) Editions EG, 1983
 ‘Glint (East Of Woodbridge)’ (flexi-disc for *Art Forum* summer issue) 1986
 ‘Fractal Zoom’ Opal, 1992
 ‘Ali Click’ Opal, 1992

Notable production jobs

Portsmouth Sinfonia Plays The Popular Classics Portsmouth Sinfonia, Transatlantic, 1973
Hallelujah Portsmouth Sinfonia, Transatlantic, 1974
Fear John Cale, Island, 1974
The Sinking Of The Titanic Gavin Bryars, Obscure, 1975
Ensemble Pieces Christopher Hobbs, John Adams & Gavin Bryars, Obscure, 1975
New & Rediscovered Musical Instruments David Toop & Max Eastley, Obscure, 1975
Lucky Lief & The Longships Robert Calvert, UA, 1975
Voices & Instruments Jan Steele & John Cage, Obscure, 1976
Decay Music Michael Nyman, Obscure, 1976

Music From The Penguin Café Penguin Café Orchestra, Obscure, 1976
Ultravox Ultravox, Island, 1977
Low David Bowie, RCA, 1977
Heroes David Bowie, RCA, 1977
More Songs About Buildings And Food Talking Heads, Sire, 1978
Q: Are We Not Men? A: We Are Devo Devo, Virgin, 1978
No New York Contortions, Teenage Jesus & The Jerks, Mars and DNA, Antilles, 1978
Machine Music John White & Gavin Bryars, Obscure, 1978
Irma – An Opera Tom Phillips, Gavin Bryars & Fred Orton, Obscure, 1978
The Pavilion Of Dreams Harold Budd, Obscure, 1978
Fear Of Music Talking Heads, Sire, 1979
Lodger David Bowie, RCA, 1979
Remain In Light Talking Heads, Sire, 1980
Ambient 3: Day Of Radiance Laraaji, Editions EG, 1980
The Pace Sellers Edikanfo, Editions EG, 1981
Fourth World Vol. 2: Dream Theory In Malaya Jon Hassell, Editions EG, 1981
The Unforgettable Fire U2, Island, 1984
Hybrid Michael Brook, Editions EG, 1985
Voices Roger Eno, Editions EG, 1985
Africana Theresa de Sio, Polydor, 1985
The Falling (two tracks) Carmel, London, 1986
Power Spot Jon Hassell, ECM, 1986
The Joshua Tree U2, Island, 1987
Zvuki Mu Zvuki Mu, Land, 1989
Words For The Dying John Cale, Land, 1989
Exile Geoffrey Oryema, Real World, 1990
Achtung Baby U2, Island, 1991
Zooropa U2, Island, 1993
Laid, James, Fontana, 1993

CD-ROM EXPLAINED

WHAT IS CD-ROM?

CD-ROM is a storage technology for large amounts of information, which can be accessed from a PC via a CD-ROM drive. CD-ROM technology uses Compact Discs (CDs) as its information storage medium. These disks can store high resolution colour images, millions of words, full audio sound tracks and much, much more.

THE CD-ROM ADVANTAGE

There are numerous advantages in having a CD-ROM drive. CDs can hold the equivalent of up to 600 floppy disks and software developers can design more sophisticated and complex programs to take advantage of this large storage capacity. Cheap production costs, compact design and the practically indestructible nature of CDs also makes them ideal for software storage.

KODAK PhotoCD COMPATIBLE

Kodak have recently introduced a new technology called Kodak PhotoCD. This allows normal photographs from a camera to be stored on CD discs, which can then be viewed on your PC. Photographs can be enhanced or manipulated using KODAK ACCESS or GRAPHICS WORKS software, to give you the results you need for your business presentations or the "family album".

MULTI-SESSION COMPATIBLE

Some applications require that the information written to a CD-ROM is updated on more than one occasion. This involves several or "multi" sessions of writing to the disc. Both the Mitsumi and Panasonic CD-ROM drives are multi-session compatible, which means that they can read all of the information which has been written to a CD in this way. Inferior, single-session drives can only read what was originally written on the first session, not the information added on subsequent sessions. Applications such as Kodak's PhotoCD use multi-session technology to update CDs with additional photographs. Other users of multi-session technology will include hospitals, updating medical records, plus many other users whose reference information is constantly being updated.

MULTIMEDIA (MPC) COMPATIBLE

The Mitsumi and Panasonic CD-ROM drives are ready for all types of multimedia applications. They are fully compliant with the Multimedia PC (MPC) standard, full compatibility with existing and future multimedia programs.

EASY TO INSTALL AND USE

Both drives are easy to install. Just slide them into a spare 5.25" drive bay in your PC. They do not require disc caddies and disc loading is via a manual slide mechanism on the Mitsumi drive and electronic on the Panasonic drive.

HOW THE MITSUMI AND PANASONIC CD-ROM DRIVES COMPARE TO THE COMPETITION

	RRP EXC. VAT	ACCESS TIME (MS)	DATA TRANSFER RATE (KB/S)	MPC COMPATIBLE	KODAK PHOTOCD COMPATIBLE	CACHE MEMORY	DUST SEAL	MULTI- SESSION
MITSUMI LU005S	£149	350	175	✓	✓	32k	✓	✓
HITACHI 3700Y	£410	300	150	✓	-	64k	✓	-
PHILIPS 462M	£349	350	175	✓	✓	32k	-	✓
TOSHIBA 3401B	£499	200	375	✓	✓	64k	✓	✓
NEC MULTISPIN 34	£409	280	300	✓	✓	256k	✓	✓
PANASONIC CR562B	£334	320	300	✓	✓	64k	✓	✓
PHILIPS 215	£329	360	175	✓	✓	64k	✓	✓
SONY CDU 31A	£395	550	150	✓	✓	64k	-	✓

All of these drives are internal and, at the prices shown, include an interface card, except the Toshiba 3401B. This internal drive does not include an interface and is priced at an RRP of £499.

SOUND GALAXY SOUND CARDS

To complement these CD-ROM drives, we also stock the high quality range of CD compatible Sound Galaxy PC Sound Cards. Details of the Sound Galaxy range will be sent with your CD-ROM drive literature.

CD-ROM DRIVES

MITSUMI

LU005S

MULTI-SESSION SINGLE SPEED



- PLAYS AUDIO CDs
- DUST PROOF MECHANISM
- SUPPORTS KODAK PHOTO CD
- INCLUDES 16-BIT AT INTERFACE CARD
- 5.25" INTERNAL DRIVE MOUNTING
- 175 Kb/SEC SUSTAINED DATA TRANSFER
- BUILT-IN 32K BUFFER
- RCA STYLE HEADPHONE CONNECTORS
- FULLY MPC COMPLIANT
- 2 YEAR WARRANTY **FREE DELIVERY**

£139

+VAT = £163.33 CDR 3005

Panasonic CR562B

MULTI-SESSION DOUBLE SPEED



- PLAYS AUDIO CDs
- DUST PROOF - EMBEDDED LENS CLEANING
- SUPPORTS KODAK PHOTO CD
- FREE 16-BIT AT INTERFACE CARD
- 5.25" INTERNAL DRIVE MOUNTING
- DUAL SPEED TRANSFER - 150/300 Kb/SEC SUSTAINED DATA TRANSFER
- BUILT-IN 64K BUFFER
- RCA STYLE HEADPHONE CONNECTORS
- FULLY MPC COMPLIANT
- MOTORISED TRAY LOADING MECHANISM
- 1 YEAR WARRANTY **FREE DELIVERY**

£199

+VAT = £233.83 CDR 4097

FREE AT INTERFACE CARD

Silica Systems are pleased to offer a FREE 16-bit AT interface card with the Panasonic CD-ROM drive. It includes a data cable, for connection to the CD-ROM drive and an audio cable, to connect the CD-ROM Audio Out to the Audio In on an interface or sound card.

WORTH **£79.95** INC VAT

CD-ROM SOFTWARE

Buy either KODAK ACCESS or GRAPHICS WORKS software at special low prices, with your Mitsumi or Panasonic CD-ROM Drive.

SOFTWARE FEATURES COMPARISON	KODAK ACCESS	GRAPHICS WORKS
DIRECT PHOTO CD IMPORT	✓	✓
RESIZE OR CROP IMAGES	✓	✓
FLIP AND ROTATE IMAGES	✓	✓
EXPORT TO: BMP, TIFF, JPEG FORMATS	✓	✓
IMPORT FROM OTHER APPLICATIONS	-	-
SPECIAL VISUAL EFFECTS: BLUR, EMBOSS ETC	-	-
TEXT HANDLING	-	-
BITMAP DRAWING TOOLS	-	-
VECTOR DRAWING TOOLS	-	-
LOGO CREATION	-	-
PAINTING TOOLS - BRUSH ETC.	-	-
ALSO SUPPLIED:		
PRESENTATION PACKAGE INCLUDED	-	✓
WIPE AND FADE BETWEEN IMAGES	-	✓
WINDOWS DRAW PACKAGE INCLUDED	-	✓
VECTOR BASED DRAWING	-	✓
PICTURE IMAGE LIBRARY	24	1000
CLIPART LIBRARY - OVER 10,000 IMAGES	-	✓

KODAK ACCESS



The Kodak Access software application is Kodak's official PhotoCD software title. With it you can select, view and manipulate photographs which have been stored using Kodak's PhotoCD technology.

- View Stored Photographs
- Crop & Resize Images
- Rotate & Flip Pictures
- Export to Other Programs
- Change Colours

RRP ~~£85~~ +VAT
£20
+VAT = £23.50 CRK 5001

GRAPHICS WORKS



Graphics Works from Micrografix® provides all of the functions found in Kodak Access, PLUS the ability to edit images or existing photographs, apply special effects and then save them in other formats. Also supplied are three extra programs which allow you to create presentations, edit logos, or use one of the 10,000 supplied images in your own applications!

RRP ~~£295~~ +VAT
£50
+VAT = £58.75 CRG 5100

SPECIAL SOFTWARE PRICES ONLY AVAILABLE WHEN PURCHASED WITH A MITSUMI OR PANASONIC CD-ROM DRIVE

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 14 YEARS:** Proven track record in professional computer sales.
- **£12 MILLION TURNOVER (with 60 staff):** Solid, reliable and profitable.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
- **SHOWROOMS:** Demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers + software and peripheral details.
- **PAYMENT:** Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new PC Peripherals, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional accessories, consumables or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE
081-309 1111

SILICA SYSTEMS

MAIL ORDER: Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-309 1111 Fax No: 081-308 0608
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000 Fax No: 071-323 4737
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-7.00pm	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB Late Night: Thursday - 8pm	Tel: 071-629 1234 Extension: 3314
SIDCUP SHOP: Opening Hours: Mon-Sat 9.00am-5.30pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Late Night: Friday - 7pm	Tel: 081-302 8811 Fax No: 081-309 0017
ESSEX SHOP: Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm)	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Late Night: Thursday - 7pm	Tel: 0702 468039 Fax No: 0702 468039

PLEASE SEND INFORMATION ON PC CD-ROM DRIVES

Mr/Mrs/Ms: Initials: Surname: Date:

Company Name (if applicable):

Address:

Postcode:

Tel (Home): Tel (Work):

Which computer(s), if any, do you own?

1188

£&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.



The following is an extract from notes made by Brian Eno for Bono following their initial planning meeting for Zoo TV in November, 1991: "The visual aspect of the show should aspire to being as flexible and improvisational as the musical one: it wouldn't suit U2 to be locked into a programmed routine (although it might be OK to do that for certain limited set pieces within the show). The direction ought to be towards flexibility and evolvability and away from locked-in programs. This presents some freedoms and some problems; video is not by nature an improvisational medium".

He goes on to say: "You don't want to use video just in the ordinary, boring old way - basically only as a means of making the singer look bigger - but you also don't want to produce a show that is just arty, bitty and confusing".

Almost two years later, what you see as you enter the stadium - and let's not forget that this is a band with a solid stadium rock audience - is a towering set of antennae, 'Digiwalls' and 'Vidiwalls' which resembles a television relay station and an oil refinery in equal measure. Beneath the stage, in an area known as Underworld, a cool eight million dollars worth of video tackle is presided over by Dave Lemmink, chief video engineer and unofficial tour guide. This is the guy who has to make U2's dream actually work, night after night, and his explication is delivered with practised finesse.

"What we have on stage is three giant screens made up of 178 Digiwall cubes, a product developed by a Belgian company that uses European projectors, and which is available in an array that goes up similar to loudspeakers in a large touring environment. The computers are locked underneath one of these. The projectors inside the Digiwalls are your typical 3-gun projectors, like any TV, but modified to project onto a 41-inch screen. We also have an additional four large screens, which are 48 Vidiwall cubes - a Philips product."

Underworld is where all the video imagery used in the show is processed - a combination of live shots of the band on stage and pre-recorded, pre-sequenced events. Video director Monica Caston sits front-of-house and switches between the live cameras which are on stage - four broadcast cameras and a consumer 'Handicam' hand-held by Bono. In addition there are two satellite feeds coming in and two small cameras attached to the drum kit.

"What we do," explains Dave, "is take the live mix that Monica is doing up front, distribute that among the different video walls and intercut with the pre-recorded material. This is stored on ten laser disk players, each one of which holds an hour of material. So during the two and a half hour show you actually watch ten hours of television. Laser disk allows us instant access to any frame or series of frames or sequence on the disk, so it's a very easy random access format. With tape you'd have to cue it forward or back".

And following Eno's brief, random access is essential. "Everyday," reveals Dave, "different songs are added or deleted or changed or moved around in the set. There are about three basic sets that the band does. Plus, they are definitely a live performance band. They are not the type of band that wants to be regulated by a clock or a click-track. So most of the stuff they are playing is actually regulated by the speed that the band goes. It's actually up to the band. What happens is there is a MIDI rig for the backing tracks, but the operator back there has full control, so when the band skips a chorus, adds a verse, he can track with it.

"There are some pre-sequenced songs that are there

just because of the visuals that are included with them. For example, 'The Fly' needs to be pretty tightly regulated so that the images come up at the same time. But then there are other songs which are pretty much free form - the B-stage songs for example, which are performed out on the auxiliary stage".

Dave and his colleagues sit three feet below Adam Clayton's bass rig... "so as you can imagine it gets a little loud during the performance," he smiles. "But it allows us real quick access if we ever do have a problem". Here they control what is essentially the insides of an outside broadcast truck, adapted for transport anywhere in the world within 24 hours and heavily protected against the harsh road environment. Included is a control panel for camera brightness and colour levels, standard amplification, monitoring and video effects racks, and record and playback decks for local footage shot at every venue and edited for integration into the show. "These are our video confessionals," Dave says with some relish, "where the audience has a chance to come in and make their 20-second confessional. It can be anything they want..." Shot in a converted portaloos by the mix position during the opening acts, the confessionals are edited together immediately before the show and broadcast before the encore.

The video team also source audio segments from the laser disks, which are mixed on their own audio console before being sent front-of-house. But the real showpiece of Underworld is the computer control of every video sequence. "This is what enables us to access any frame or sequence of frames at the drop of a hat," says Dave. "It's also set up in way that we can sequence a set of visuals - for example, just an ambient loop of, let's say, colour fields going through a spectrum of colours. We can also loop a visual, in which case we have a 7-second set of visuals auto-repeating. Some of Brian Eno's fractal images are looped towards the end of the set..."

"This is probably what makes Zoo TV Zoo TV. The computer control has actually evolved over the course of the tour. We originally started with



Animal Magic

Towards the end of 1991, Brian Eno and U2 discussed plans for a state-of-the-art multimedia stage-set for the band's forthcoming world tour. These plans became Zoo TV, a giant interactive television studio on the road. The UK leg of the tour brought this show to Wembley Stadium, where Phil Ward caught up with U2's video engineer Dave Lemmink to discover how far Eno's vision had become a reality.

WATCH MORE TV

two separate computers to control the video walls, and then a second computer controlling disk players and routers. When we went to the outdoor leg of the United States tour, we had three computers, and added additional large screens. And then finally when we got to Europe here we transferred everything to a Windows-oriented language... so these are actually running on a

PC running windows. And it's all custom software that I wrote specifically for the tour.

"It's pretty much a visual sequencer, like the musical sequencers that are available now with MIDI. So we can click on individual screens with the mouse, anywhere on the three large screens or the four Vidiwalls which make up the projection surfaces. We can pick any section of the screen and route an image to that. That way we can have multiple images on each screen. We can break it up to as many squares as these are made of... each one of these squares [on the computer screen] represents one of the Digiwall cubes I showed you earlier. So we've got instant access to all that data, and all on a real-time basis.

"The routing controls allow us to route the 24 primary inputs to the system, those being cameras, laser disks, tape players and satellite feeds. And route those to the different outputs - there are over 200 outputs on the system and at any time any of the inputs can be routed to any of the outputs. So you'll notice that certain songs, like 'The Fly', will have the same thing projected on every screen, as opposed to a song like 'Desire' where you'll see up to seven laser disks running on different screens.

"And down here is our media control page. This is where we actually control the laser disks and tape players. What we can do is assign a frame number so that we can start a particular frame, end at a particular frame, run a sequence, run a loop, just run a segment, stop or freeze on a particular image. All that is pre-programmed in the cues that make up the show. What we do is we build these cues and take the cues and build them into effects. And, what we use effects for is essentially songs, so at any time we can jump from song to song and bring up the associated cues. We also have a SMPTE interface which locks on to the keyboard generating SMPTE time code.

"What happens is The Edge has a MIDI trigger, which starts his MIDI sequencer, which generates SMPTE time code which we lock onto. For certain segments - again, 'The Fly', which is very much a synchronous song - we will lock onto the MIDI song. There's a few other songs where halfway through we'll start a sequence, and it will automatically take over. As soon as the bands gets to that section, it will execute those cues. If the band takes their time getting to that section, we're not running graphics early.

"During 'Numb', for example, you'll actually see the visuals in the background, actually taking place and making the noises. A little bit of hardware is involved in this: we carry with us 486-66s, which is really high-tech as far as your personal computers go. The difference is these are all rackmounted in 19-inch racks! It's the same PC you buy in a store, customized for the road. It's truly what we call a visual sequencer, where we can sequence visuals as you would musical sequences".

The sequences themselves, featuring newsreel footage, animation, graphics and a kaleidoscopic montage of television imagery, were produced by Ned O'Hanlon and directed by Maurice Linnane, in conjunction with a number of producers from MTV and Brian Eno himself. The challenge, from the beginning, was to find the technological means to express visual and musical ideas in a flux, one which necessarily takes account of both the chaos of media culture and the improvisational give and take of a rock band. The solutions, courtesy of Dave Lemmink and his team, do more than meet this challenge: they offer a blueprint for interactive, multimedia expression that could serve a whole generation. •

*extracts courtesy of *Opal Information Number 21*
published by Opal Ltd, PO Box 141, Leigh-On-Sea, Essex



Zoology

Production control equipment

Two IBM-compatible 486DX2 66MHz computers:
8Mb RAM
240Mb HDD
28 serial ports (three Arnet multiport cards)
Maxstone multimonitor card
Four VGA monitors
For-A CVM600 component production switcher
Grass Valley 20-TEN series routing
BTS TAS/TVS series routing
Grass Valley video transcoding,

encoding and distribution
Eleven Pioneer LDV8000 video disc players
Two Sony 9800 series three-quarter-inch SP tape decks
Two Sony BVW series Betacam SP tape decks
Four Ikegami HL-55A Broadcast chip cameras and CCUs
Two Sony Handicams (known on this tour as 'Bonocams')
Four Sony lipstick cameras
Two satellite receivers
Magni and Tektronix test equipment
Sony and Ikegami production and preview monitors

Projection equipment

Three Digiwalls, made up of 41" diagonal
Digiwall projection cubes
screen 1: 14 cubes high by 6 cubes wide

screen 2: 9-high by 5-wide
screen 3: 7-wide by 7-high
Four onstage Vidiwalls
all walls 4 cubes high by 3 cubes wide
36 Barco 27" monitors



BARNABY MARDER MUSIC

16 Red Lion Street
Richmond Surrey
☎ 081 948 8795
☎ 081 948 8971
Fax: 081 332 7241

PROFESSIONAL
AUDIO & DIGITAL

OUR SERVICES INCLUDE:
MAIL ORDER, PART EXCHANGE
INSTANT CREDIT AVAILABLE -
(written details available upon request)

ALL PRICES INCLUDE VAT
MOST PRICES ARE R.R.P.s - WE WILL
BEAT ANY GENUINE WRITTEN QUOTE.
PLEASE CALL FOR DETAILS

PORTASTUDIOS

Always in stock and ready to go, complete with free tapes and guaranteed overnight delivery.



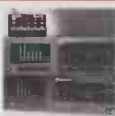
Fostex X18£265
Fostex X28£325
Fostex X28H£375
Fostex 280£599
Fostex 380S with Dolby S.£650
Tascam Porta 05.....£299
Tascam Porta 07.....£379

Tascam 424£499
Tasam 464.....£799
Tasam 644 MIDI studio.....£1199
Yamaha MT 120£389
Vestax rangeEP.O.A.
Marantz PMD 740.....£750

8 TRACK

ANALOGUE

Tascam 488£1499
Tascam 688 MIDI Studio.....£2699
Tascam 238£1549
Tascam 238S (with dolby S)£1699
Tascam TSR8 (1/2 inch tape).....£2499
Yamaha MT8X£1199
Fostex R8 (1/4 inch)£1399
Revox C278£P.O.A



Alesis ADAT



DA88

DIGITAL

These two products are likely to be considered the most innovative examples of recording hardware this decade. They both have their similarities, low price, pro quality, and the ability to sync up to 16 machines together being the most important. But the differences between them, tape formats and transport/function for instance, may be important to you when determining what is appropriate for your studio. Our advice includes an objective appraisal of both formats, which as main dealers for both products we are qualified to give. There are already thousands of happy digital users out there enjoying quality that until recently was beyond their wildest dreams. If you would like to be one of their number, give us a call!

(Digital Hotline 081-948-8971 or 081-995-1697)

16 AND 24 TRACKS

FOSTEX OR TASCAM

The upside of the recent success of the A-DAT and the DA-88 as far as analogue recording is concerned, is that now is the ideal time to obtain an absolute bargain on a pro reel to reel machine. Despite many rumors to the contrary, analogue recording is very much still with us. Indeed many users, (including our own clients who produce top acts), will not settle



for anything other than analogue with Dolby S. We are currently in the process of producing a new fax pack which will go into the analogue v digital debate in some detail, so if you want to know what is best you (and why), call or fax us with your details, and we will send you a free fax pack just as soon as it is ready. Meanwhile, for unbeatable quotes on Fostex G series and Tascam MSR series machines, please call for prices and details.

MIXING DESKS

Soundtracs Consoles - Whole range now available call for details

ALLEN & HEATH

Best selling range includes G53, Spectrum, and Saber Series. Exciting new automated desks soon to be announced, please call for details.

FOSTEX

812£1950
820£1399
2412£2995

MACKIE

Whole range available, including the ever popular 1202 - Call for best prices.

SOUNDCRAFT

Spirit 16:8:2£1999
Spirit auto 16:8:2£2999
Spirit 24:8:2£2950
Spirit auto 24:8:2£4450
6000 series (16 Buss).....from £5500
6000 series (24 Buss).....from £9800

STUDIOMASTER

Diamond 8:2RRP £335
Diamond 12:2RRP £425
Diamond 8:2 RBRRP £375
Diamond 16:2RRP £499
Session mix gold 8:2RRP £525
Session mix gold 12:2 RRRP £659
Session mix gold 16:2RRP £925

PROLINE

gold 16:4:8RRP £1299
Mixdown gold 16:8:16£1499
Trackmix 24:12:24RRP £4500
Trackmix 32:12:24RRP £5300
Powerhouse 8:2£999
Powerhouse 12:2£999

TASCAM

A superb new range highlighting Tascam's usual flair for innovation and commitment to quality. Also good news is that we keep virtually the whole range in stock.

M06 ST 6:2 stereo inputsPOA
M 1016 16:2 RackmountPOA
M 1516 16:4:16 with dual mixPOA

M2516

16:8:2 with MIDI mutingPOA
M 2524 24:8:2 with MIDI mutingPOA
M3500 24 pr desk 24:8:2POA
M 3700 32 32:8:2 automated amazing value pro deskPOA

YAMAHA

AM 602 6:2£179
MV 1602 16:2 Rackmount£750
MR 842 8:4:2£799
MR 1642 16:4:2£1195
P2820 8ch 200w stereo£999

NEW PRODUCTS

Lexicon Alex Reverb£389
Yamaha FX550CALL
Aphex Aural Exciter CZ BB£299
JL Cooper PPSI amazing value SMPTE, FSK Box£185
Zoom 9120£435
Studiomaster P7, new mixing consoleP.O.A.
AKAI S3000, new range of samplersCALL FOR DETAILS

Soundcraft Spirit Folio rangeP.O.A.
Sessionmaster II direct guitar pre ampCALL
THE FALCONS HAVE LANDED We stock the amazing new Atari Falcon range PLEASE CALL FOR DETAILS
LA Audio 4x4, 4 channel dynamic processor£299
New Mackie 8 Bus DesksCALL FOR DETAILS
Symetrix S64E four channel expander gate.
Drawner 1960 Valve Compressor.

OUTBOARD EFFECTS

We are major supplier of the following makes, Alesis, Art, BBE, Behringer, Boss, Digitech, Drawner, Lexicon, Yamaha, Zoom plus a few more. Call if what you are looking for is now shown below.

ALESIS
Microverb III£225
Midiverb III£295
Quadriver +£440
Quadriver GT£510
3630 Compressor£265
MEQ 230 graphic£235

ART

Multiverb Alpha£350

BBE

322 Sonic maximiser£225
422 Sonic maximiser£325

BEHRINGER

EX 2200X Multiband Enhancer£305
SNR 2021 denoiser£265
MDX 402 Auto Comp/Limit£265
HA 903 Headphone amp£299

DIGITECH

VHM 5 Vocalist£799
DSP16 FX Processor£245
GSP 21 Legend£699

DRAWNER

LX20 Comp/Expander£275
DS 301 exp/noise gate£575
DL 221 Comp/Limiter£395
1960 tube compressor£895

LX20

Comp/Expander£275

LEXICON

LXP1£450
LXP5£499

LXP15

.....£995

Lexicon Alex Reverb£389

YAMAHA

EMP 100 multi effects£250
EMP 700 digital multi effects£399
SPX 990£625
SPX 1000£999

ZOOM

9000 package£275
9002 guitar processor£295
9030 instrument processor£550
9010 professional processor£775

MICROPHONE & MONITORS

IN STOCK - AKG, Audio Technia, Beyer Dynamic, Bruel & Kjaer, Neumann, Sennheiser, Shure and many others. Call for lowest prices.
For monitors we stock and recommend - Fostex, JBL, Tannoy, Yamaha.
NEW J.B.L 4206 Pair £299, J.B.L 4808 Pair £375

MASTERING

Awa HNB 1 Pro portable DAT£699
Tascam 102£249
Tascam DA30 DAT£1095
Tascam 103£299
Tascam 22:2 open reel£775
Phillips DCC900EP.O.A.
Tascam 32 open reel£1295
Sony DTC 690, new£525

Digitech MEQ£299
Dual 14 s/h£299
Tascam 22.2 open reel mastering machine£499
Nomad Axxeman S/H£150
Passport Mastertracks Pro Software£75
Rocktron Prorax EX1 exciter and Hush IIX together with rackmount kit£199
Roland S220 Sampler with over 100 quick disks£399
Roland TR505 s/h£99
Steinberg Avalon with 16 bit stereo converter£375
Steinberg Pro 24 V III£99
Studiomaster Sessionmix Gold 16:2£650
Studiomaster Ufex stereo gate£189
Studiomaster Ufex stereo compressor£189
Studiomaster Series II 16:8:2£2199
Studiomaster 8:4:2 R£599
Studiomaster Proline 16:4:8£899
Rebis Multi-Rack comprising 2 x digital samplers, 2 x compressor/limiters, 3 x noise gates, 1 x filter gate, 2 x parametric EQs, complete in rackmount flightcase for only£650
Simmons MTX9 Drum expander£145
Yamaha RX17£125
3 Quad 50E Power Amps£199
Sideman SM4 Compressor£35
TEAC CDP 3500 New Remote CD Player£189
TEAC WS25R New Twin Cassette Deck£189
Roland Jupiter 6-synth inc MIDI upgrade. (boxed)£699
JBL control 1 monitors£199



Otari MX5050 8 track 1/2 inch pro multitrack S/H£1999
C-Lab polyframe synth editor£150
Rockman Smartgate£99
Roland PG1000 Programmer for D50£250
Roland P330 Piano module£375
Yamaha RX11 drum machine S/H£99
Alesis MM78 Sequencer£275
Korg Poly 61 synth£250
Kawai K1 Synth£299
Revox B77£499
Emu Proteus II - XR, S/H£599
Fostex 812 desk with MIDI muting, ex-demo£750
JHS Rackmount digital delay S/H£99
Tascam MSR16, ex-demo£2999
Yamaha DMP7D Digital Mixer & Yamaha AD808 A/D convertor together£2999
Roland JX8P synth£475
Korg DD110 Drum Machine£75
Roland U110 Synth Module£299
Yamaha RY10£235

HARDWARE

STOP PRESS

COMPAQ COMPUTERS - EXCLUSIVE DEALS

If, like many other people you have been waiting to move into PC's but are a little dubious as to the quality of the hardware currently in offer then your wait is over. Look for our half page ad in Music Technology and find out about our unique packages based on Europe's leading PC brand - Compaq.

Atari 1040 STE & monitor & mouse£425
Atari Falcon 1 meg£589
Atari Falcon 4 meg & 65 meg Hard disk£995
Apple Macintosh Classic & LC rangeP.O.A.
Alesis Databack sq£299
Steinberg Midex plus£375
C-Lab Unitor II£275
Fostex MTC-1£235
Tascam MMC 100£299
Philips Rees Midi merge unit£75
Midiman switchable junction box£79
Philips Rees MIDI patchbay£99

INSTRUMENTS & EXPANDERS

E-MU Proformance£299
E-MU Proteus 1£549
E-MU Proteus 2£649
E-MU Proteus 3£549
E-MU MPS Proteus Keyboard£950
E-MU Procussion£549
Alesis SR16 drum machine£265
Alesis D4 Drum Expander£345
New Akai S01£750
Akai S 2800 SamplerP.O.A.
Akai S 3000 SamplerP.O.A.
Korg M1£850
Korg 01/W FD£1495
Ensoniq Sq1£1195
Roland JV 80P.O.A.
E-MU J8000P.O.A.
Yamaha SY35£599
Yamaha SY85P.O.A.
Yamaha TG100£350
Yamaha TG500P.O.A.
Yamaha RY10£235
ROLAND WHOLE RANGE AVAILABLE
Gem SeriesP.O.A.

SOFTWARE

Steinberg Cubase VIIIP.O.A.
Steinberg Cubase (Mac)P.O.A.
Steinberg CubaseP.O.A.
Steinberg Pro 24 III£95
Steinberg Cubase Windows (P.C.)P.O.A.
Emagic Creator Version 3.1£199
Emagic Notator Version 3.1£299
New Emagic Notator Logic 4.25£425
New Cubase AudioCALL

BARGAIN BASEMENT

MIDI MART



081 948 8795

MAIL ORDER HOTLINES



081 948 8971



- 50 **Roland JV-1000 music workstation**
Keyboard-driven control Simon Trask
- 52 **Studiomaster Star System 8:4:2 mixer**
The ergonomics of the small mixer redefined Ian Masterson
- 54 **Passport Producer multimedia software for the Mac**
A video edit suite on disk? Ian Waugh
- 56 **Zoom 9001 advanced multi-effects processor**
Programmable audio effects for the studio or the stage Ian Waugh
- 58 **Ensoniq CDR-1 sample CD-ROM**
Hundreds of samples on tap John Wright
- 61 **Akai DR4d hard disk recorder**
Direct-to-disk recording from the sample stable Ian Masterson
- 64 **Pulsar Universal Interface**
Let your MIDI rig control your lighting John Wright
- 68 **Korg 05R/W General MIDI module**
Less knobs, more sounds John Wright
- 71 **Peavey XR-1200D powered mixer + HiSys 2 monitors**
A PA system you can take anywhere Nicholas Rowland
- 74 **Novation mm10-X keyboard**
The simplest way of talking to your QY10/QY20 Nicholas Rowland
- 76 **Short Cuts**
Vintage Synthesizers edited by Mark Vatt. An American book celebrating the classics Peter 'A-Z' Forrest

Q
U
A
L
I
T
Y

C
O
N
T
R
O
L

Contributors:

- Ian Waugh
- Simon Trask
- Peter Forrest
- Nicholas Rowland
- John Wright
- Ian Masterson



Roland

JV-1000

Music workstation

Roland's latest flagship sees them keeping the workstation genre afloat – but is the JV-1000 seaworthy? Simon Trask sets sail...

Unlike some of their competitors, Roland haven't seemed particularly wedded to the workstation concept. In fact, their new machine, the JV-1000, can be seen as a justifiable (some might say belated) attempt by the company to cater for this prestige end of the market – where the likes of Korg and Yamaha are already well represented by the O1/W Pro and Pro X and the SY99 respectively.

Essentially the JV-1000 combines Roland's JV80 synth and MC50 MkII sequencer into a single instrument, but with a 76-note keyboard replacing the JV80's standard 61-note affair. In addition, it provides built-in support for an optional GS Format module – the snappily-titled V-EXP board – which slots into a 'docking bay' on the underside of the new synth. Adding this board to the JV-1000 gives you 56-voice polyphony (28 JV80 voices plus 28 V-EXP voices) and 24-part multitimbrality (eight JV80 Parts plus 16 V-EXP Parts)

File-o-fax



The JV-1000's ability to read and write Standard MIDI Files via its onboard disk drive means you can transfer your own sequences on disk between a computer-based sequencer and the JV-1000's onboard sequencer. You can also draw on the huge commercial libraries of MIDI songfiles available on disk in Roland's GS Format for use with the V-EXP board.

Through its MC50 heritage, the JV-1000's onboard sequencer is a tried and tested playback medium with a good reputation for reliability onstage, making it an attractive alternative to computer-based sequence playback at a gig.

before you have to start involving yourself with MIDI and external modules.

In essence, then, the 1000 gives you 'all-in-one modularity', if that's not a contradiction in terms. It even celebrates this modular approach by presenting its JV80 and MC50 components via separate front-panel layouts (synth to the left, sequencer to the right), each complete with its own LCD window. These layouts are broadly similar to those of the original instruments, bringing the added benefit of operational familiarity for JV80 and MC50 users. But whether or not you're familiar with these instruments, the 'modular access' approach adopted by the JV-1000 has much to recommend it over the more familiar centralised access; perhaps we shall see more manufacturers going modular in their front-panel designs.

The JV-1000 includes a few features in its synthesis section not found on the JV80. Perhaps most significantly, you get double the number of factory-preset sounds. Roland have taken the opportunity to reorganise the preset Patch selection in Banks A and B, although for compatibility purposes you can call up the original JV80 Banks if you want. The latest JV also has an



expanded waveform ROM, with more drum and percussion samples (including a jazz kit) and a new sampled acoustic piano added to the existing samples. Roland obviously felt that, as a player-orientated instrument, the JV-1000 needed a better acoustic piano than the JV80 provided, and I'm inclined to agree; the new sampled piano dutifully fills this role.

Other new features are global transposition on/off, sustain pedal re-damp (which lets you sustain a sound at any point during its release stage), and Layer/Zone record on/off (used for multi-part recording), together with a very useful Info function which helps you to keep track of what Parts are in use in a JV-1000 Performance, how many voices they're using up, and which Parts are having real-time performance data such as modulation and pitchbend routed to them.

As on the JV80, a Performance can consist of up to eight Parts, each of which can be assigned a Patch.

The Performance is a flexible beast. You can, for instance, use it for recording and playing back multitimbral sequences or for playing sophisticated multi-part split/layer sound textures on the keyboard. You can also use it to turn the JV-1000 into a MIDI controller keyboard. In this context, you can have up to eight internal/MIDI zones on the keyboard, each with its own MIDI transmit channel and its own patch change, volume and pan settings which can be transmitted via MIDI Out when the Performance is selected.

The eight Parts of a Performance needn't correspond to the eight phrase tracks of the JV-1000's onboard sequencer: you could record all eight tracks using the same Patch if you really wanted to. Also, taking advantage of the L/Z record parameter mentioned earlier, you can record into a phrase track using, for instance, a double bass and acoustic piano split. Select a different Performance and your sequence will play back using the sounds of that Performance, a fact which you can turn to your advantage (eg. you can easily experiment with different sets of sounds for a sequence, or you can create mute 'snapshots' which can be called up spontaneously during playback). In fact, given all the possible applications for Performances, it's a crying (nay, sobbing) shame that Roland haven't upped the number of user-programmable Performance memories from the 16 provided on the JV80. Surely this could have been easily accomplished?

You can use a combination of internal synth sounds, V-EXP sounds and external MIDI'd sounds for your JV-1000 sequences. In effect the onboard sequencer has two outputs, and the synth section and V-EXP board can be connected to these outs in one of two possible configurations: either both hang off Out 1, or the synth section hangs off Out 1 and the V-EXP board hangs off Out 2. In both cases, Out 2 is routed to the Sequencer Out MIDI socket on the JV-1000's rear panel, giving you access to external MIDI'd sounds.

To add to this flexibility, each sequencer track can be routed to Out 1, Out 2 or Out 1 and 2; the JV-1000's keyboard 'soft thru' parameter provides the same choice of settings, giving you plenty of flexibility in the selection of sounds to add live over a sequence. And if you disable the soft thru function, you can use the JV-1000's keyboard to play onboard Patches and Performances together with external MIDI'd sounds via the JV's standard MIDI Out socket – leaving the Sequencer Out socket to handle all the sequenced MIDI parts.



The potential disadvantage of this approach is that you might need two external MIDI instruments where one would have done, but the advantage is that by separating live and sequenced MIDI parts onto two different MIDI busses you reduce the amount of data on each buss, and so lessen the likelihood of MIDI logjams with their attendant delays.

At the risk of oversimplification, sonically the JV-1000 is a great pianos 'n' pads instrument, with acoustic and electric pianos, ensemble strings and bright, shimmering, exotic pad sounds being its real forte. Tuned percussion has long been a Roland strong point, and here too the JV-1000 scores well. Its bass sounds are undeniably powerful, but to my mind they lack warmth and richness. The acoustic guitars are very effective, but I'm not so enamoured of the electric guitars, nor of many of the brass and lead synth sounds. The drum and percussion sounds are, as usual, competent but somehow less inspired (and definitely less off-the-wall) than typical offerings from Korg or Ensoniq. And Roland will insist on having a ridiculously small number of Rhythm Kits, too.

The onboard sequencer has much to recommend it: well thought out, straightforward in use, and possessed of just about all the editing features you could need, all presented in an accessible manner. However, I do wish Roland had upped the number of phrase tracks to a more reasonable 16. And while we're talking wishes, several individual audio outs wouldn't have gone amiss either.

I've concentrated in this review on the features which define the JV-1000 as an instrument in its own right - its workstation credentials, if you like. In this respect, it has, to my mind, plenty to recommend it for both stage and studio use. While being a versatile instrument it's also very accessible, blessed as it is with a front panel which says "use me!". Mature in concept and design, the JV-1000 could be criticised for being rather staid in attitude - but if that doesn't bother you, it may well be the right instrument for you. If you want to investigate further, you could start by reading MT's reviews of the JV80 and MC50 (May '92 and January '91 respectively).

Now, Roland, when are you going to bring out a really exciting, really new synth? ●

THE LAST WORD

Ease of use	A very accessible instrument
Originality	Not what it's about at all
Value for money	Reasonably good
Star quality	A seasoned performer rather than a fresh new face
Price	JV-1000 £2140 • V-EXP GS Format board £299 SR-JV wave expansion board £273
More from	Roland (UK) Ltd • Atlantic Close • Swansea Enterprise Park • Swansea • West Glamorgan • SA7 9FJ • Tel: 0792 310247 • Fax: 0792 310248

Hard fax

SYNTHESISER SECTION

Keyboard: 76 keys with attack and release velocity and channel aftertouch
Polyphony: 28 voices
Multitimbrality: eight Parts (in Performance mode)
Patch architecture: up to four layered/velocity-split Tones each containing a Waveform Generator, a Time Variant Filter (low-pass or high-pass, with soft/hard resonance) and a Time Variant Amplifier with dedicated envelopes (4-stage with velocity control over attack and release) and two freely assignable LFOs.
Factory presets: 256 Patches, 64 Performances, 4 Rhythm Sets
User-programmable memories: 64 Patches, 16 Performances, one Rhythm Set
Data Card (optional): 64 Patches, 16 Performances, one Rhythm Set
Wave Expansion Board (optional): 256 Patches (maximum)
PCM Card (optional): 128 Patches (maximum)
Effects: Chorus (three types); Reverb (eight types)
LCD: 2 x 40 characters, backlit

SEQUENCER SECTION

Memory: 256 Kbytes RAM
Storage capacity: approx. 40,000 notes
Tracks: eight multichannel phrase tracks, one pattern-based rhythm track, one tempo track
Songs: eight onboard; playback of a preset sequence of Songs loaded off disk is also possible
Maximum Song length: 9999 bars
Rhythm Instruments: 32
Rhythm Patterns: 240 per Song
Resolution: phrase tracks: 96 clocks per quarter note; Rhythm Pattern: 32nd notes
LCD: 2 x 20 characters, backlit
Disk drive: 3.5" DSDD, reads and writes Standard MIDI Files (formats 0 and 1)

REAR PANEL CONNECTIONS

JV-1000 L(Mono)/R and V-Exp L(Mono)/R audio out jacks
Headphones jack
Sustain pedal jack
Assignable pedal jacks x 2
MIDI In, Out, Thru and Sequencer Out
Card slots: PCM x 1, Data x 1
Sequencer start/stop jack
Sequencer punch in/out jack
Metronome output jack (with output level knob)
Tape Sync II in and out jacks (RCA phono)

BOTTOM PANEL

One 'docking bay' for the optional V-EXP GS Format board
One 'docking bay' for an SRV-JV wave expansion board

Dimensions

48.5" (W) x 13.75" (D) x 3.75" (H)/1232 x 348 x 97mm

Weight: 29lbs 2oz/13.5kg

Studiomaster

Star System

8:4:2 mixer



Photo: James Cumpsty

Ian Masterson gets all ergonomic with a mixer that combines versatility with synth-style twiddlability

There are those who love to buck trends and actually produce machines that take account of the way we humans really work – equipment that is ergonomically-designed and fitted only with features we really need. Which sounds like the cue for a song. Or better still, the Studiomaster Star.

All right, no prizes for spotting why the Star is so outrageously different from the hordes of other budget mixing consoles flooding the market. But the vertical control panel is no mere gimmick – it's just a bit of logic, Studiomaster-style. I mean, which is easier: craning your neck to read the EQ settings on a traditional flatbed console, or glancing up at the immediately-obvious knob settings on the Star? After all, you wouldn't mount a computer screen horizontally behind the keyboard, would you? So it makes perfect sense to have a mixer's faders in the usual horizontal position, but tilt the rest of the channel controls up to eye-level. And, if your studio is short of space, the Star is ideal – it can be situated on a simple 12" deep shelf, rather than a massive table. Now there's intelligent design for you.

However, the cleverness of the Star doesn't stop at mere front panel layout. Versatility is one other key element in Studiomaster's design philosophy, and the various channel configurations contain some surprisingly useful features. The basic system consists of eight dedicated mono channels, eight secondary mono channels (which double as tape returns for multitracking), ten stereo input channels (four with full faders and EQ) and a master fader grouping system, which can route the stereo signal to any of the eight tape outputs. In short, the Star can be used as a 38-input keyboard mixer, a multitrack desk, or even a live stage console or submixer.

Each of the main eight channels offers balanced mic or line inputs and channel insert, with defeatable 3-band EQ (no sweepable mid-range, unfortunately), access to three auxiliary busses, gain, pan, routing switch, 'listen' button and 'channel on' button – nothing highly unusual there. The secondary (tape) input channels simply have gain and pan controls, and access to a fourth aux send; but it's also possible to swap the inputs on the primary and secondary channels, so if you need to EQ a tape return on mixdown, you can.

The four principal stereo channels contain similar facilities to those found on the main eight, although access to the four aux busses is switchable in pairs: you can choose to send your signal either to busses 1 and 2 or 3 and 4. Interestingly, each of the four stereos has a second set of inputs, on phons, marked 'hi-fi'; these can be switched onto the channels instead of the main 1/4" line input. Since stereos 1 and 2 are capable of taking RIAA-level signals, you can even connect two turntables here – ideal for people who involve the use of records in their music. Each of these channels also carries a stereo insert circuit, so all possible connection options are kept open. The remaining six channels feature only a gain control and listen switch, so they're best employed as effects returns, or additional simple inputs for MIDI equipment. Incidentally, no less than two separate sets of connections are provided for mastering machines, complete with dubbing and copying facilities.

But the party doesn't stop there. Not only does the master section allow you (unusually) to add effects to the main stereo output signal, via dedicated aux send controls, it also incorporates a parametric EQ. And not only that – the EQ section actually has dedicated input/output sockets on the rear panel, allowing you to remove it from the stereo path and patch it into any of the channels using insert leads. It's this sort of attention to detail which has really won me over to the Star way of mixing.

Finally, the desk also incorporates a flexible monitoring system, switchable for either pre-fader or post-fader listening – you can even trim the amount of PFL signal sent to the monitor buss, to avoid deafening yourself when you hit one of the listen buttons. Naturally, a separate control for room monitor level is provided, and the final icing on the cake is a 'loudness' button of the sort normally found on home hi-fi amps. After all, if you're going to monitor your record decks, you'll need this – and if like me you're used to monitoring mixes through a hi-fi amp for comparison, a feature like this is invaluable.

The build quality of the Star is much like that on Studiomaster's flagship P7 console – similar components are used throughout. It's pretty obvious that the same attention to detail has been employed inside the box as well – the Star is incredibly quiet and sonically clean. The vertical front panel instantly makes the Star user-friendly and, er, 'charismatic'; this console is extremely enjoyable to use.

As usual with Studiomaster products, the price has been kept at an attractive level as well; despite the amount of careful R&D which has gone into the Star, it still costs under a grand (before VAT). But I reckon most people will buy it because of the distinctive and ergonomic design – I definitely fancy a whole bank of these surrounding me in my studio, in a formation reminiscent of the bridge on the USS Enterprise. And you can't help being reminded of the heyday of classic modular analogue synth design when you look at the Star; this alone will win it many friends. All I'd like now is a version with sweepable mid-range EQ and twice as many dedicated channels. But even as it is, Studiomaster's latest desk still sheds a completely new light on the phrase 'star quality'. ●

THE LAST WORD

Ease of use	Plenty to twiddle, but no nasty headaches
Originality	Just take a look at the case
Value for money	38 channels for just over a grand
Star quality	Well, it's already a Star, innit?
Price	£1081 inc. VAT
More from	Studiomaster ● Studiomaster House ● Chaul End Lane ● Luton ● Beds LU4 8EZ ● Tel: 0582 570370 ● Fax: 0582 494343

THE POWER OF INTELLIGENT HARMONY

The ultimate in instrument harmonizers, the new DigiTech DHP-55 is the first five-part oversampled intelligent harmony processor designed especially for studio and instrument applications. Based on an innovative dual-micro/dual-DSP architecture, the DHP-55 can operate either as a true stereo or mono signal

processor. Proprietary technology allows the DHP-55 to provide a host of functions including intelligent five-part harmonies multi-octave pitch-shifting and, for the first time ever, true polyphonic (chordal) harmonizing.

Experience the power of intelligent harmony with DigiTech's revolutionary DHP-55 harmony processor and multi-effects system.

**NEW
EXCLUSIVE
POLYPHONIC
HARMONIZING**

DHP-55

- ▲ Intelligent 5-part harmonies
- ▲ 7, 15 or 31-band digital EQ configurations
- ▲ Up to 6 full seconds of digital delay, sampling and multi-tap stereo delays
- ▲ Lush chorusing and flanging
- ▲ Dual DSP architecture
- ▲ Multi-octave pitch shifting
- ▲ True stereo or mono
- ▲ Digitally controlled analog compression and gating
- ▲ Modulation effects
- ▲ Ducking and dynamic filtering effects
- ▲ Powerful continuous control functions
- ▲ Full MIDI control

DigiTech

For more information send a large SAE (Inc tel. no.) to Dept. DHP55
John Hornby Skewes & Co. Ltd., Salem House, Parkinson Approach, Garforth, Leeds LS25 2HR

Producer v1.1

multimedia software for the Mac

Fancy being the producer of your own audio-visual spectacular?
Fancy doing it in the comfort of your home? Fancy Ian Waugh?

Over the past few issues, *MT* has done its bit to de-mystify the phrase *multimedia*. In case it's a word you're still not familiar with, multimedia (in computing) is about combining music, speech, graphics and animation to produce, well, a production of some sort.

Multimedia presentations are already widely used in business, but with the advent of affordable computer music, video and animation packages, it's now possible for any Tom, Dick or Harriette to produce backgrounds, graphics and animation to create a video which can represent anything from a promo to a work of art in itself. The technology at this level is not quite ready to challenge the professional TV studio and edit suite, but the results can be impressive and applications are becoming a lot more affordable.

Producer is concerned with assembling the various bits and pieces which make up a production rather than with creating those elements in the first place. Producer's timing system is based on SMPTE which makes it very easy to sync to external devices, though you can also select a Real Time option if you don't need to sync. Operation is very easy and, thankfully, most of Producer's functions follow standard Mac operational procedures.

Producer has a number of tracks, like a sequencer, arranged vertically in a cue sheet window. To assemble a production you simply drag cues onto the tracks at the required positions. The tracks are marked in seconds and a counter tells you exactly at which position the cues are as you drag them. This makes it very easy to place and move cues to an accuracy of 1/100th of a second.

Take your cue

There are nine cue types:

Slide: A combination of text and graphics which share a common background colour or PICT image. There are transition functions which cause the text to be displayed by effects such as an opening iris, opening curtains and so on.

Movie: A series of frames in standard QuickTime Movie format.

Picture: Still graphic image in PICT format.

Animation: A series of frames in PICS format.

Marker: A placeholder used to mark a location within the cue sheet. These can be recorded manually into a track as the production plays and you can align Movies, for example, to the markers.

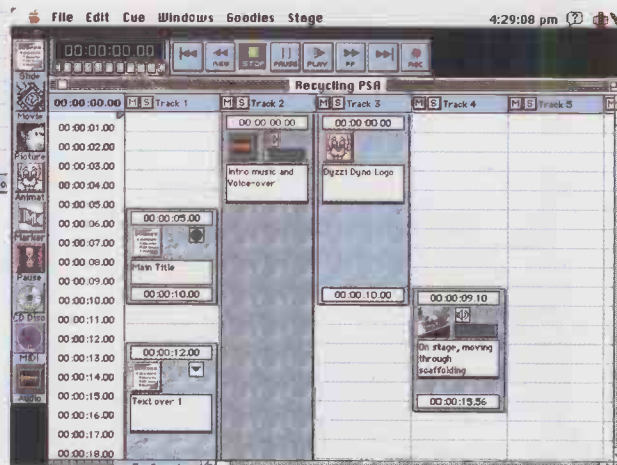
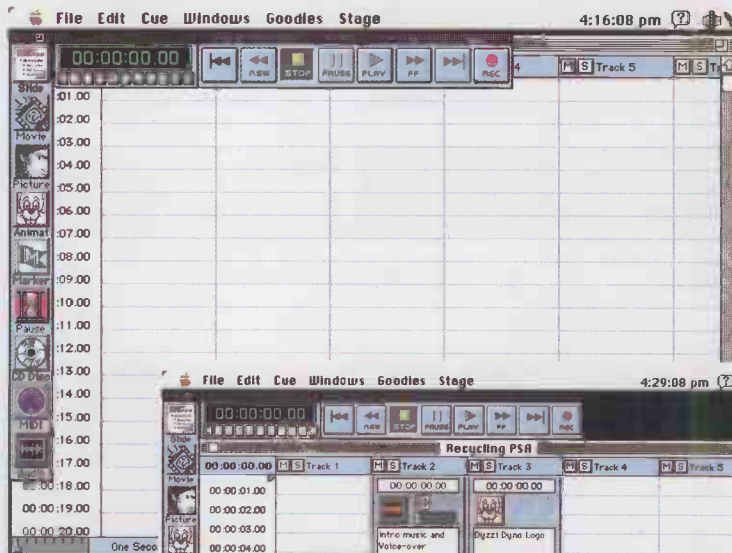
Pause: A command that stops playback and waits for a specific time or event such as a mouse or key press or a MIDI message.

CD: A command to play a CD audio track from a CD-ROM player.

MIDI: A command to play a Standard MIDI File in format 0 or 1.

Audio: A digital audio file in AIFF or Sound Designer II format.

A blank cue sheet in Producer waiting for cues to be dragged to it from the cue palette.



A typical cue sheet layout including slide shows, animation, digital audio and QuickTime Movies.

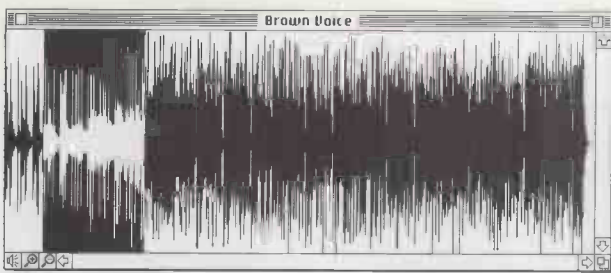
When you drag a cue onto a track, a dialogue box opens for you to locate the file you wish to play at that position. As Producer reads the files from disc, your production can be made up from many megabytes of data which does not all have to be in memory at once.

There are several types of media or cues you can work with - text, graphic images, movies, animation and sound files. The sound files can be digital audio files, MIDI files or sound files played from a CD - you'll need a CD-ROM drive for this. Producer supports several digital audio cards including Digidesign's AudioMedia II and ProTools, Media Vision Pro Audio Spectrum 16 and RasterOps Media Time.

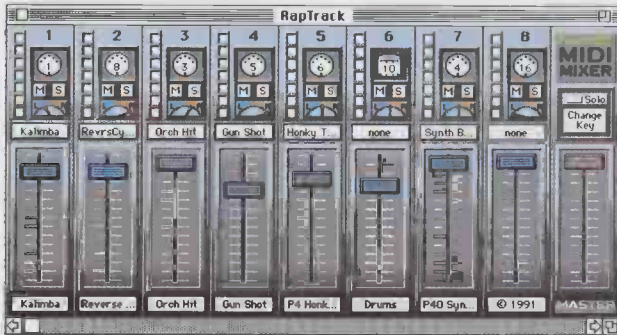
If too much is happening, some of the cues may not appear at all. You may well spend a fair amount of time making sure that the things you want to happen actually do happen, given the limitations of your Mac. However, Producer's timing and syncing abilities are one of its strongest features and take precedence over the playing of cues, so you should not run out of sync even if you do lose a cue or two. This, I think, is the way it should be.

The program defaults to eight tracks - which should be quite adequate for most productions - but you can add as many more as you need. However, if you ask your Mac to do too many things at the same time, expect hiccups and delays. It will help of course, if you have a reasonably powerful Mac: the program recommends at least a Ili.

Although Producer will handle 24-bit colour, the productions run more



You can cut and paste digital audio files.



Producer has a sophisticated MIDI Mixer for setting up playback of MIDI files.

smoothly in 8-bit colour. If you are using 24-bit, you'll need at least 8Mb of RAM, otherwise 5Mb will suffice. You can run with less, if say you're using a black and white system or a Powerbook or if you're just too plain mean to put some decent RAM in your machine, but once you start working with graphic images, you'll find RAM vanishes very quickly.

The visual cues are placed on a 'stage', which is that area of the screen used for the production. This defaults to the size of a 13" monitor but you can adjust the size and the position of the stage on the screen. The cues can be dragged to their required positions on the stage, too. One neat feature is the ability to work with multiple monitors although, of course, you need the wherewithal to buy a wall of Mac monitors in order to make the most of a production.

There are editors for the various cue types which let you tweak the associated files and perform functions such as retaining graphic files in memory for faster display. You can also link the files to proprietary editors such as Adobe Premier, VideoShop, Master Tracks Pro and Vision for more complete editing.

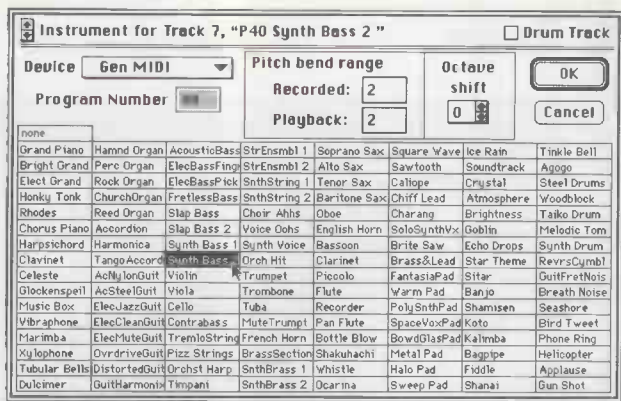
One of Producer's weakest points is its slide show and text editor, which is rather basic. It has limited formatting functions and lacks a transparent background so you can't print words on top of an image, for example. Also, it only supports PICT images, so if you want to use other types of image such as TIFF you'll need an image converter.

However, Producer has excellent sound and MIDI handling capabilities which is, perhaps, hardly surprising as it comes from a music software company. It also has a very good MIDI Mixer for selecting instrument sounds (defaulting to General MIDI), volumes and pan positions when it plays MIDI files. And it's possible to cut and paste digital audio files.

There are two manuals: *Getting Started* and a *Reference Guide*. The tutorial is excellent and takes you through most of the major features of the program. There is a 'Hints & Tips' section too which explains, among other things, how to speed up and improve the display performance. The package includes lots of backgrounds, audio and MIDI files which you can use in your own creations. When your production is complete, you can save it to video although you'll need a video card or composite video encoder for this.

You can also give away copies of your production to other Mac users using Producer Player, which is supplied with the package. This, as you can probably guess, is a playback-only version of Producer. It needs access to the files used to form the production and there are options to move, copy and produce aliases of the files. But if this is your intention, remember that graphic, animation and QuickTime files can be very large and even a fairly simple production will very likely be too large to fit onto a 1.4Mb floppy. Producer does allow PICS animation and AIFF files to be converted into QuickTime Movies using a range of compression techniques, but compression has its limits.

If you want to create a business-type presentation then you may find certain



You can assign GM sounds to each of the MIDI tracks.

of Producer's limitations in the text and graphics department more restrictive than you would like – even though the program is easy to use. However, if sound and music play a large part in your presentation, do give Producer a particularly close look.

If you're looking for a way to create some sort of visual display to accompany your music then Producer's text handling limitations will possibly seem less important, particularly in view of the program's excellent sound-handling capabilities and, as has already been said, its ease of use. This should not be overlooked when considering multimedia production software – some of it can take an age to get to grips with.

However, multimedia packages such as Producer are not digitised video editing kits, so don't think you're getting the computerised equivalent of a £20,000 video editing suite. QuickTime is fine as far as it goes, but it's not that good yet. Part of the problem, as ever, is the relatively slow speed of computers. The more Mac you have the better.

Producer has been well thought-out and although the die-hard multimedia user may enjoy picking holes in it, it does what you'd expect a multimedia package to do, and – here we go again – it does it with ease. Unless text is a major part of your plans, Producer has an awful lot to recommend it, and it's certainly a program to look at if you're new to the multimedia field. ●



You can select a wide range of backgrounds for your production.

THE LAST WORD

Ease of use	Excellent user interface
Originality	Its ease-of-use makes a refreshing change
Value for money	Ouch!
Star quality	Wins out with its sync and timing abilities
Price	£499.95 inc VAT
More from	MCMXCIX ● 9 Hatton Street ● London NW8 8PR ● Tel: 081 963 0663 ● Fax: 081 963 0624.

Zoom

9001

advanced multi-effects processor



Photo: James Cumpsty

High quality effects, easy programming and a budget price – Ian Waugh asks who's Zoomin' who?

The more sophisticated hi-tech gear becomes, the steeper the learning curve which must be assailed by those trying to get the best out of it. A simple fact of life, this is particularly true of equipment such as FX units which may sport dozens of seemingly inscrutable parameters such as spectrum shift, diffusion and high frequency decay.

It makes a refreshing change, then, to find a multi-FX unit you can use while supping your scrumpy and without getting lost in a hornet's nest of recursive menus looking for the post-FX early reflection pre-delay parameter.

The Zoom 9001 gives you none of this. In fact, it looks more like a foot pedal than a studio FX unit. It doesn't have MIDI (be honest – do you really use MIDI to program your FX unit on the fly, or even use program changes to select new patches?) and it's mercifully short on psychoacoustic parameters, yet still retains a high level of programmability.

For such a small unit, it's surprising to find jack sockets instead of phons – 10 out of 10, Zoom. There are stereo Ins and Outs on the back – although the Left In can be used as the Mono input – and there's a mini-jack headphone socket on the side. The On/Off button is also on the back along with a socket for a mains adaptor. The unit runs quite happily off batteries, but with a life of only three to six hours you really need to budget for an adaptor too.

Underneath the unit you'll find a Remote socket to which you can connect an optional FC01 foot controller. This has Bank and Patch switches for selecting patches, and it can activate the Bypass function.

The effects are arranged into eight banks and named to give you an indication of the area in which they would be most useful – although, as the manual points out, these are suggestions only. You are encouraged to experiment. In spite of the limited number of effects (compared to the 100-plus typically found on most current FX units), there is a surprisingly broad range. Zoom have obviously tried to cater for all potential users. We're not just talking keyboards here, but drums, guitars and vocals too.

Perhaps because of the limited memory, the effects tend to be quite different from each other – no room for subtle variations here. Of course, the mainstay of any FX unit is its reverb programs, and the 9001 is no exception. While

Effective programming

The Zoom 9001 has to be the easiest multi-FX unit to program ever. Having said that, it does deliberately limit the number of parameters you can tie yourself in knots with. Each effect has a maximum of five parameters – which vary according to the type of effect it is – plus a Program Level control. The parameters are selected using the Bank and Program buttons, and adjusted with the Value buttons – not too much multi-function button pressing going on here. The LCD display uses triangular bar displays to show the approximate values of the other parameters.

The 9001 has several effect types (reverb, chorus, limiter, EQ and so on) and when these appear in a particular configuration they are in a fixed order. For example, in the Slap Bass effect the signal runs through the Limiter, Enhancer, Mid Booster and Reverb in that order. You cannot create your own configurations – that would detract from the unit's ease of use and go against its basic design philosophy.

Although not much can go wrong, if it does you can recall the presets.

Hard fax

The Zoom 9001 has 20 different effects. These are grouped into eight categories and named to suggest the sort of sounds and instruments which would particularly benefit from them:

Studio: Reverb, Echo, Chorus
Drums: Gate, Ambience
Keyboard: Strings, Organ, Solo
Piano: Acoustic Piano, Electric Piano
Acoustic Guitar: Steel Guitar, Gut Guitar
Bass: Bass, Slap Bass
Vocal: Vocal 1, Vocal 2, Harmony, Robot
Sound: Wave, Test Tone Oscillator

The 9001 can store 40 presets which are selected using two Bank and four Program buttons.

Only the Studio and Drum FX have a Direct Mix parameter, which allows you to turn off the direct or original sound which appears in the mix. All the other configurations will feed some of the direct signal back to the output. When using an FX unit in the send and return loop of a mixer, you will usually want to turn off the direct signal.

these are generally good for a processor at this price, one has to conclude there aren't enough of them.

The Leslie speaker simulation in the Organ effects is also impressive, and can be switched to slow or fast rotor speeds. Some of the Piano effects add a nice cutting edge to the sound, while the chorus and reverb of the Strings program could sweeten any pad.

I particularly liked the way all of the effects and their parameters were listed in the manual, and the way it showed the signal path through the various effects with the aid of schematic diagrams. This enables the user to see quite

clearly how their signals are being effected.

There are also diagrams to illustrate the principles associated with each of the parameters – including those found in reverb programs (level, direct, pre-delay, early reflection and reverb time), chorus, echo, gate reverb and comb filters – and additional listings of parameters for the 40 additional effects which you can program yourself.

What the manual doesn't give you are any detailed specs on the unit itself, so I can't quote a signal-to-noise ratio or a dynamic range at you. Subjectively, the unit is a touch noisy. Some effects (such as chorus) are worse than others, and even the Effect Off button doesn't mask the noise completely.

This shouldn't prevent you from using the unit in a recording, but you'll need to keep a check on the noise and familiarise yourself with the Direct Mix limitation (if you want to use it with a mixer).

Although a more up-market FX unit would almost certainly be more versatile, it will obviously cost more. But not necessarily that much more, so you need to work out what you want and how much you can bear to part with. The 9001 is certainly easier to program than any rackmounted FX unit, but it's not capable of the subtleties of many such units.

I suspect it will find a home with musos who play live, especially those who only need a handful of different effects throughout a set. ●

THE LAST WORD

Ease of use	Easy-peasy
Originality	Not much you haven't heard before
Value for money	Not bad
Star quality	Meretricious but not unloveable
Price	£249.95 inc VAT
More from	MCMXCIX • 9 Hatton Street • London • NW8 8PR • Tel: 071 723 7221 • Fax: 071 262 8215



KORG DISGUISE KIT FOR OTHER KEYBOARDS.

If you hanker after Korg-quality sound but can't afford to trade in your existing keyboard, the new Korg 05R/W could be the answer.

Basically, it's the heart of the 01/W workstation keyboard squeezed into a half-rack module. Plug it into your existing MIDI keyboard and it gives you 6Mb of high-quality samples, AI² synthesis, 100 user programmes, 100 combinations, 128 General MIDI programmes, stereo programmable digital effects, 8 drum kits and a serial interface which lets you connect to a PC or Macintosh for multimedia and sequencing work. In other words, it'll make just about any other keyboard sound like a Korg. Even better news, it'll cost you just £599.

And there's no disguising the value of that.

KORG

BREAKING SOUND BARRIERS

Ensoniq

CDR-1

sample CD-ROM



Photo: James Cumpsty

Put it in your CD player and it's useless. Put it in an Ensoniq ASR-10 or EPS-16 sampler and it might knock your socks off. A sockless Ian Masterson writes...

When it comes to feeding your sampler from a library of sounds, you can't beat a CD-ROM drive. Hard drives might be fast, but CD-ROMs operate like lightning and are much more reliable. Of course, you can't save your own data to this particular format, but with more and more sampler owners relying on sample CDs and third-party disks to form the mainstay of their sound collections, it seems entirely logical to produce a single disk that offers several thousand sounds in a purely read-only configuration.

Ensoniq are showing their commitment to supporting the ASR-10 and EPS-16 units by releasing the CDR-1, a CD-ROM literally brimming over with high-quality sounds. In fact, a quick glance through the booklet that accompanies the disc reveals just how many sounds Ensoniq are giving CDR-1 owners access to. Numbered from 1101 to 9705, each sample is formatted ready to load into one of the sampler's Instruments, and can be accessed immediately through a proprietary Macro-Dialling system. All you have to do is hold down the sampler's Load button, enter the number of the sound you want on the numeric keypad, and the CDR skips straight to the correct sound.

Sounds unlimited

You wanna hear some hot sounds? Well, try these on for size. If Ensoniq's in-house programmers are to be commended for one thing on this CD-ROM, then it has to be the section of string sounds. 'Orch strings 1' (1101), 'Epic strings' (1102) and 'Full strings' (1112) are some of the deepest, richest and most soulful bowed-type things yet to erupt from an Ensoniq. Similarly, while I could pass on some of the dodgier electric guitars (1411 'FX guitar 1' – eeeuch!), the assorted sections of world and traditional percussion are to die for. 3516 'Tabla' and 3415 'The shekere' are ones to listen out for.

Although I can't mention all the sounds on the CDR-1 that I liked, commendations have to be awarded to the assorted drum kits too, in particular 3120 'Jazz drums' (though I wish these guys would stop trying to emulate the sound of European dance 'kits' by simply ripping off a load of TR808 samples – they went out of fashion three years ago, lads). And while some of the pianos do need a little work in the multisampling department, there are a couple of superb Hammond impersonations, a gorgeous clanking Rhodes and one or two strong pipe organs. Then again, if it's rich, ambient pads and 'textures' (what a revolting phrase that is) you're after, you could do a lot worse than to employ any of the ten-or-so specially devoted sections presented here.

From there, it's simply a matter of selecting which Instrument you wish the sound to occupy, and confirming your selection.

For review purposes, I used a DAC RW4000II drive, which yielded excellent results. The whole process of loading a sample takes a matter of seconds.

Ensoniq have also supplied several banks of demo songs, for you to audition some of the sounds in context, and a section entitled 'Bonus Beats', containing a collection of individual drum and percussion sequences. Using the ASR-10's sequence functions you can arrange and compile these sequences into complete songs. Nifty.

But the last word, as usual, has to go to the quality of the sounds themselves. It's probably true to say that sound libraries produced by sampler manufacturers tend to be slightly 'conservative' in their selection and choice of sounds; after all, they have to cater for as broad a range of end-users as possible. However, the CDR-1 offers so many high quality, instantly usable sounds that any inherent conservatism becomes irrelevant; at the end of the day, the rich strings, dynamic percussion and superb effects (among others) make this CD-ROM an indispensable source of essential samples for any Ensoniq owner. ●

THE LAST WORD

Ease of use	The words 'log' and 'falling' spring to mind
Originality	Some high points
Value for money	Excellent
Star quality	Something for everyone
Price	£139.00 inc VAT
More from	Sound Technology plc ● 17 Letchworth point ● Amor Way ● Letchworth ● Herts SG6 1ND ● Tel: 0462 480000 ● Fax: 0462 480800



Pure Brilliance



NJD Electronics, 10 Ascot Industrial Estate,
Lenton Street, Sandiacre, Nottingham NG10 5DJ
United Kingdom
Tel: (0602) 394122 Fax: (0602) 490453

Now available
send for your
FREE 1994
full colour
catalogue.

T H E F U T U R E

S E R I E S

MUSIC PROCESSOR



SOUND GENERATION

PCM, Wavetables, Multiloop, Crossfade, Multiwave and Subtractive Synthesis
 6 MBytes Internal Sound ROM
 2 MBytes Internal Sound RAM
 6 x 18 BIT DACS
 2 DSP effects sections (Reverb effects + Modulation effects)
 32 Oscillators
 16 Multi-timbres, 16 layers, 16 splits (16 tracks)
 32 fully programmable Digital Filters
 2 Filters for each voice (5 types with Resonance: Low Pass, High Pass, Band Pass, Parametric Boost, Parametric Cut)
 Dynamic Stereo Panning

CONTROLLER

S3: 76 Keys (E-G)
 Polyphonic After Touch
 2 Wheels, 2 Foot controllers, 7 Buttons and 7 Sliders all completely programmable

MEMORY

Microprocessor: Motorola* MC68302 (16 MHz)
 6 MByte internal RAM
 Sounds Library (350 ROM + up to 2000 RAM)
 DSP Effects Library (64 + 64)
 100 Performances
 10 Songs
 Sound Patch Matrix (for DrumKit programming or special sound configurations)

EDITOR

Undo, Compare, and Clipboard features
 Graphic Display: 240 x 64 pixels with neon backlight
 Clock: Time and Date

SEQUENCER

Events: approximately 250,000
 Background Song loading
 Realtime, Overdub, Quantize, Realtime Delay, Microscope Editing
 Compatible with Standard MIDI file (Atari/IBM compatible)

DISK DRIVER

1.62 MBytes formatted
 Loads and Saves: PCM data, Sounds, Songs, Performances, DSP Effects
 Loads: Software Upgrades, User programs and new Software options
 Full Background operation

MIDI

32 independent MIDI channels
 2 MIDI In
 2 MIDI Thru
 2 MIDI Out
 MIDI Merge (Incoming MIDI data can be processed and/or modified)

AUDIO OUTPUTS

6 Audio outputs, configured as a stereo master pair plus 4 programmable separate outputs

NEW SAMPLE TRANSLATOR SOFTWARE

Optional Load and Edit samples from your favourite sampler or sample disk library direct into the S2 or S3

NEW TURBO KIT

500 ROM sounds, new exciting sound edit and sequencing functions and 32 note polyphony.



Distributed by:
 Key Audio Systems Ltd
 Unit C, 37 Robjohns Road, Chelmsford, Essex CM1 3AG
 Tel: 0245 344001 Fax: 0245 344002

*MOTOROLA is a trademark of MOTOROLA Inc.

Akai

DR4d

hard disk recorder

REVIEW



4-track direct-to-disk recording without need of a separate computer. Ian Masterson stands alone.

Photos: James Cumpsty

Getting a format accepted as the latest word in recording technology must be a nightmare for manufacturers. I mean, look what happened to DAT. The perfect digital consumer tape? I think not. But for recording studios and gig backing tapes, it proved to be just what the doctor ordered. The consumer battlefield then extended to take in Minidisc and DCC; while DCC still stands a small chance of being adopted as a new hi-fi format, studios and professional musicians have given it a resounding thumbs down. Such a tacky little format...

Little wonder then that the digital multitrack arena is currently being torn apart by a battle between a number of equally impressive, but incompatible, recording formats. 8-track digital tape? ADAT will do nicely. Or is that Tascam's Hi-8 format? Oh dear. Well, maybe I'll go for hard disk multitrack instead. After all, it may be a bugger to back up, but the editing features remain unsurpassed. But do I opt for something like Cubase Audio, which tacks digital audio onto an established MIDI sequencer, or a proprietary system of the excellent Soundscape variety? And which host computer should I use?

At this point you'd be forgiven for either deciding to take up stamp collecting to escape the whole nasty problem, or simply waving two fingers at digital and sticking to your pancakes of analogue tape. Alternatively, you could take a closer look at Akai's new DR4d hard disk recorder. The R&D bods at Akai are well aware of the problems of digital formats, and have decided to turn the whole thing on its head, asking one simple question: what do people actually want their digital multitrack to be?

The answer, it seems, is a machine that offers the ease of use and accessibility of analogue, the comprehensive editing of hard disk systems, and the simplicity of digital tape. And they want all this in a single box with an attractive price tag. Quite straightforward really. But then, the DR4d is a pretty straightforward machine.

Essentially a standalone 4-track digital system (that means no extra expense for a host computer), the DR4d operates in the style of a glorified analogue multitrack. It isn't a personal-studio-in-a-box, so you'll need a mixer with grouping and buss facilities to get the best out of this machine. But the unit does have both analogue (switchable for -10 or +4dB operation) and digital inputs and outputs, justifying its semi-pro tag. In true Akai style, a host of expansion ports are provided; one for MIDI, one for SCSI-B (used for backing up rather than direct recording), one for a second

set of digital I/Os, and one for a SMPTE board. Since you can sync the DR4d to a computer over MIDI or SMPTE, it seems strange that one of these 'options' isn't provided as standard; it would be much nicer if the DR4d could integrate seamlessly with your MIDI system from the start. Tsk, and indeed, tsk.

Although the DR4d is theoretically a standalone unit, the inclusion of a SCSI-A port indicates a possible need for hard disk expansion. And bearing in mind that Akai fit an internal drive of either 213 or 545Mb at the factory only at your request (and extra cost!), you may need to investigate adding extra megs sooner than you think. For example, a 240Mb drive offers approximately ten minutes of 4-channel recording at the maximum 48kHz sample rate (just like DAT, you can record at lower rates of 44.1kHz or 32kHz to increase the time if you prefer). To reach half an hour of recording, you'll need something like 650Mb. But there are quite a few tasty offers to be had on third party hard drives at the moment - the only restriction imposed is on the access time of the drive being used. MO drives are out - the DR4d needs an access time of 19ms or less to function correctly.

One of the DR4d's big selling points is its user-friendly front panel; plenty of big, clearly-labelled buttons and not too many fiddly multifunction parameters help speed things up considerably. The recording process is, as I said above, eerily reminiscent of an analogue machine; you select the input you wish to record from, the track you wish to record to, and off you go.

You'd probably expect a multitrack machine of this calibre to offer a host of editing and locating facilities, and the Akai doesn't disappoint. All location and editing is performed via the single LED-numeric display, which reveals time positions in a variety of formats. You can copy, move, erase or delete any section of a recording, or even insert blank space, quickly and effectively. And if you discover the final edit hasn't quite come out the way you intended, you can always undo it, courtesy of a dedicated life-saving button.

But obviously, any hard disk offers a finite recording time. So what happens when you've finished working on one song and wish to start on another? Where do you store precious data? Onto DAT, that's where - via the digital interfaces. Or onto a removable SCSI format device if you happen to have the SCSI-B board installed. You can even specify particular

sections of a song to be backed up; if you detest your performance in the verse, but love the chorus, this is the way to go about things. Then it's simply a matter of erasing the hard disk and starting afresh. Your previous work can be loaded back into the DR4d at any time.

As far as recording quality goes, the DR4d performs impeccably. No nasty digital 'glaze' so often associated with semi-pro formats is in evidence. As a basic digital recorder, the DR4d is faultless.

However, the editing side of things threw up one point of concern for me. Simply put, the single-line, simple numeric display takes a great deal of getting used to. Having for some time used Cubase Audio with its visual representation of song parts on a computer screen, using the DR4d's editing system was rather like returning to a twin-tub washing machine after using the latest Whirlpool Automatic. Not impossible, just...more 'involved'! Thankfully Akai are already working on computer software support for the DR4d that will ease editing headaches greatly. Then again, doesn't that defeat the object of a

Megabytes and minutes

A GUIDE TO CHOOSING HARD DISKS FOR THE DR4d

You'll have read in the main body of this review that the DR4d employs fast-access hard disks as its recording medium you can choose to have an internal disk fitted to your machine before it leaves the factory, you can rely entirely on external drives; or you can opt for a mixture of both, expanding your storage capacity as demand (and finances) permit. Akai have provided an extremely useful table in their manual (the one we've reproduced below), which allows you to calculate how much recording time you'll get from a certain amount of disk space, according to which sampling frequency you're recording at (32kHz, 44.1kHz or 48kHz). But do remember that you can't record any more than 24 hours worth of material in one stretch, no matter how many disks you use. Tsk, tsk.

Available minutes: Seconds (approx)

Hard disk size	32 kHz		44.1 kHz		48 kHz	
	4 channel	1 channel	4channel	1 channel	4 channel	1 channel
2Gb	132:50	531:20	96:23	385:33	88:34	354:18
1.2Gb	79:42	318:48	57:50	231:20	53:8	212:35
650Mb	43:10	172:41	31:19	125:18	28:47	115:8
330Mb	21:55	87:40	15:54	63:37	14:36	58:27
240Mb	15:56	63:46	11:34	46:16	10:37	42:31
128Mb	8:30	34:32	6:10	24:40	5:40	22:40
100Mb	6:38	26:34	4:49	19:16	4:25	17:42
88Mb	5:50	23:22	4:14	16:57	3:53	15:35
44Mb	2:55	11:41	2:07	8:28	1:56	7:47

Now you get the power of 32 voices
at a price you'd expect to pay for 16.

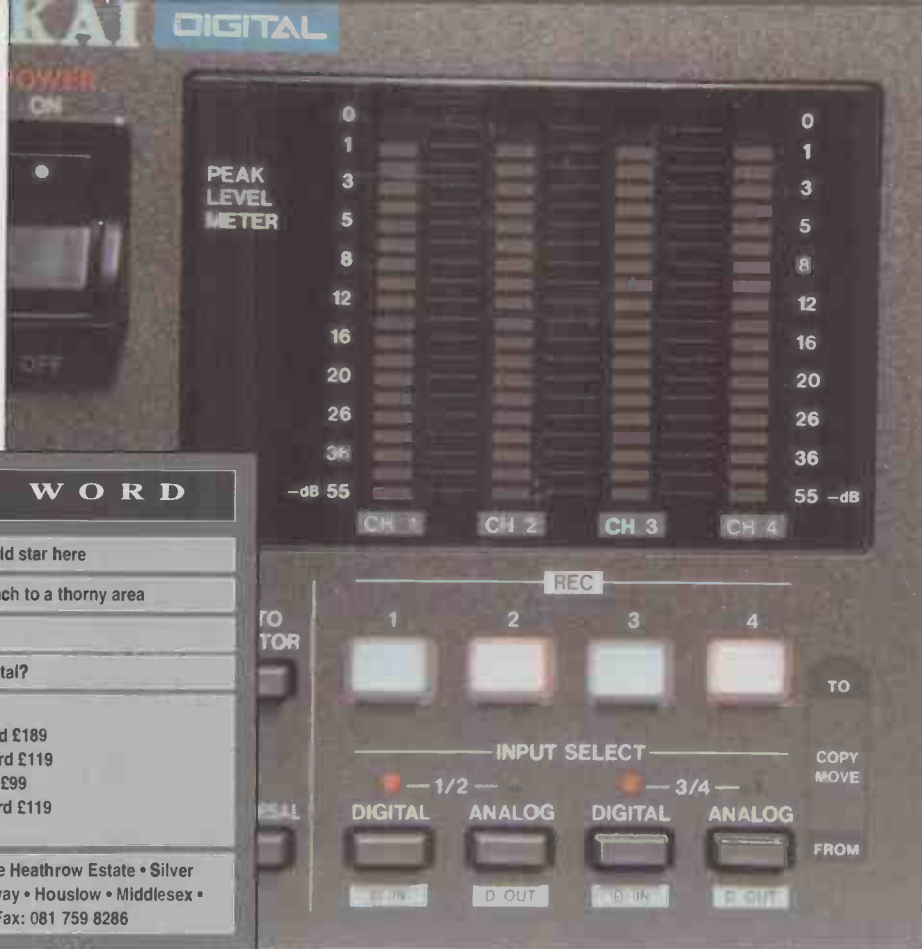
We listened.

And to take full advantage of these you'll find 528 of our very best sounds already loaded. To spur your creativity there are 200 up to date inspirational combinations, every one of which is a work of genius in its own right. Power keys let you change things round on the fly -



standalone system? I would have much preferred an LCD screen in the style of their S-Series samplers.

You, of course, may feel differently. There is a degree of subjectivity involved in these matters, but what is beyond dispute is that the DR4d is a well-designed, well-executed and professional-sounding machine; it is also extremely good value for money, and goes some way to solving the headaches of 'difficult' digital formats. Personally, all I want now is a DR4d with eight tracks. Anyone for the DR8d? ●



THE LAST WORD

- | | |
|-----------------|--|
| Ease of use | Full marks and a gold star here |
| Originality | A refreshing approach to a thorny area |
| Value for money | Better than most |
| Star quality | A new dawn for digital? |

Price

£1599 Inc VAT
 IB-110D digital board £189
 IB-112T SMPTE board £119
 IB-113M MIDI board £99
 IB-111S SCSI-B board £119
 (All prices inc VAT)

More from

Akai UK • Haslemere Heathrow Estate • Silver Jubilee Way • Parkway • Houslow • Middlesex •
 Tel: 081 897 6388 • Fax: 081 759 8286

So now it's your turn.

sounds as well as the internal 16 track sequencer. Oh yes, and not forgetting the DOS compatible disc drive that lets you transfer MIDI files (General MIDI too) directly to and from your computer. Have we hit the mark with the new Korg X3 Workstation? Just check out our free CD Demo and then you can be the judge.

CD includes eight music tracks plus a MAC compatible CD-ROM track full product presentation
 Copies available from KORG on 081 427 5377
 £2.00 is charged for post and packing.

KORG
 BREAKING SOUND BARRIERS



Pulsar

Universal Interface

MIDI lighting controller



"Light up the sky with Standard fireworks". Well, it scans better than "light up your gig with the Pulsar Universal Interface". But you can, according to Ian Masterson, transform your performance with this simple black box...

Photos: James Cumpsty

You have to smile at Pulsar's sense of understatement. I mean, take this Universal Interface thing. Here is a device that can literally take your stage act – be it at a pub, club, hall or stadium – and reinvent it. It'll help you create a lightshow that not only complements your music, but which picks it up, shakes it thoroughly and sends it spiralling out at your audience. And how do Pulsar package it? In a bright pink and green case with loads of flickering LEDs and a badge that reads 'Instant Orgasmic Lightshow'? No. They put it in a black box with no front panel controls, a few simple LEDs and a smattering of DIP switches hidden around the back. Honestly, some people have no imagination.

If you've ever had the briefest of encounters with lighting technology, you'll know that it operates in a world of its own. Music has the MIDI data protocol, lighting has DMX. And, er, PMX. And analogue 10-volts. And mains, for that matter. All quite straightforward in their own ways, but not exactly designed to be mixed. Which isn't great if you're one of the countless musicians or programmers looking to create a lightshow that compliments your music – or, for that matter, which is capable of being programmed on the same sequencer controlling your sounds. Wouldn't it be great if you could 'play' lighting information on a keyboard, record it into a computer, edit it, quantise it and save it on disk the same way you can with a MIDI song file?

A couple of companies on the MIDI circuit (pun intended) have thrown their hats into the ring with various systems allowing MIDI-to-mains interfacing. These units work perfectly at a basic level, but are limited, for example, by the number of lamps you can chain off their mains outputs. To deal with the more professional lighting control protocols, be it straight analogue 10-volts for linking to dimmer packs, or digital DMX for more advanced control, you need to produce a unit that handles lighting information as well as it handles MIDI. In other words, an interface that will take in MIDI, DMX or PMX (Pulsar's proprietary version of DMX) data and translate it into analogue control voltages for linking directly to dimmer and switching packs, which in turn deal with the mains side of things. Enter the Universal Interface.

The simple design of the unit is, of course, both intentional and praiseworthy. For the purposes of this review I used the Universal Interface to control a bank of eight standard stage lanterns from Cubase on an ST, via one of Pulsar's own small dimming packs. This simply involved hooking a MIDI lead from the ST to the Interface's MIDI In (Pulsar also provide a MIDI Thru for chaining to further units), and one of the analogue outputs on the Interface to the dimming pack. A set of digital inputs and outputs for DMX/PMX are also provided, should you wish to control the Interface over that protocol instead.

In common with most of Pulsar's control equipment, the Interface takes its power from the 10-volt supply rail provided over the analogue lines by a dimmer pack. One of the LEDs indicates that everything is healthy in this area, while a further two indicate whether MIDI or digital information is being decoded (the unit automatically recognises which). The rear panel DIP switches

are arranged in two banks; the first to select which of the 16 MIDI channels the Interface will respond to, and the second to select which groups of analogue channels over the six available outputs are to be controlled. For example, if you have six dimming packs connected, then you'll generally select all the channels to be controlled. There are also three further switches, the first of which runs a test sequence to ensure your dimmer packs are responding correctly. The remaining two allow you to select whether the brightness of your lamps is controlled by how hard you hit a key on your keyboard (MIDI velocity), and whether the lamps stay on as long as a key is depressed, or stay on until that key is pressed again (known as toggling).

Once everything is set up and ready to rock, you discover that playing a key on your MIDI keyboard causes the lamp 'connected' to that note (via the Interface) to – surprise, surprise – come on. From here on, what you do with your lighting rig is limited only by your imagination; you can do everything from programming simple chase sequences and flashes to complicated crossfades and animated displays. The analogue outputs can even be used to control strobes, multiple light effects, projectors and indeed anything else requiring mains and control feeds. Once you start exploring the options, you'll find it hard to leave your lighting rig alone.

And that about covers it. This is an invaluable unit for anyone wishing to put on a visual show of the more imaginative variety; with a whole bank of these, a stage of any size becomes your oyster. Add to this simplicity of operation and versatility, and you begin to realise that Pulsar have a lot to crow about with the Universal Interface. Not that they would, of course. But I will say this for them – if ever my stage rig gets shot down in a blaze of light, and my MIDI setup explodes in protest, this is one black box I'm taking with me when I abandon ship. ●

THE LAST WORD

Ease of use	No degrees in button-pushing required
Originality	A new approach to an old problem
Value for money	Considering the potential end results, very good
Star quality	Explosive
Price	£368 plus VAT
More from	Pulsar Light of Cambridge ● Henley Road ● Cambridge CB1 3EA ● Tel: 0223 66798 ● Fax: 0223 460708

LONDON MUSIC SHOW 93

The UK's largest
music show is
crammed with
high-tech...

27th & 28th November 10a.m. - 6p.m.

WEMBLEY CONFERENCE &
EXHIBITION CENTRE

Admission £6

Ticket hotline 0353 666336

...including the
MIDI VILLAGE

CAPITAL
95.8 FM

MT

W
WEMBLEY
CONFERENCE AND
EXHIBITION CENTRE

£1 off admission
with this voucher
One voucher per person

LONDON
MUSIC
SHOW
93

METRA
SOUND

UK distribution by Sounds O.K.,
10 Frimley Grove Gardens, Frimley,
Camberley, Surrey GU16 5JX

£1.00 P&P on all orders. Please
quote MT on orders. Cheques should
be made payable to Sounds O.K.
Please include Tel. No. on orders.
Callers welcome by appointment.
Tel: 0276 22946

Sample CDs



Drums and Percussion

Help yourself to a snare in a
multi-storey car park, drums in
a vault as well as orchestral
drums. 559 sounds on 99
tracks.....£32



String Orchestra

All the string instruments
played in at least 9 styles, from
a double bass to a high violin.
339 stereo digital sounds...£32



Sound Effects

523 sounds on 99 tracks.
Water, bells, thunder,
fireworks, transport, phones.
Ideal for commercials, DJs or
producers.....£32



Wind Instruments

316 sounds of the horn,
trumpet, flute, tuba, baritone,
oboe, clarinet, recorders, Cor
Anglais plus more.....£32

Studio Samples

SS01 Steinway Grand	SS32 MIDI Multi MIX	SS63 New Age
SS02 Jazz Piano	SS33 Marimba & Vibes	SS64 Beat Box
SS03 Super Bass	SS34 Hammond Sounds	SS65 Electric Guitar
SS04 Guitar & Vocals	SS35 MD-Trumpet	SS66 Distortion Guitar
SS05 Fender Rhodes	SS36 Voices	SS67 Dyno Rhodes
SS06 Brass Section	SS37 Full strings	SS68 Electric Bass
SS07 Saxophone	SS38 Ultimate Brass	SS69 Fretless Bass
SS08 Panflute & Shakuhachi	SS39 Classic Brass	SS70 Strings
SS09 Kurzweil Strings	SS40 Acoustic Guitar	SS71 Brass Section
SS10 SEX DISK "Tanja"	SS41 Electric Guitar	SS72 Yamaha SY77
SS11 Beat of J10P	SS42 Dues Mues Orchestra	SS73 Ensoniq VFX
SS12 Best of Synclavia	SS43 PPG	SS74 Korg T1
SS13 Best of PPG	SS44 Fairlight CM1 3	SS75 Waidorf Microwave
SS14 Best of Prophet VS	SS45 Roland D50	SS76 Carpet 1
SS15 Best of Matrix 12	SS46 Korg M1	SS77 Carpet 2
SS16 Synth Bass	SS47 K-pander	SS78 Turbo Synth Bass
SS17 DX7 Standards	SS48 Yamaha TX802	SS79 Drums
SS18 DX7 Special	SS49 Chroma	SS80 Electric Drums
SS19 Soft Synth 1	SS50 Synth Solo	SS81 House Music
SS20 Soft Synth 2	SS51 Monster Bases	SS82 Bebop Jazz
SS21 Drums of SP12	SS52 Synth Bass	SS83 African Folk
SS22 Linn 9000 drums	SS53 Acoustic Drums	SS84 Asian Folk
SS23 Drums of TR808	SS54 Electric Drums	SS85 Orms Library
SS24 Linn 9000 perc.	SS55 Acoustic perc.	SS86 Percussion
SS25 Percussion	SS56 Electric perc.	SS87 Special EFX
SS26 E-MU 2 perc.	SS57 Sports	SS88 Hammond
SS27 Soundtrack 1	SS58 Office	SS89 Imperial Grand Piano
SS28 Soundtrack 2	SS59 Video	SS90 Minneapolis
SS29 Special EFX1	SS60 Human	SS91 Roland D70
SS30 Special EFX 2	SS61 Ethnic	SS92 Korg Wavestation
SS31 Special EFX 3	SS62 Electro	

Disks Available @ £9.00 each for -

Disks 1-32: Roland S50, S330, W30, S770, S550 - Akai S900, S1000, S1100 - Korg DSS1

Disks 33-64: Roland S50, S330, S550, W30, S770 - Akai S900, S1000, S1100 - Yamaha TX-16W - Hohner ADS

Disks 65-92: Roland S50, S330, S550, W30, S770 - Akai S900, S1000, S1100 - Ensoniq EPS, EPS 16+ - E-MU Emax 11 - Atari Avalon - Kurzweil K2000 (samples only)

All samples professionally digitally recorded and looped (some on sound designer) ensuring digital quality from source to your sampling system. Customers worldwide prove that by coming back for more. Demo tapes available. Ring today.

New Studiosamples 4

Studio samples library 4 is a new library of sample disks for the Akai S1000 and Ensoniq EPS16+. Arranged in seven sets.

- Set 1 General MIDI drums and basses (rock, pop, jazz, funk & house).
- Set 2 AFRO percussion, grooves and sounds by world famous 'AIO'.
- Set 3 Jingles. Special effects with performance.
- Set 4 Film score. Synth mix, special EFX with atmosphere.
- Set 5 Licks and breaks. Guitar - bass - brass - orchestra breaks.
- Set 6 House beats. Loops with drums, percussion, bass + TB303.
- Set 7 Techno. A special set for the Techno musician.

£45 per set. Library 4 sets normally contains 4-7 disks.

THE BEST SOUNDCARDS FROM EUROPE

ROM RAM DISK

Korg M1/M1r/T1,2,3.....6 cards + GM.....£46.....£65
Korg T 1,2,3.....1 card/disk.....£46.....£65.....£39
Korg M3r.....3 cards.....£46.....£65
Korg Wavestations.....2 cards.....£46.....£65
Korg 01W/01W FD.....1 card/disk +GM.....£69.....£39
Roland D50/D550.....3 cards.....£46.....£65
Roland D70.....1 card.....£46.....£65
Roland JD800.....2 cards.....£46.....£65
Roland JV80.....1 card.....£46.....£65
DX7 Mk2/TX802 1024 sounds on 1 disk.....£39
SY22/TG33.....2 cards.....£65
SY55/TG55.....1 card.....£65.....£39
SY77/TG77/SY99.....4 cards/disk.....£65.....£39
Ensoniq VFX SD1.....2 cards.....£46.....£65
Ensoniq SQ1/SQ2.....1 card + GM.....£65
Kawal K1.....1 card.....£65
Kawal K4.....1 card.....£65
Gem S2/S3 100 sounds 10 performances on disk.....£45

Most sound cards are available on Atari disk and Super Librarian disk at £28 each... Please phone. Prices are for one card or disk.

SECONDHAND

Roland D50, good condition.....£495
Korg DSS1, excellent sampler.....£475
Korg T1, 88 note mega synth.....£1975
Wanted...JD800...01Wrd-ProX...SH101

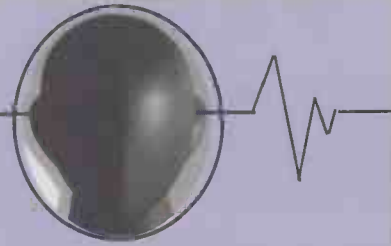
SOFTWARE

- *Super Librarian (Mac, ST, IBM, PC, Pc com).
- A universal patch librarian £92. Free demo disk available.
- *Korg Manager for M1/M1r/M1ex/M3r/T123/01W £69
- *Technics KN800/1000 song files set 1, 2 + 3 £39 each
- *Mega style card for Roland E70/35/RA90 £179

CALL US NOW ON
0202 395135
EXT. 125

EDDIE MOORS MUSIC LTD
THE SOUND INVESTMENT

679 CHRISTCHURCH ROAD
BOURNEMOUTH BH7 6AE
THE LARGEST MUSIC STORE IN THE SOUTH



KAWAI MEGA SYNTH
Call For Details

Kawai XS-1

94 Sounds. Four Part Multi-timbral + Drums.
Digital and Analogue Type Waveforms. **£189**



KAWAI PH50 SYNTH
Last Available Stocks **£129**



S1100

S1100 + S1100 EX MEGA DEAL LIMITED STOCKS AT £2999
Professional Features Include 32 Voice Polyphony. 32 Individual Outputs. SCSI, SMPTE Interface. 4 Meg Ram (Expandable To 64 Meg) Internal DSP. Time Stretch & Compression. Direct To Disc Option



SONY.
Hard Drives. Removables. Opticals. **From £399**

S01.S1000.S28000.S3000
S3200.CD3000.DR4D.
BEST AKAI PRICES!!

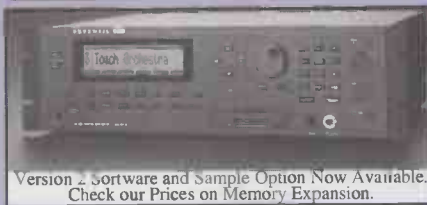
AKAI

LOWEST PRICES



KURZWEIL

Music Systems



Version 2. Software and Sample Option Now Available. Check our Prices on Memory Expansion.

STUDIOMASTER DIAMOND 16-2 £369



CHECK OUR PRICES!!

KORG O1/W £1099

FATAR

Low Cost High Performance Master Keyboards. Full Range In Stock.

YAMAHA TONE GENERATOR TG500

NEW LOW PRICE.

SAVE £££ **KORG WAVESTATION**



Triple Tier Aluminium Stands **£99**

KORG 05RW IN STOCK.



SPIRITO FOLIO

New Folio SI available Now.

Full Range Available Call For A Quote.

New Folio 4 Now In Stock.

CALL NOW SAVE MONEY

JD-800
LOWEST PRICE EVER!!



JV



Down In Price!!!

AX-1A30



BEST EVER DEALS!!!

NEW AND USED EQUIPMENT

Yamaha SY55	£499	Korg O1WFD	£1299	Kawai M8000	£499
Yamaha QX5FD	£299	Korg M1EX	£899	Zoom 9120	£299
Yamaha PF85	£799	Kawai K3	£399	Zoom 9001	£189
Yamaha QY10	£179	Diamond 8-2	£239	Fostex 812 Mixer	£799
Tascam 05HS	£299	Kawai Q80	£325	Tascam 05 HS	£299
Roland JD800	£1249	Roland A30	£299	Kawai Spectra	£399
Roland W30	£899	Roland MC300	£325	Ensoniq SQR	£299
Roland TR707	£129	Korg O1W Pro	£1575	C-LAB Notator	£225
Roland SH101	£129	Alesis MMT8	£179	Proussion	£349
Tascam 38	£1199	Yamaha QX5	£149	Proteus I	£399
Tascam 32	£749	Yamaha QX 21	£119	Roland D110	£199
Korg M1	£799	Teac DAP 20	£699	Roland JX1	£269
Allen&Heath GS3	£1889	Yamaha TX 81Z	£175	Casio DAR100	£339

MANY MORE ITEMS IN STOCK

12" HI RES MONITORS FOR ATARI 1040 £149.

MAIL ORDER SPECIALISTS

Digitech Vocalist II
Vocal Harmony Processor

ALL PRICES SLASHED
RP1. VHM5. DSP256. DSP16. GSP21

EFFECTS

Alesis Quadverb + £299
Alesis Quadra verb GT £359
ART Multiverb LTX £189
ART Multiverb SGXLT £199
ART Multiverb Alpha 2 £299
BOSS SE70 In Stock POA
ART SGX 2000 EX £599
Yamaha SPX990 POA
Roland SDE330
NOW IN STOCK.

Lexicon

LXP15 LXP1 PCM70 ALEX. Best Deals

ATARI ST

Falcon in Stock Check Our Prices !!!



1040 ste + High Res Monitor £399
12" Monitors £79



ASR10. T10
SQ1+
CHECK OUR PRICES



EMAGIC

NOTATOR £269. CREATOR £195
CUBASE V3.1 £279. CUBASE LITE £79

Steinberg

ACCESS. VISA. CREDIT FACILITIES. FAST EFFICIENT SERVICE. OVERNIGHT DELIVERY.

ORLA



88 note Fully Weighted GM Control Keyboard. The C80 Retails At £1199. We Have A Limited Quantity Available At £899

COMMANDER



DIGITAL MIDI SEQUENCER
Q-55

RRP £409
NOW £299

Tracks.
0,000 Note Mem.
SMF Compatible.
3.5" Disc Drive.



SO1 MIDI DIGITAL SAMPLER

INCLUDES FREE SAMPLE PACK. CALL FOR DETAILS



Q-80

32000 NOTES.
32 MIDI CHANNELS.
10 SONGS.
320 TRACKS.
SMF COMPATIBLE.
MIDITAPE SYNC.
3.5 DISC DRIVE.

RRP £549
£399

KAWAI
BEST VALUE EVER!!!



Roland S750

Our Price Includes Free Library. We Have RAS750 Expansion Boards Available From Stock.

JV-1000
MUSIC PRODUCTION SYSTEM
VE-GS1 EXPANSION BOARD
NOW AVAILABLE
CHECK OUR PACKAGE PRICES!!!

01/W pro
MUSIC WORKSTATION
Limited Stock at £1699

QUADRAVERB GT LAST STOCKS £359

pf85
FULL SIZE 88 NOTE YAMAHA DIGITAL PIANO.
SUPERB VALUE £899
Limited Stocks
Original RRP £1299

SYNTHESIZER MODULE
GMega
AMAZING FEATURES
ONLY £449

QUAD + STILL
£299

DJ-70 SAMPLING WORKSTATION **DOWN IN PRICE!!**
Roland DJ-70



YAMAHA
MUSIC SYNTHESIZER
SY99

MX16 EXCLUSIVE

16 CHANNEL STEREO MIXER
MX-16
2 Band EQ.
3 Aux Sends
3 Stereo Returns
KAWAI
Original RRP £509
Limited Stocks
£369
DNR System Reduces Background Noise Giving Extremely Quiet Performance.

R8 MKII. RY10. RY30. DR660. RM50. D4. BEST EVER DEALS!!!
SR-16

DAT
Digital Audio Tape
SONY DATS FROM UNDER £400
TCD-D7. DTC690. DTC670.
ALSO TEAC DAP20. DA30. SAVE £££s

MANY EXCLUSIVE DEALS!!!

THE ULTIMATE.
AWM2 + AFM & RCM Synthesis.
16 Track Sequencer. 63 Effects.
16 Part Multi timbral + Drums.
We Have Obtained a Limited Quantity of SY99 at an Unrepeatable Price. Call Now!!

JW-50
MUSIC WORKSTATION
BEST UK DEAL!!!

MDK 61 Motherkeyboard Exclusive Offer £225
61 Keys. Touch Responsive. Pitch Bend. Assignable Modulation Wheel. Programmable Multi Patch Memories. Pedal Function.
PACKAGES. MDK61+XS1 £379. MDK61+SC155 £695.

SC155
SOUND CANVAS
£499
SC-155
Sound Canvas
317 Sounds. 9 Drum Kits. Digital Effects.
16 Part Multitimbral. 24 Voice Poly.

VINTAGE KEYS
CLASSIC TUBES REDESIGNED
Lowest Prices On All EMU.

beyerdynamic
AKG
BEST PRICES ON ALL MICS.

SHURE
SM58 £99
SM57 £89

SRV-330
DIMENSIONAL SPACE REVERB
RSS Technology At An Incredibly Low Price!!
Now In Stock

FULL RANGE AVAILABLE CALL US FOR A QUOTE
SOUNDTRACS
CHECK OUR ADAT PACKAGES.

Fostex
DCM100 MIXTAB PACKAGE
£379
R8+812 BEST EVER DEAL
Call Now
Model 280 New Low Price!!

GS3V
ALL FORMATS AVAILABLE
ALLEN & HEATH
CALL US BEFORE YOU BUY!!!

FRIENDLY SERVICE

APHEX SYSTEMS

ZOOM
9120. 9001. 9002. 9000S. 9200.
9120 Mega Deal £299

Studiomaster
£949
Series 5 16-8-2 Exclusive

ACCESS. VISA. CREDIT FACILITIES. FAST EFFICIENT SERVICE. OVERNIGHT DELIVERY.

Korg

05R/W

General MIDI module

When he flies, Ian Masterson likes to sit near the black box, because it always survives. But will this black box from Korg survive Ian Masterson?



Photo: James Cumpsty

Ten of the best from each bank

Bank A	Bank G (General MIDI)
07 The Strings	01 Piano
26 Zap Bass	07 Harpsichord
31 Gospel Organ	12 Vibes
47 Analogue Pad	19 BX-3 Organ
49 Orch Percussion	39 Synth Bass 1
50 Dream World	41 Violin
61 Full Pipes	48 Timpani
76 House Bass	50 Analog Pad
77 Ambi Voice	53 Choir
89 50s SciFi	90 Warm Pad

in a combination and not to others – so not all your instruments are swamped with the gated reverb you use on your drum kit.

The 05 features 100 Combinations and 236 individual Programs, the first 100 being allocated to Bank A for a more traditional arrangement of sounds, and then 136 to Bank G for the General MIDI protocol. The factory presets supplied in both banks are extremely impressive; if you are familiar with Korg's AI² system, then you'll immediately notice that nothing has been spared here. Of course, as with all modern digital synths, the Bank A sounds tend to carry quite a few of the 'look what I can do with all these waveforms' type of sounds (particularly all those huge, sweeping D50-style evolving washes that

If it ain't broke, don't fix it. Synthesiser manufacturers seem to have recently adopted the Stock, Aitken and Waterman philosophy of refusing to change an apparently successful formula; if the same combination of ingredients seems to consistently win favour with Joe Public, then why waste time and money finding an alternative? All very well if the recipe really is strong enough to ensure continued attraction, but not so hot when fashions, as they are inclined to do, change overnight. And what about innovation, progress, discovery and development? Sticking to your guns come what may doesn't exactly open up new horizons.

This multiplicity of metaphors is intended to convey my frustration with the major synth manufacturers releasing hordes of units all based around the same synthesis technology - and, even worse, preset sounds. Until recently, General MIDI (a supposedly refreshing set of industry 'standards') has seemed like a convenient excuse for the heavyweights to clone sounds from their existing models - and even each other's - and release them in assorted, but essentially similar, packages. Same sounds, different boxes.

Korg have taken a while to enter the GM fray, and the 05R/W module, on first inspection, appears to be a tentative rearrangement of the technology employed in the rest of their successful O-series synths. Add a dedicated internal Mac/PC interface (so you don't have to splash out on a MIDI box for your computer should you want to get into desktop synthesis), and bundle the whole lot in a half-rack module with stereo outputs, and you pretty much have it. Or do you? After spending a while with this particularly cute Korg, it seems my initial scathing comments about the cloning of GM are a little hasty. The 05R/W proves that GM modules can have truly creative possibilities - provided they are designed with a little imagination.

I won't bore you with yet another account of Korg's AI² synthesis system - if you desire further information on the delights of having twice the synthesis power of an M1 in each individual program, refer back to M7's reviews of the 01/W, 03R/W *et al*. Suffice to say that the 05R/W features the full welly of its bigger brothers; the only 'cutbacks' concern the lack of individual outputs. Some may feel that routing all eight parts of the multitimbral section through a pair of stereo outputs is limiting; it depends on how much external control you demand in a mix. However, you can at least assign effects to certain programs

are absolutely useless in a mix because they take up so much space!), but the box above lists only a few of the real gems that make me unreservedly recommend the 05R/W. Mind you, the presets tend to lose their importance when you consider what you yourself could program using this mode of synthesis...

However, I will confess to being truly surprised that the GM set of sounds amounted to much more than an afterthought. These presets are equally excellent, and some (such as the pianos) outperform their equivalents in Bank A. Korg really have paid a great deal of attention to making the GM side of things shine; and their efforts more than pay off.

At the end of the day, if you buy an 05R/W, you're getting the full processing power of the O-series instruments, a built-in computer interface, a bonus set of GM-configured sounds and a half-rack unit with one hell of a lot of charisma, not to mention potential. This is no token, or even 'toy', GM unit; for one thing, it has given this reviewer faith in a manufacturer's ability to do something different, even when presented with roughly the same ingredients. The 05R/W isn't particularly new or exciting, but it is an excitingly new way of looking at an existing formula. ●

THE LAST WORD	
Ease of use	Ergonomically sound
Originality	Concept 0 Sounds 7
Value for money	Fair to middling
Star quality	It's a box
Price	£599.00 inc VAT
More from	Korg UK ● 8-9 The Crystal Centre ● Elmgrove Road ● Harrow ● Middlesex ● HA1 2YP ● Tel: 081 427 3397 ● Fax: 081 861 3595

INTEREST FREE ■ MAIL ORDER SPECIALS ■ FREE DELIVERY

Yamaha Hi-tech

SPX990	£750	Dep £150	10 x £60
SY85	£1475	Dep £275	12 x £100
SY35	£675	Dep £75	10 x £60
TG500	£1075	Dep £175	10 x £90
TG 100	£375	Dep £43	6 x £47
MDF2	£349	Dep £49	6 x £50
QY10	£425	Dep £65	6 x £60
QY20	£250	Dep £40	6 x £35
RY30	£480	Dep £60	6 x £70
RY10	£259	Dep £49	6 x £35
RM50	£635	Dep £85	10 x £55
MT120	£429	Dep £79	10 x £35
PFP100	£1750	Dep £250	12 x £125
PF85	£975	Dep £175	10 x £80
MT4X	£1175	Dep £175	10 x £100

0% Interest Free

Ex-demo And Used Bargains

Yamaha TG55	£450
Teisco mono synth	£100
Roland D110	£275
Yamaha DX21	£195
Roland JX8P	£425
Yamaha RY30	£325
Cheetah MQ8 sequencer	£125
Yamaha GY20	£250

Mackie Mixers

CR1604	£875	dep £275	10 x £60
1202	£345	dep £75	6 x £45

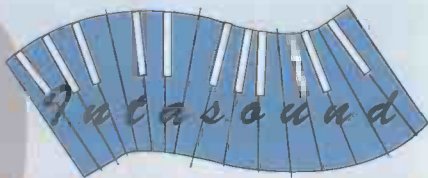
Amazing Gem Workstations

S2	£1675	dep £475	12 x £100
S3	£1875	dep £675	12 x £100

Akai Samplers

SO1	£775	dep £175	6 x £100
-----	------	----------	----------

You've tried the rest, now call the best!
What are you waiting for? Try us!!



OPEN 7 DAYS A WEEK

Sundays 10-5 pm

70 WARBOROUGH ROAD, LEICESTER LE3 0BB

0533 545456

Korg Hi-Tech

01/W FD	£1695	Dep £475	12 x £100
X3	£1375	Dep £175	12 x £100
01W Pro	£2650	Dep £250	24 x £100
I3	£2199	Dep £399	18 x £100
WSSR	£1075	Dep £175	10 x £90
O5RW	£575	Dep £75	10 x £50

NEW

The amazing new Yamaha QR10 £269

NEW

The amazing Technics KN2000

£1990.....Dep £550.....18 x £80

WOW!

Ex-demo And Used Bargains

Akai EX90R reverb	£189
Yamaha R100 reverb	£150
Yamaha FB01 FM expander	£175
Yamaha RX7 drum machines	£225
Yamaha EMT1 exp	£125
Yamaha EMT10 exp	£150
Yamaha EMQ1 seq	£150
Kawai PHM exp	£225
E-MU Proformance 1	£250
Fender Rhodes Stage piano	£150
Technics AX7	£475
Akai ME25S note splitter	£75
Yamaha TX7 module	£150

KORG DEMONSTRATION EVENING - THURSDAY 28TH OCTOBER

Come and see the latest range of Korg products!! Including the X3 and I3 workstations.

THE VENUE: The Wigston Stage Hotel, Leicester Road, Wigston, Leicester.

Call for more details and to reserve a place!!

Special offers on the night!!

MAIL ORDER ★ EXPORT WELCOME ★ FREE DEMO DISKS
LOTS OF SOFTWARE ALWAYS ON DEMO
PACKAGE DEALS A SPECIALITY

PC Digital Audio

The digital audio revolution is happening now!

All you need is the right soundcard and software and you can create your own multitrack digital recording studio inside your PC for less than £300.00. Call for our free digital audio update pack and details of some great new products

Here are some examples:

Soundblaster Pro 16 - superb sampling quality and the best bundled software for the price£199.99
Cakewalk Pro Windows Version 2.0 - Now featuring bank select, loop records, score print and many other functions that will keep this program at the top of the best seller list for a long time to come. Integrate samples into your MIDI sequences with this superb product.....£POA
Logitech Soundman 16 - This sampling

card is not only one of the best sounding of them all but is also very affordable and hard to beat£169.00
Master Trax Pro - Amazing multimedia software now available for the PC at only£249.00
Turtle Beach Multisound - Without doubt the best sampling card on the market.....£POA
Digital Soup Sound Professional - 16-track recording editing mixing software.....£89.00
Wave For Windows - An awe inspiring package that can record, edit, add stunning effects and mixdown sample files in many formats.....£119.00
Sound Impressions - Ideal sample recorder for the multimedia minded.....£99.00
There are many more products available so call us and we can advise you on the best setup for your requirements.

PC MIDI MUSIC SPECIALISTS PC MUSIC SOFTWARE

PC

CUBASE V.2.5	CALL FOR DETAILS
CAKEWALK PRO WINDOWS (FANTASTIC)	BEST PRICE
CUBASE WINDOWS	NEW LOW PRICE
CADENZA FOR WINDOWS	POA
MASTER TRAX PRO	£249.00
SEQWIN + SEQWIN V20	POA
QUICKSCORE DELUXE DOS OR WINDOWS	POA
MUSIC TIME	£199.00
ENCORE	POA
BALLARD DOS OR WINDOWS	CALL FOR DETAILS
FINALE	POA
CUBASE SCORE PC	POA
CUBASE WINDOWS TO CUBASE SCORE UPGRADES	BEST DEALS
MUSICATOR GS (WIN)	POA
CADENZA (DOS)	£169.00
SONGWRIT	£119.00
SUPER JAM (WIN)	BEST PRICES
BAND IN A BOX PC	£79.00
THE PIANIST (OVER 200 CLASSICAL MIDI FILES)	POA

Millennium

Music

Software

CALL FOR A QUOTE ON A PC BUILT TO YOUR SPECIFICATION. WE CAN DO A 386 MACHINE FOR £699 OR LESS

TEL : 0602 241924
FAX :

1 Hurts Yard, Nottingham NG1 6JD

If you are looking for a computer music setup then contact us. We have many years experience of the music industry and are able to give up-to-date, unbiased info on all aspects of music technology.

HERE'S JUST A SELECTION OF THE PRODUCTS WE STOCK

ATARI

EMAGIC NOTATOR/NOTATOR	LOGIC/CREATOR	BEST PRICES
CUBASE	POA	
GAJITS BREAKTHRU	POA	
BAND IN A BOX	POA	
FEELING PARTNER	£149.00	
REPLAY 16 (16 BIT ST. SAMPLER)	POA	
D20 SYSTEMS 4 TRACK	POA	
DIGITALRECORDER	£299	
020 EDIT	POA	
NOTATOR LOGIC FOR ATARI NOW AVAILABLE	CALL FOR BEST PRICES	

AMIGA

SEQUENCER ONE PLUS	POA
DR T'S KCS	POA
SUPER JAM	POA
RAVE	£49.95
MUSIC X	£29.95
STEREOMASTER	£39.95
CLARITY 16	POA
BAR & PIPES PRO	POA
OVERTURE	POA
GET MIDI ON YOUR AMIGA FOR AS LITTLE AS £60.00 INCLUDING MIDI INTERFACE, SOFTWARE & MIDI LEADS	

HARDWARE

STUDIO QUALITY PHONIC MIXERS	FROM £119.00
ROLAND SCC1	NEW LOW PRICE
CMS 401 MIDI INTERFACE	BEST PRICE
ROLAND PC200 GS	POA
MUSIC QUEST M0X32M (INC. POWER TRAX GM SEQ)	POA
MUSIC QUEST PC MIDI CARD	POA
SOUNDBLASTER 16 ASP	POA
GRAVIS ULTRASOUND	POA
PORTMAN PARALLEL INTERFACE	£119.00
MIDIATOR SERIAL INTERFACE	£119.00
MIDIATOR AS ABOVE WITH 4 OUTS	£149.00
FATAR MIDI KEYBOARDS FROM	£119.00
NEW - PC MIDI INTERFACE FROM MOTU	
MT+ EXPRESS - 6 MIDI INS. 6 OUTS + SMPTE	LOW PRICE
NOW IN STOCK. (NO MAIL ORDER SURCHARGE!)	

MC

Music Control

Cold, Wet Autumn Prices

Alesis Adat

Alesis 8 Track Digital System
Come and see the amazingly easy to use Alesis Adat system running in our demo suite. Fast becoming the industry standard, this easily expandable digital recording system is available with Digital interface and the BRC, big remote control.

Akai DR4d

Affordable direct to disk recording:
Akai's new direct to disk recording system. Four tracks of random access sound storage to internal hard disk. Complete with external SCSI port for longer sound storage. These machines can be linked together for even more tracks!

Spirit Folio SI and Folio 4

The latest additions to the Spirit mixing range:
Spirit Folio SI (18:2)
Eight stereo inputs - hence the name, two mono, left and right masters. Desk top and rack mount versions available.
Spirit Folio 4 (20:4:2)
Twelve mono inputs, four stereo inputs with four subgroups.

Music Control - On Demo - new & secondhand - call for prices

Akai.....	CD3000
Akai.....	DR4d
Akai.....	S01
Akai.....	S2800
Akai.....	S3000
Akai.....	S3200
Akai.....	VX90
Alesis.....	3630
Alesis.....	Adat
Alesis.....	D4
Alesis.....	Datadisk SQ
Alesis.....	Quadraverb+
Alesis.....	QuadraverbGT
Alesis.....	SR16
BBE.....	Sonic Maximiser
Casio.....	FZ1
Casio.....	FZ10M
Digital.....	MX28S
EMS.....	Pitch to Voltage Converter
EMS.....	DK1 Keyboard
EMS.....	Synthi 'A'
Emu.....	Emax HDSE
Emu.....	Emax II KB
Emu.....	EIIIIXP

Emu.....	SoundEngine
Emu.....	Vintage
Emu.....	Emulator 1
Ensoniq.....	Mirage
Fostex.....	812
Hammond.....	C3 + Leslie
Hohner.....	VZ10M
Kawai.....	K1R
Korg.....	01RW
Korg.....	01W FD
Korg.....	Lambda
Korg.....	M3R
Korg.....	Micro Preset
Korg.....	MS50
Korg.....	SQ10
Korg.....	X3
Kurzweil.....	KMS250E
Lexicon.....	Alex
Lexicon.....	LXP5
Lexicon.....	MRC
Mackie.....	1202
Mackie.....	1604
Octave.....	Cat
Roland.....	CR78

Roland.....	CR8000
Roland.....	JSQ60
Roland.....	MKS70
Roland.....	MKS80
Roland.....	R8
Roland.....	SBX80
Roland.....	SH1000
Roland.....	SH101
Roland.....	SH2000
Roland.....	U110
Roland.....	W30
Sequential.....	Drumtraks
Sequential.....	Prophet V
Soundcraft.....	Folio 12.2
Studiomaster.....	1202 Gold
Tascam.....	MM1
Tascam.....	MM200
Tascam.....	Porta 7
Yamaha.....	R1000
Yamaha.....	CS01
Yamaha.....	DX7
Yamaha.....	DX7S
Yamaha.....	KX1
Zimmer.....	Rack

Music Control - Used Specials

Chase	Bit01R	£449
Emulator	Emulator III + Lib	£2,999
Ensoniq	SD1	£1,399
Ensoniq	SQ1+	£739
Ensoniq	SQ2	£1,249
Ensoniq	EPS	£869
Ensoniq	EPS16+	£1,299

Ensoniq	VFX SD	£849
Korg	MonoPoly	£299
Moog	Liberation	£599
Moog	Prodigy	£299
Oberheim	Matrix 12	£3,299
Roland	D550	£599
Roland	Jupiter 4	£429

Roland	Jupiter 8	£899
Roland	MC202	£249
Roland	System 100	£call
Roland	System 100M	£call
Yamaha	SY22	£399
Yamaha	SY55	£469
Yamaha	DX7S	£399

Music Control - The Company.

Music Control

Export enquiries welcome. We accept Visa and Access.
Credit facilities now available on all equipment - subject to status. We also purchase equipment.

Overnight courier - £15 on most items.

Recent clients include:- The Beloved, Bizarre Inc, Definition of Sound, INXS, Mike Oldfield, Opus III, Nexus 21, The Science of Miracles, The Shamen.

New

We are agents for:
Akai, AKG, Alesis, Art, Atari, Beyer, BBE, Carver, C-Audio, Cheetah, DAC, DBX, Denon, Digitech, DOD, Emagic, E-mu Systems, Fostex, Gem, Hammond, Hosa, Hughes and Ketner, JBL, JHS, J.L. Cooper, Korg, Kurzweil, L.A. Audio, Lexicon, Mackie, Microtech Geffel, MOTU, Neumann, Oberheim, Opcode, Orban, Soundcraft, Steinberg, Studiomaster, T.C., Tascam, That's Tape, TOA, Tubetech, Urei, Voce and Zoom.

Secondhand

We specialise in supplying secondhand equipment to groups, studios and hire companies throughout Europe. We also locate equipment for many shops and even some manufacturers!

All equipment is serviced before delivery and has a one month guarantee.

We can help you create the balance of analogue and digital that is vital in current recording techniques.

Yesterday's Technology Tomorrow!

MUSIC Control 0270-883779

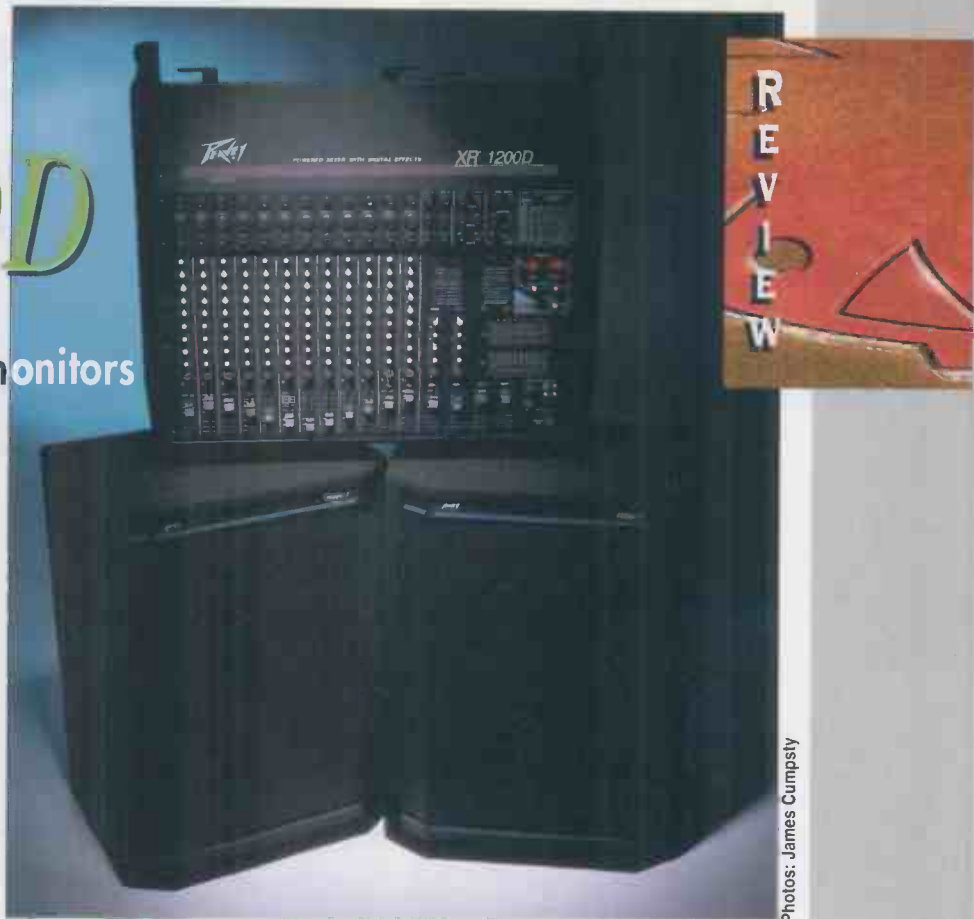
First Floor, Chapel Mews, 68 Crewe Road, Alsager, Stoke-on-Trent, Staffs, ST7 2HA.

Peavey

XR 1200D

powered mixer + HiSys 2 monitors

Nicholas Rowland examines a budget PA system that could put the front-of-house sound back under your control.



Photos: James Cumpsty

No serious live act these days can afford to be without total control of their own stage sound. It's a lesson often learned through experience, but when your band has sweated blood and cried tears over the creation of that unique melange of grunge rock and jazz sampling sensibility, the last thing you want is for it all to be buggered up by someone on the mixing desk who doesn't know your act... or worse still, doesn't care.

The first approach to this problem is to nobble the resident sound engineers with excessive alcohol and quickly replace them with your own crew – risky and expensive. The second is to rush out and buy one of a growing number of mixer/power amp combinations designed for small scale gigging – definitely not as risky, and certainly getting less expensive as more and more manufacturers begin to compete for a slice of the pie.

Among them we have Peavey Electronics Corp of Meriden, Mass, with their 8-, 12- and 16- channel versions of a stereo mixer/amp combination which has the added luxury of an in-built 16-bit digital FX module.

Under scrutiny here is the 12-channel version (codename XR 1200D) which delivers 300 watts per side into 4 ohms. (As indeed does the 16-channel version. The 8-channel is only rated at 200 watts). Of conventional design the mixer offers no real surprises in terms of layout and design, except perhaps the fact that it can generate two separate monitor mixes.

The first thing you notice on switching the desk on is how noisy it is – not in terms of hissy signal paths, you understand, but in terms of the cooling fans. It sounds as though the only thing preventing it from taking off is confirmation from air traffic control! Of course, an efficient cooling system is necessary in the confined space of the casing, and the sound wouldn't exactly be intrusive during a gig. However, I'd think twice about giving the XR1200D a daytime job in my home studio. All mixer channels are equipped with 1/4 inch jacks and XLRs and can swallow mic or line inputs no problem. Phantom power is also available (all inputs at once) at the flick of a switch.

Channel controls comprise gain, pan and fader plus a 4-band EQ section. The EQ controls are all shelving types centred on frequencies of 350Hz, 60Hz, 15kHz and 2.2kHz. Some might lament the lack of a sweepable midrange, but in practice the controls prove musically useful and provide all the tweakability you'll need for live work. For tweaking further down the line the XR 1200D is equipped with a 10-band stereo graphic EQ covering frequencies 63Hz-16kHz.

There are two pre-fader (monitor) and two post-fader (FX) sends. FX send A is normally routed to the in-built FX processor which gives you a

healthy selection of fairly high quality reverbs and delays plus some degree of programmability. This can be bypassed if necessary, and the signal routed to a second external FX processor. Each channel also has an insert point, and there are further inserts both at the input to the graphic EQ and at the input to the amplifiers.

HiSys 2 speakers

For the all important *MT* road test my review model came with a pair of HiSys 2 speakers, a two-way design rated at 350watts (continuous). A titanium compression driver/horn takes care of the top end, while a 15" kevlar-impregnated woofer does the business down below.

Fresh out of the box, these speakers look pretty smart, but as they're covered in material reminiscent of Fuzzy Felt I'm not sure how long they'd stay that way. Still, they come equipped with integral stand adaptors plus reliable (though fiddly) Neutrik 4-pin Speakon input connectors, so life isn't all that bad. And, of course, they sound pretty good too, particularly below the stairs.

Hard fax

Mixer channel

Frequency response:	20Hz to 30kHz, +0, -2 dB
Distortion:	less than 0.02 per cent @ 0dB
Impedance:	low 2Kohm/high 8.6Kohms
Maximum gain:	53dB low input to patch send
Nominal input levels:	low - 30dB 70mV RMS/high -16 dBV, 160mV RMS

Amplifier section

Output power:	300 watts @ 4 ohms
Total harmonic distortion:	less than 0.1% 100mV to rater power 20Hz to 10kHz, 4 ohms (typically below 0.05%)
Hum and noise:	83dB below 300W

FX section

Frequency response:	20HZ-11kHz
Signal to noise ratio:	95dB minimum.

Like all good mixers, the XR 1200D includes separate masters for FX send and return and even one for FX pan. You can also apply two FX separately to each of the two monitor mixes – now this is luxury!

If you're going for a stereo mix out front, you'll need an external amp or two to drive the monitors. However, one shake of a patch cable and you can set up the one XR 1200D amp to drive the front-of-house speakers and the other to drive the monitors. (I use the plural here as each amplifier is endowed with two speaker sockets.)

Other ins and outs include headphone socket and connections for recording/playback of tape decks etc, all with associated volume controls.

Metering comprises of a peak LED on each channel plus four-bar graph meters – two for the main stereo outs and one each for the monitor mixes.

Never mind that Mrs Lincoln, how does it all sound? The answer is pretty pokey, as I discovered when using the system to try out a new electronic drum kit for MT's sister magazine *Rhythm* while my accomplices pegged away on bass and guitar. The system certainly delivers a goodly amount of bottom end: we're not talking subsonics here, but it's easy enough to coax a happening low level groove out of this one, so clubbers take note.

If anything the speakers lack a bit of sparkle at the top end (though one man's sparkle is another man's excessive treble).

Whereas the sound is loud the desk itself is commendably quiet – and this

THE LAST WORD

Ease of use	Plug in and play
Originality	Not really applicable
Value for money	Given the quality, yes
Star quality	More workhorse than prima donna
Price	XR 1200D £1299 inc VAT HiSys 2 speakers £295 each inc. VAT
More from	Peavey Electronics UK Ltd • Hatton House • Hunters Road • Corby • Northants NN1 71JE • Tel: 0536 205520 • Fax: 0536 69029

time I am talking in terms of hissy signal paths. What's more, there's virtually no mains hum and no nasty crackling or clicks when you switch FX presets. The output from the amplifiers remains clean almost all the way up to number 11.

The ergonomics of the desk work fine too, although I would have liked to have seen solo/mute buttons on individual mixer channels and brighter coloured knobs – if only to cheer up the sound man a bit.

Overall, the Peavey turns in a solid performance. There's power enough to rock the house in your average pub or club, and sound quality is a definite cut above many of the (admittedly cheaper) all-in-one-box systems which seem to be springing up these days.

If you care enough to want to take charge of your sound, then take care to charge over to where you can give this system an audition. ●

MAKE THEM LISTEN



MORE POWER TO YOUR ELBOW

The Torque T100K
100 Watt Keyboard Combo
RRP £339.00

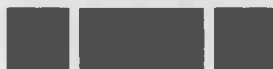
A dedicated 3-channel combo delivering 100 Watts RMS through a 15" twin cone Celestion speaker and HF bullet.

Each channel has high and low sensitivity inputs plus controls for Volume, Treble and Bass EQ and effects (built-in reverb or external unit) routing. Master section for overall volume and effects control.

Torque also manufacture PA systems plus a full range of guitar, bass and keyboard amps, speakers and combos.

UK DISTRIBUTION:
BARNES & MULLINS LTD
155 GRAYS INN ROAD
LONDON WC1X 8UF
TEL: 071-278 4631 • FAX: 071-837 2184

TORQUE



ACOUSTICS

SAYS IT ALL

Peavey's FX

No rusty spring reverb jobby this – the effects unit is based on a high quality chip offering a more than halfway decent selection of reverbs and delays. These are organised in eight banks of 16 presets and selected using two rotary controls – one for the banks, one for the presets. The selected bank/preset is shown by a combination of LEDs which have to be cross referenced to a grid on the front panel. The first five banks cover small, medium, large and extra large rooms, gated and reverse reverbs. Banks six and seven give you a range of mono, slapback, stereo and multi-tap delays, (including one which appears to have an infinite loop). The last bank – Multi-Effects – comprises what proves to be a rather inspiring bunch of reverb/delay special effects. Maximum reverb time is 10 seconds plus – more than adequate for making that gig in the closet sound like it's coming from the Cavern. Decay times can also be tweaked using the Delay/Tempo control, which, as its name suggests, also allows you to match delay times to the tempo of the music. This feature is not programmable though, and any adjustments will have to be made by ear as there's no visual indication of selected delay times.

SOUND GALAXY

PC SOUND CARDS

WITH **FREE** MICROPHONE FROM SILICA SYSTEMS

At last, a 16-bit STEREO PC Sound Card at an affordable price, and with more sound standards than any other sound card. That's just one of the Sound Galaxy range from Silica Systems. The range also includes 8-bit mono and stereo cards with several CD-ROM and sound standard options. Check out the Sound Galaxy cards against the competition in the comparison tables below. Powerful features, coupled with quality manufacture and keen pricing make the Sound Galaxy range a winner. And, every Sound Galaxy PC Sound Card from Silica Systems, comes with a Dynamic Microphone, worth £7.99+VAT FREE OF CHARGE!

8-bit COMPARISON	MONO		STEREO	
	AZTECH SOUND GALAXY BX II	CREATIVE SOUND BLASTER VERSION 2.0	AZTECH SOUND GALAXY NX II	AZTECH SOUND GALAXY NX PRO EXTRA
No Of Sound Standards	2	2	4	3
ADLIB	•	•	•	•
SOUND BLASTER VERSION 2	•	•	•	•
SOUND BLASTER PRO II	•	•	•	•
COVOX SPEECH THING	•	•	•	•
DISNEY SOUND SOURCE	•	•	•	•
FM SYNTHESIZER - OPL2	•	•	•	•
FM SYNTHESIZER - OPL3	•	•	•	•
MANUAL VOLUME CONTROL	•	•	•	•
DIGITAL SOFTWARE VOLUME CONTROL	•	•	•	•
DIGITAL BASS & TREBLE CONTROL	•	•	•	•
SAMPLING RATE, RECORDING UP TO:	23KHZ	15KHZ	23KHZ	44.1KHZ
SAMPLING RATE, PLAYBACK UP TO:	44.1KHZ	44.1KHZ	44.1KHZ	44.1KHZ
GAME PORT, WITH MIDI OPTION	•	•	•	•
DYNAMIC FILTERING FOR BETTER SOUND	•	•	•	•
CD AUDIO IN:	•	•	•	•
CAN USE MICROPHONE AND CD DURING DIGITAL PLAYBACK	•	•	•	•
SMT BOARD FOR BETTER RELIABILITY	•	•	•	•
FREE SPEAKERS	•	•	•	•
CD-ROM INTERFACE (AT-BUS)	•	•	•	•
PARASOUND INTERFACE	•	•	•	•
MITSUMI INTERFACE	•	•	•	•
SONY INTERFACE	•	•	•	•
CD-ROM INTERFACE (SCSI)	•	•	•	OPTION
MICROPHONE AGC AMPLIFIER	•	•	•	•
STEREO MICROPHONE INPUT	•	•	•	•
SOFTWARE SELECTABLE I/O, DMA & ADDRESS SETTING CONFIGURATION	•	•	•	•
RETAINED WHEN POWER OFF	•	•	•	•
MIXER SUPPORT FROM MORE THAN ONE SOURCE DURING RECORDING	•	•	•	•
BUILT-IN AMPLIFIER	•	•	•	•
STEREO LINES IN AND OUT	•	•	•	•

16-bit COMPARISON	STEREO				
	AZTECH SOUND GALAXY NX PRO 16	CREATIVE SOUND BLASTER 16 ASP	MEDIONVISION PRO AUDIO SPECTRUM 16	AZTECH BUSINESS AUDIO BOARD	MICROSOFT WINDOWS SOUND SYSTEM
No Of Sound Standards	6	2	2	2	1
ADLIB	•	•	•	•	•
SOUND BLASTER VERSION 2	•	•	•	•	•
SOUND BLASTER PRO II	•	•	•	•	•
MICROSOFT WINDOWS SOUND SYSTEM	•	•	•	•	•
COVOX SPEECH THING	•	•	•	•	•
DISNEY SOUND SOURCE	•	•	•	•	•
FM SYNTHESIZER - OPL3	•	•	•	•	•
DIGITAL SOFTWARE VOLUME CONTROL	•	•	•	•	•
DIGITAL BASS & TREBLE CONTROL	•	•	•	•	•
CD QUALITY SAMPLING RATE, RECORD & PLAYBACK UP TO:	44.1KHZ	44.1KHZ	44.1KHZ	44.1KHZ	44.1KHZ
GAME PORT, WITH MIDI OPTION	•	•	•	•	•
DYNAMIC FILTERING FOR BETTER SOUND	•	•	•	•	•
CD AUDIO IN:	•	•	•	•	•
CAN USE MICROPHONE AND CD DURING DIGITAL PLAYBACK	•	•	•	•	•
CD-ROM INTERFACE (AT-BUS)	•	•	•	•	•
PARASOUND INTERFACE	•	•	•	•	•
MITSUMI INTERFACE	•	•	•	•	•
SONY INTERFACE	•	•	•	•	•
CD-ROM INTERFACE (SCSI)	OPTION	•	•	OPTION	•
MICROPHONE AGC AMPLIFIER	•	•	•	•	•
STEREO MICROPHONE INPUT	•	•	•	•	•
SOFTWARE SELECTABLE I/O, DMA & ADDRESS SETTING CONFIGURATION	•	•	•	•	•
RETAINED WHEN POWER OFF	•	•	•	•	•
MIXER SUPPORT FROM MORE THAN ONE SOURCE DURING RECORDING	•	•	•	•	•
OPTION FOR UPGRADE TO 16-BIT WAVE TABLE SYNTHESIS	•	•	•	•	•
STEREO LINES IN AND OUT	•	•	•	•	•

8-bit MONO 2 SOUND STANDARDS



SOUND GALAXY BXII

- 8-bit Mono Sound Card
- 2 Sound Standards AdLib, Sound Blaster v.2
- FREE Speakers
- Dynamic Filtering: For Better Sound Reproduction
- CD Audio In: Direct Audio Connection from your CD-ROM into the Card
- Mixer Support: Recording and Playback from Multiple Sources
- Built-In Amplifier
- MIDI Interface
- FREE Dynamic Microphone from Silica

FREE! SPEAKERS

8-bit MONO £59

Ref: SOU 1002 +VAT = £69.33

8-bit MONO 4 SOUND STANDARDS



SOUND GALAXY NXII

- 8-bit Mono Sound Card with CD ROM Interface
- 4 Sound Standards AdLib, Sound Blaster v.2, Covox Speech Thing, Disney Sound Source
- FREE Speakers
- CD-ROM Interface (Built-In) For: Panasonic Drives
- Software Configuration Settings in Eeprom: Card Doesn't Reset on 'Power-Off'
- Software Control of Volume, Bass & Treble
- Built-In Amplifier & MIDI Interface
- FREE Dynamic Microphone from Silica

FREE! SPEAKERS

8-bit MONO £79

Ref: SOU 1024 +VAT = £92.83

8-bit STEREO 5 SOUND STANDARDS



SOUND GALAXY NX PRO EXTRA

- 8-bit Stereo Sound Card with CD ROM Interface
- 5 Sound Standards AdLib, Sound Blaster v.2, Sound Blaster Pro II, Covox Speech Thing, Disney Sound Source
- FREE Speakers
- CD-ROM Interface (Built-In) For: Panasonic, Mitsumi & Sony Drives - Optional Upgrade to SCSI
- Software Configuration Settings in Eeprom: Card Doesn't Reset on 'Power-Off'
- Software Control of Volume, Bass & Treble
- Built-In Amplifier & MIDI Interface
- FREE Dynamic Microphone from Silica

FREE! SPEAKERS

8-bit STEREO £99

Ref: SOU 1050 +VAT = £116.33

16-bit STEREO 2 SOUND STANDARDS



SOUND GALAXY BUSINESS AUDIO BOARD

- 16-bit Stereo Sound Card with CD ROM Interface
- 2 Sound Standards AdLib, Microsoft Windows Sound System
- FREE Headphones & Personal Microphone
- Ideal for the Serious Business User
- CD-ROM Interfaces (Built-In) For: Panasonic, Mitsumi & Sony Drives - Optional Upgrade to SCSI
- Software Control of Volume, Bass & Treble
- Built-In Amplifier
- FREE Dynamic Microphone from Silica

16-bit STEREO £99

Ref: SOU 1084 +VAT = £116.33

16-bit STEREO 6 SOUND STANDARDS



SOUND GALAXY NX PRO 16

- 16-bit Stereo Sound Card with CD ROM Interface
- 6 Sound Standards AdLib, Sound Blaster v.2, Sound Blaster Pro II, MS Windows Sound System, Covox Speech Thing, Disney Sound Source
- FREE Headphones & Personal Microphone
- CD-ROM Interfaces (Built-In) For: Panasonic, Mitsumi & Sony Drives - Optional Upgrade to SCSI
- Software Configuration Settings in Eeprom: Card Doesn't Reset on 'Power-Off'
- Software Control of Volume, Bass & Treble
- Built-In Amplifier & MIDI Interface
- Wave Power Upgrade: Uses an Ensoniq Chip to provide General MIDI Compatibility with 128 Instruments and 32 Note Polyphony
- FREE Dynamic Microphone from Silica

16-bit STEREO £149

Ref: SOU 1062 +VAT = £175.08

WAVE POWER UPGRADE FOR NX PRO 16

The WavePower daughterboard option plugs onto the NX PRO 16 and turns it into a powerful 32 note polyphonic Digital Wave-Table Synthesiser. Ensoniq, the well known manufacturers of professional music equipment, provide the chipset on WavePower. This allows for the realistic reproduction of various instrument sounds including Marimba, Guitar, Bass, Strings and Special Effects. WavePower is also General MIDI compatible providing the 128 instrument sounds and associated percussion required of the standard. WavePower comes bundled with MidiSoft Studio for Windows. This combination provides a powerful tool for you to create your own compositions or to playback the large number of MIDI files that are available.

£107.50
+VAT = £126.31 SOU 1096

ACCESSORIES

DYNAMIC MICROPHONE
For recording your own vocal samples or sound effects (this microphone is free from Silica with each Sound Galaxy Card).
SOU 9010 £7.99+VAT = £9.39

MIDI CABLE
Connects to the Game Port on the card and provides MIDI IN/OUT as well as an extension for a joystick.
SOU 9016 £9.99+VAT = £11.74

SONY ADAPTOR
When connected to the Mitsumi AT-Bus CD-ROM Interface on the NX PRO Extra, Business Audio Board or NX PRO 16, it allows connection of the Sony AT-Bus CD-ROM drive.
SOU 9021 £7.99+VAT = £9.39

SCSI EXTENSION BOARD
Plugging the Sound Galaxy Extension Board onto the NX PRO Extra, Business Audio Board or NX PRO 16, enables you to support a wide range of SCSI CD-ROM drives.
SOU 9028 £29+VAT = £34.08

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 14 YEARS:** Proven track record in professional computer sales.
- **£12 MILLION TURNOVER (with 60 staff):** Solid, reliable and profitable.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
- **SHOWROOMS:** Demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers + software and peripheral details.
- **PAYMENT:** Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

Before you decide when to buy your new PC peripherals, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional products or consumables, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE
081-309 1111

SILICA SYSTEMS

MAIL ORDER: Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-309 1111 Fax No: 081-308 0608
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000 Fax No: 071-323 4737
LONDON SHOP: Opening Hours: Mon-Sat 9.30am-7.00pm	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB Late Night: Thursday - 9pm	Tel: 071-629 1234 Extension: 3914
SIDCUP SHOP: Opening Hours: Mon-Sat 9.00am-5.30pm	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Late Night: Friday - 7pm	Tel: 081-302 8811 Fax No: 081-309 0017
ESSEX SHOP: Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm)	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA Late Night: Thursday - 7pm	Tel: 0702 468039 Fax No: 0702 468039

To: Silica Systems, MUTEK-1093-110, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX
PLEASE SEND INFORMATION ON PC SOUND CARDS

Mr/Mrs/Ms: Initials: Surname: Date:

Company Name (if applicable):

Address:

Postcode:

Tel (Home): Tel (Work):

Which computer(s), if any, do you own?

Novation

mm10-X

keyboard



Photo: James Cumpsty

Two octaves to go – Nicholas Rowland checks out the ultimate add on for the QY20

Aeroplane and buses, shopping malls, scout camps, Club 18-30 resorts, the Lake District... all places steadfastly avoided by MIDI musicians dependent on mains supply and easily embarrassed by taunts of "Give us a tune on yer workstation". All that has changed with products like the Yamaha QY10 Walkstation, a battery-powered multitimbral synth, drum machine and MIDI sequencer in a box smaller than a Gideon's Bible. The only problem, as users soon discovered, was that programming required the patience of a saint.

Enter the Novation mm10, a small but perfectly formed controller keyboard giving you 25 full-size keys, pitchbend and controller wheels, a sprinkling of MIDI functions, plus a slot in which to stick your QY10. Et voila – the dinkiest workstation on the campsite.

The mm10-X is a new, improved version produced in response to the QY20, Yamaha's new, improved walkstation. What's so new and improved? Apart from an extra X in the title, you get a better display (LCD instead of LED) and the ability to assign different controllers to the mod wheel. The new model also dispenses with the mm10's audio connections which allowed you to listen to the QY10 through the keyboard's internal headphone amplifiers. Not a great loss, methinks.

Like its forbear, the mm10-X's design is very much tailored to the Yamaha machines, although you'll need a special (and rather expensive) plastic adaptor to fit the QY20 into the slot provided. However, don't let the ergonomics lead you into thinking this is only of interest to QY owners. If you're looking for a general purpose MIDI controller keyboard you can stuff down your socks, read on.

As befits a piece of equipment designed for the musician on the move, the mm10-X is powered by six AA 1.5V batteries which the manual insists will enable you to play completely unattached for 100 hours. Rather thoughtfully the mm10-X gives you five hours' warning of the end of battery life as we know it – a battery symbol starts flashing ominously on the small LCD screen.

If you're not playing in any of the places mentioned above and a mains socket is available, you can make use of the optional 9V adaptor. The mm10-X will also pass on power to the QY10/20 without needing a separate 9V adaptor (a combined MIDI/power lead is provided for this purpose.) Apart from MIDI Out the only other hole round the back is an input for a sustain pedal.

As you might expect, the keyboard is non-weighted, but is velocity sensitive. (Aftertouch can be added via the mod wheel, of which more below.) The two octaves are laid out C-C and on power up you'll find that the middle C actually plays Middle C (ie, MIDI note 60). A few prods of the cursor buttons and you can transpose up four or down three whole octaves: a few prods more and you can transpose by single semitone steps as well. These octave shifts are always displayed on the LCD so you should know

which octave you're in at any time. (Unless, that is, you're shortsighted or playing in a darkened room, since the LCD is rather small and not backlit.)

If you shift octaves while holding notes down, those notes are unaffected. This means you can play a bass note then quickly skip up the registers and play the lead part over the top.

More prodding of the cursor buttons takes you through the MIDI programming functions: MIDI channel select (1-16); program change number (1-128); and controller wheel assignment which enables you to assign one of four MIDI controllers to the mod wheel (Modulation, Aftertouch, Volume and Panning). The last two can come in quite handy for MIDI-mixing QY20 sequencer tracks or indeed most other multiimbral keyboards or expanders for that matter.

And that's really all there is to it, folks. Grouses? The keyboard itself ain't no Steinway, though I suspect it would loosen up a little more after continued use. Oh, and nothing is saved to memory when you switch off – all settings return to default. Ah yes... and the RRP for the QY20 adaptor is a somewhat steep £14.99, but I've said that already.

Otherwise, this is a reasonably priced and well thoughtout piece of gear which apart from being ideal for the musician with wanderlust could find gainful employment in your spare bedroom... ermm, MIDI programming suite.

Whether you own a QY module or not, just don't let the mm10 X leave home without you. ●

THE LAST WORD

Ease of use	How complicated can four buttons be?
Originality	As original as the original
Value for money	Yes (apart from the QY20 adaptor)
Star quality	Hot to trot
Price	keyboard £159.99 carry case £15.99 AC adaptor £15.99 QY20 adaptor £14.99
More from	Novation Systems ● The Ice House ● Dean Street ● Marlow ● Bucks SL7 3AB ● Tel: 0628 481992 ● Fax: 0628 481835

TSR24: THE POWER OF S-DISC™

The New Digitech TSR24 True Stereo Reverb and Multi-Effects Processor features proprietary S-DISC™ technology which literally redefines digital processing.

The S-DISC™ engine has a revolutionary new operating system that allows the user to create in any combination and in any order custom effects arrays, breaking away from the limitations of conventional algorithms.

The Dynamic Instruction Set Computer (S-DISC™) provides unmatched memory and processing power, surpassing products costing many times the TSR24's price.

Increased capabilities may also be obtained by adding the optional PPC200 expansion card which delivers 256k of additional dynamic RAM.

The PPC200 unlocks the door to the TSR24's most sophisticated operational possibilities by doubling the memory and processing power.

Experience the power of the S-DISC™ technology with Digitech's TSR24 True Stereo Reverb and Multi-Effects Processor.

S-DISC™



DigitTech

For more information send a large SAE (Inc tel. no.) to Dept. TSR24
John Hornby Skewes & Co. Ltd., Salem House, Parkinson Approach, Garforth, Leeds LS25 2HR

Autumn Zippers

BEST PRICES EVER
WE BUY USED GEAR
TEAR INTO THEM

From your ever lovin' ABC Music

Top Value New Workstation

Korg X-3

Massive 6Mb of waveform memory
AI¹ sounds!

New at ABC

It's here at ABC! The super new Korg X-3 workstation offers tremendous value with a plethora of great features not usually found in this price range. 32 voices, 528 superb preset sounds, 200 combinations, 16 track sequencer, DOS compatible disk drive and much more. **IN STOCK NOW!**

- 528 01/W sounds • 16 part Multi Timbral
- Massive 6Mb PCM wave memory
- 32 voice, 32 oscillator (Single mode)
- 16tr sequencer - 10 songs
- 2 fx systems - 47 superb sounding effects
- Try it today at ABC!



Yamaha SY35 £599
The SY35 must be the BEST VALUE synth around at the moment - all this for less than £600 - it's unbelievable!

- Vector controlled, AWM & FM sounds
- 128 superb presets. On-board FX
- Multi-timbral, 61 keys.



"Portastudio" Corner
ABC has loads of 4 track machines to suite all budgets. Just a selection

- Tascam Porta 07.....£349
- Tascam 424.....£499
- Fostex 380 New dotly S.....£699
- Fostex X28HS.....£399



Folio 4
Come try this superb new console with outstanding facility & spec.

From £1149



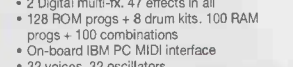
Akai DR4D Hard Disk Recording
4 channel direct-to-disk package with powerful editing features

- 4 tracks at once at 16bit 44.1kHz
- Very simple operation - just like tape!
- Various hard drive options available
- 200Mb gives 32 mins recording (1 track)



EMU Vintage Keys
LOVE the sound of the old analogue synths? Big fat strings and funky bass sounds? Have them NOW!

- Sampled 'old synth' sounds
- 384 sounds - 32 note polyphony
- 32 ANALOGUE FILTERS!



Zoom 9001 Only £199
Easy to use stereo effects from Zoom

- 40 patch locations. Ideal for recording
- Easily arranged into effects types
- 2 patch changers, Tone oscillator
- FREE POWER SUPPLY
- SRP £349 SAVE £150 with ABC!



Zoom 9120 Save £160!
Super effects including Stunning Reverb, Wild special FX, Chorus, Delay & Pitch shifting. 22 in all

- Stereo input/output
- Excellent MIDI spec
- was £499 Save £160 with ABC!



Crate 160 Watt Combo
Superb value keyboard combo with 3 channel mixing, Reverb and 160watt power.

- 3 channel inputs
- 160watt power • Parametric EQ



Boss DS-330
Great value synth module

- 156 single voices
- 8 drum sets
- 16 part multi-timbral
- 28 voice polyphonic
- Sounds superb!



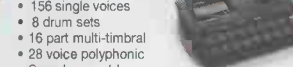
Roland JV-1000 NEW!
78 velocity sensitive & aftertouch keys

- 128 preset waveforms - 4Mb memory
- Absolutely superb sequencer
- Built-in 3.5" disk drive



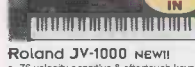
Cheetah MD16 £225
Quality drum module with Trigger inputs & digital sounds

- Over 500 great sampled sounds
- MIDI or Trigger ins • 16bit
- We have the very last of these super little beasts. So Hurry NOW!



Roland JW-50
Sound source, sequencing and performing workstation. SRP £1399 SAVE £300!

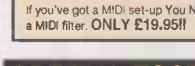
- 317 GE-quality sounds • 24 note polyphonic
- 46,000 note sequencer • Digital FX on-board
- Built-in disk drive
- 16 part multi-timbral
- 61-key keyboard
- Disk Drive



Anatek MIDI Filter
If you've got a MIDI set-up you NEED a MIDI filter. ONLY £19.95!



PACKIT FILTER!



SPECIAL FOSTEX Limited Offer
Mixtab + DCM100
Quality automated MIDI controlled mixing

- Full-function 8:2 mixer with Hi/Lo EQ, PAN
- 100 memories • MIDI controlled
- Link 3 DCM together for 24 tracks!

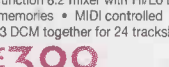


Emu Proteus MPS+ Only £999
Get this A Proteus 1 AND Proteus 2 AND digital effects AND a Superb 61-key keyboard - all in one package.



Akai Samplers
Akai S01.....ABC Price £799
We recommend this stunning value sampler. It's easy to use, has great features and nothing beats it at this price point.

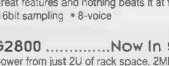
- 16bit sampling • 8-voice



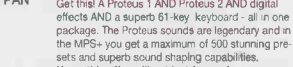
NEW...NEW...NEW...NEW KORG i3
Interactive workstation. Basic specification as per the superb X-3 + a huge selection of Music Styles and arrangements.



ABC music
Bristol 32 Alma Vale Rd0272 238200
Exeter 68 Bartholomew St West.0392 425125
St Albans 130 London Road.....0727 856351
Kingston 56 Surbiton Road081 546 9877
Oxford 44 St Clements0865 724820
Slough 324 Farnham Rd.....0753 822754



ABC music
Bristol 32 Alma Vale Rd0272 238200
Exeter 68 Bartholomew St West.0392 425125
St Albans 130 London Road.....0727 856351
Kingston 56 Surbiton Road081 546 9877
Oxford 44 St Clements0865 724820
Slough 324 Farnham Rd.....0753 822754



ABC music
Bristol 32 Alma Vale Rd0272 238200
Exeter 68 Bartholomew St West.0392 425125
St Albans 130 London Road.....0727 856351
Kingston 56 Surbiton Road081 546 9877
Oxford 44 St Clements0865 724820
Slough 324 Farnham Rd.....0753 822754

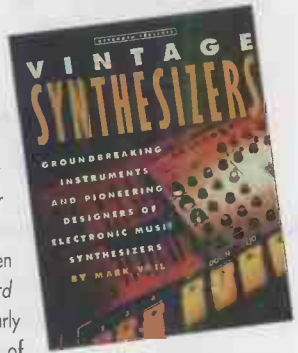
WE WANT YOUR USED HI-TECH GEAR - FOR CASH OR P/X
You bet ya! Why not turn that unwanted Recording Equipment or effect into CASH - or use it as a part exchange on a new model. ABC Music offer the very best prices on used gear. You won't find a better deal. Call 0372 468114 for an immediate price guide. Also wanted - Guitars, Amplifiers, Synths, Keyboards, Samplers, PA Equipment, Outboard etc etc.

SHORT CUTS

Miller Freeman Books

Vintage Synthesizers

Edited by Mark Vail



If you're interested in old synths buy this book. It's by no means a complete rundown of every vintage synth ever made; it's not logically planned; some of the black and white pictures are rather murky - but it's absolutely fascinating.

I should point out that if you happen to have been a subscriber to the American magazine *Keyboard* over the last ten years or so, you'll have seen nearly all of this book before: it's largely composed of straight reprints of articles from the magazine. But if not, you're in for a treat. In addition to contributions from Bob Moog on the rise and fall of ARP and Moog, the book features his evaluation of the ARP 2600, the Oberheim SEM module, the Minimoog and E-mu modular synths. Moog also pays respectful homage to some of the other all-time great machines, like the Prophet 5, the VCS3/Synthi AKS, the CS80 and the Chroma, and some specifically American detail on Buchla and EML which is hard to come by on this side of the Atlantic.

A further section is dedicated to classic digital synths like the PPG Wave, Synergy, GDS, Fairlight and Emulator, and there's a rundown of some of the best European analogue designs, like the Korg, the Synrix, the Wasp, the OSCar and, of course, the Mellotron in all its tape-driven glory.

But it's not only the success stories that are covered. The book offers due reverential regard to the almost unknowns, the brave failures and the chronic disasters that litter the history of synthesis: the Coupland (like something out of *Invasion Of The Bodysnatchers*); the Con Brio (which went through three incarnations and sold one unit for \$30,000); the Kinetic Sound Prism (which also clocked up sales of one unit, this time for \$45,000); and other expensive toys like the McLevyier and Adaptive Systems' Synthia.

And it's not all top-end turkeys either. You could spend a lot less money and still end up with complete off-the-wall address - like the Vako Orchestron, the Gleeman Pentaphonic Clear and, of course, the Stylophone. The strange thing is that even if instruments like this don't sound that great, they do, at least, sound *different*. They have character, nostalgic appeal and just plain weirdness, and often appreciate more than the solid, useful workhorses. A few years ago, there were hardly any takers for combo organs, even at bargain prices. Suddenly, as a chapter in the book reveals, they've become desirable and collectable.

Vintage Synthesizers includes a price guide for many classic machines (prices, you will note, are much lower in the States) and this throws up some anomalies such as DX5s being cheaper on the street than DX7s, and Vox Jaguars more expensive than Continentals. It also includes tantalising references to keyboards I never knew existed, such as the Roland VP220, the Sequential Split-8 and the Minitmoog (sic) - a misprint or a rarity? The great thing about this book is that it makes you want to find out.

Peter Forrest

THE LAST WORD	
Usefulness	Invaluable for the enthusiast
Value for money	Peanuts - if you enjoy 'A-Z Of Analogue'
Star Quality	Content triumphs over style
Price	£15.99
More from	Gazelle Book Services • Falcon House • Queen's Square • Lancaster • LA1 1RN • Tel: 0524 68765 • Fax: 0524 63232

Instant Despatch + 7 day money-back guarantee!

0865 725221

CITIZEN PRINTERS

FROM SILICA SYSTEMS

- **FREE DELIVERY** Next Day - Anywhere in the UK mainland
- **2 YEAR WARRANTY** (including the dot matrix printer head)
- **FREE STARTER KIT** With Citizen dot matrix printers from Silica
- **WINDOWS 3.1** Free Windows 3.1 driver with Starter Kit
- **FREE HELPLINE** Technical support during office hours



FREE! STARTER KIT
WORTH £57.58
INC VAT

- FREE STARTER KIT INCLUDES:**
- 3 1/4" Disk with Amiga Print Manager
 - 3 1/4" Disk with Windows 3.1 Driver
 - 1.8 Metre Parallel Printer Cable
 - 200 Sheets of Continuous Paper
 - 100 Continuous Tractor Feed Address Labels
 - 5 Continuous Envelopes on Tractor Feed

AMIGA PRINT MANAGER V2.01
For faster printing from your Amiga, with clearer images and more vibrant colours. Available free of charge as part of the Silica Printer Starter Kit.

Features include:

- Improved Image Smoothing
- Image Scaling
- Gamma/Colour Correction
- Colour Separation
- Reduces/Eliminates Banding

KIT VALUE £49 + VAT

PERIPHERALS & ACCESSORIES

EXCLUSIVE OFFER



CITIZEN SHEET FEEDER
For Swift 9, 90, 24, 24e, 200, 240, 224
Semi-Automatic Cut Sheet Feeder for smooth trouble free paper handling. Requires manual sheet injection using lever.

RRP £40.00
£19.95
+VAT=£23.44 - PPA 1228

- SHEET FEEDERS**
- PRA 1200 120D+ £71.38
 - PRA 1222 124D/224/Swift 80 Col Printers £88.13
- SERIAL INTERFACES**
- PRA 1189 120D+ £56.45
 - PRA 1209 Swift 9/90/124D/224 £32.25
 - PRA 1709 Swift 24/24e/240/240 Col. £26.38
- 32K MEMORY EXPN**
- PRA 1753 224/Swift 24/24e/24e £14.45
- PRINTER STAND**
- PRA 1242 Swift 9, 90, 24, 24e, 200, 240, 224 £22.33
 - PRA 1274 Swift 9/90/24/200/240 £34.95
- ORIGINAL RIBBONS**
- RIB 3520 120D/Swift 9/90 Black £2.91
 - RIB 3949 Swift 9x Black £7.15
 - RIB 3924 124D/Swift 24/200/240 Black. £4.20
 - RIB 3936 224/Swift 9/90/24/200/240 Col. £15.63
 - RIB 3248 PN48 Single Strike £3.61
 - RIB 3348 PN48 Multi Strike £3.61
- COLOUR KITS**
- PRA 1236 224/Swift 9/90/24e/200/240 £35.25
 - PRA 1240 Swift 9x/24x £45.25
- PN48 ACCESSORIES**
- PRA 1148 PN48 Battery £46.70
 - PRA 1155 PN48 Cable Extn £29.37
 - PRA 1162 PN48 Car Adaptor £18.74

INKJET 360 CPS 80 COLUMN

- Citizen Projekt inkjet - 80 column
- 360cps Draft, 120cps NLO
- 50 Nozzle Head - Whisper Quiet 47dB(A)
- 8K Printer Buffer
- RAM Card Options
- 3 Fonts Built-in
- Optional HP Compatible Font Cards
- Parallel and Serial Interface
- Graphics Resolution: 300x300dpi
- HP Deskjet Plus Emulation
- 2 Year Warranty



RRP £496
TOTAL VALUE: £496
SAVING: £217
SILICA PRICE: £279
+VAT=£327.83 - PPI 2090

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
 - **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
 - **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
 - **ESTABLISHED 14 YEARS:** Proven track record in professional computer sales.
 - **£12 MILLION TURNOVER (with 60 staff):** Solid, reliable and profitable.
 - **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
 - **SHOWROOMS:** Demonstration and training facilities at all our stores.
 - **THE FULL STOCK RANGE:** All of your requirements from one supplier.
 - **FREE CATALOGUES:** Will be mailed to you with offers + software and peripheral details.
 - **PAYMENT:** Major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).
- Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE
081-309 1111



SILICA IS A DIVISION OF PRODIS PLC

CITIZEN PRINTERS

WITH 2 YEAR WARRANTY

24 PIN 270 CPS 80 COLUMN



2 YEAR WARRANTY

FREE! STARTER KIT
WORTH £49.00
SEE LEFT

FREE DELIVERY

COLOUR KIT OPTIONAL EXTRA

SWIFT 200

- Citizen Swift 200 - 24 pin - 80 column
- 270cps SD (15cpi), 216 cps Draft, 72cps LQ
- 8K Printer Buffer (40K max) + 7 LQ Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360 dpi
- Epson, IBM, & NEC P20 Emulations
- Quarter Printing and Auto Set Facility
- Ultra Quiet Mode - 43dB(A)
- Colour Kit - Optional Extra (See Left)
- FREE Silica Printer Starter Kit

RRP £259
SILICA STARTER KIT £49
TOTAL VALUE: £308
SAVING: £123
SILICA PRICE: £185
+VAT=£217.38 - PPI 2490

9 PIN 144 CPS 80 COLUMN



2 YEAR WARRANTY

FREE! STARTER KIT
WORTH £49.00
SEE LEFT

FREE DELIVERY

CITIZEN 120D+

- Citizen 120D+ - 9 pin - 80 column
- 144cps Draft, 30cps NLO
- 4K Printer Buffer + 2 Fonts
- Parallel or Serial Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Pull tractor & bottom feed
- FREE Silica Printer Starter Kit

RRP £199
SILICA STARTER KIT £49
TOTAL VALUE: £248
SAVING: £133
SILICA PRICE: £115
+VAT=£135.13 - PPI 2120

The Citizen 120D printer comes supplied with a parallel interface as standard. If you require a serial interface instead, please state ref: PPI 2125 when placing your order with Silica.

24 PIN 300 CPS 80 COLUMN



2 YEAR WARRANTY

FREE! STARTER KIT
WORTH £49.00
SEE ABOVE

FREE! DELIVERY

FREE! Pen Pal v1.5 or Windows Enhancement Software From CITIZEN Worth up to £49.95

SWIFT 240 MONO

- Citizen Swift 240/240C - 24 pin - 80 column
- 300cps SD (15cpi), 240cps Draft, 80cps LQ
- 8K Printer Buffer - 40K maximum
- 9 LQ Fonts + 2 Scalable Fonts (8-40x9)
- Font Cartridge Slot - for plug-in style fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM, NEC P20 & CEL Emulations
- Quarter Printing Facility
- Auto Set Facility - Bi-directional I/F, Auto Emulation Detection
- Ultra Quiet Mode - 43dB(A)
- Colour Printing Standard - Swift 240C, Colour Printing Optional - Swift 240
- FREE Silica Printer Starter Kit

RRP £339
STARTER KIT £49
TOTAL VALUE: £388
SAVING: £149
SILICA PRICE: £239
+VAT=£280.83 - PPI 2560

9 PIN 240 CPS 80 COLUMN



2 YEAR WARRANTY

FREE! STARTER KIT
WORTH £49.00
SEE ABOVE

FREE DELIVERY

COLOUR VERSION AVAILABLE

SWIFT 90 MONO

- Citizen Swift 90 - 9 pin - 80 column
- 240cps SD (10cpi) 192cps Draft, 48cps NLO
- 8K Printer Buffer
- 6 Fonts Built-in
- Parallel Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Auto Set Facility
- Ultra Quiet Mode - 45dB(A)
- Advanced Paper Handling
- Colour Printing Standard - Swift 90C
- Colour Printing Optional - Swift 90
- FREE Silica Printer Starter Kit

RRP £199
STARTER KIT £49
TOTAL VALUE: £248
SAVING: £99
SILICA PRICE: £149
+VAT=£175.08 - PPI 2290

24 PIN 192 CPS 136 COLUMN



2 YEAR WARRANTY

FREE! STARTER KIT
WORTH £49.00
SEE ABOVE

FREE DELIVERY

SWIFT 24X

- Citizen Swift 24x - 24 pin - 136 col
- 192cps Draft, 64cps NLO
- 8K Printer Buffer + 4 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM and NEC P6 Emulation
- Colour Option Available
- FREE Silica Printer Starter Kit

RRP £489
SILICA STARTER KIT £49
TOTAL VALUE: £538
SAVING: £229
SILICA PRICE: £309
+VAT=£363.08 - PPI 2574

9 PIN 64 CPS 80 COLUMN



2 YEAR WARRANTY

FREE DELIVERY

CITIZEN PN 48

- Citizen PN48 Notebook Printer
- Non-impact Printing on Plain Paper
- 53cps LO - 4K Buffer + 2 Fonts
- Rear and Bottom Paper Loading
- Parallel Interface
- Graphics Res: 360 x 360dpi
- Epson, IBM, NEC P6 & Citizen Emulation
- Power: Mains, Battery or Car Adaptor

RRP £325
TOTAL VALUE: £325
SAVING: £126
SILICA PRICE: £199
+VAT=£233.83 - PPI 2100

MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening
Tel: 081-309 1111 Fax No: 081-308 0608

LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening
Tel: 071-580 4000 Fax No: 071-323 4737

LONDON SHOP: Selfridges (Basement Arena), Oxford Street, London, W1A 1AB
Opening Hours: Mon-Sat 9.30am-7.00pm Late Night: Thursday - 8pm
Tel: 071-629 1234 Extension: 3914

SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday - 7pm
Tel: 081-302 8811 Fax No: 081-309 0017

ESSEX SHOP: Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA
Opening Hours: Mon-Fri 9.30am-5.30pm (Sat 9.00am-6.00pm) Late Night: Thursday - 7pm
Tel: 0702 468039 Fax No: 0702 468039

To: Silica Systems, MUTC-1093-55, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A BROCHURE ON THE CITIZEN RANGE

Mr/Ms/Ms: Initials: Surname: Date:

Company Name (if applicable):

Address:

Postcode:

Tel (Home): Tel (Work):

Which computer(s), if any, do you own?..... 55V

£&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

BEAT MUSIC SUPERSTORE

395 COLDHARBOUR LANE
BRIXTON, LONDON SW9 8LQ
TEL: 071-733-6821

SOME NEW, SECONDHAND AND EX-DEMO BARGAINS

- Akai ME25S MidI Note Separator.....£179
- AKG BX-5 stereo reverb.....£85
- AKG D224C microphone.....£249
- Alesis data disc.....£295
- Alesis HR16 Drums.....£149
- Alesis Microverb III.....£149
- Alesis MMT8 sequencer.....£149
- ARP AXXE synth.....£225
- ART FXR Elite programmable FX.....£249
- ART FXR Elite programmable Multi-FX.....£285
- ART FXR Multi-FX.....£179
- Boss CL50 compressor.....£85
- Casio CSM1 sound module.....£85
- Casio DH100 MIDI horn.....£89
- Casio RZ1 drum/sampler.....£99
- Cadenza for PC.....£149
- Cheetah MQ8 Sequencer.....£125
- Cubase for Windows.....£179
- Cubase Handbook.....£29
- Cubase Lite for St.....£89
- DBX Over-easy Noise Gate.....£125
- Digitech DSP 256XL multi-FX.....£299
- Digitech MEQ14 MIDI programmable EQ.....£299
- Digitech PM10 MIDI foot controller.....£199
- Dod 4 channel rack mixer.....£99
- Dod 31-band mono rack EQ.....£199
- Dod Quad Noise Gate.....£345
- Drawmer LX20 Compressor.....£189
- Dynamix 12/2/2 Live Mix.....£399
- Ensoniq ESQ1 synth + 2 x cartridges.....£449
- Feeling Partner for Atari.....£99
- Fostex 450 autolocator.....£299
- Fostex MC-102 mixer/multitracker.....£199
- Fostex 160 multitracker.....£199
- Fostex 2016 line mixer.....£199
- Fostex X26 multitracker.....£225
- Frontline X8 Rackmount Mixer.....£169
- JBL 4206 monitor speakers.....£285
- JBL 4208 monitor speakers.....£329
- J.L. Cooper PPS2 Sync Box.....£159
- Kawai K1 module.....£199
- Kawai K5 module.....£399
- Kawai Q80 sequencer.....£299
- Korg DD5 drums.....£125
- Korg M1.....£849
- Korg Micro pre-set synth.....£89
- Korg S08 sequencer.....£89
- Lexicon MRC1 MIDI remote.....£149
- Lexicon LXP1.....£225
- Mac Powered Monitor Speakers Pair.....£89
- Midiman Smart Sync.....£89
- MK-219 Russian studio mic.....£199
- MOTU Performer for Mac.....£150
- Musicator for PC.....£269
- Neuman U87 microphone.....£649
- Oberheim Drummer.....£99
- OP Code EZ Vision for Mac.....£99

...AND MUCH, MUCH MORE!!

0% FINANCE (ON SELECTED ITEMS — SUBJECT TO STATUS)

ROLAND SCC1
SOUND CANVAS CARD FOR PC



DEPOSIT £69.82p
6 MONTHLY PAYMENTS OF £46.53
TOTAL PAYMENTS
£349

MACKIE 1604
MIXING DESK



DEPOSIT £169.77p
9 MONTHLY PAYMENTS OF £75.47p
TOTAL PAYMENTS
£849

NOTATOR LOGIC
SEQUENCING/NOTATION FOR ATARI OR MAC



DEPOSIT £99.85p
9 MONTHLY PAYMENTS OF £44.35p
TOTAL PAYMENTS
£499

SOUND TRAKS
SOLO 16 MIDI PRODUCTION MIXER




DEPOSIT £737.50p
12X MONTHLY PAYMENTS OF
£184.37p

ROLAND JV80
SYNTHESIZER



DEPOSIT £259.80p
12X MONTHLY PAYMENTS OF
£86.60p
TOTAL PAYMENTS
£1299

MARANTZ PDM740
MULTITRACK RECORDER



DEPOSIT £159.82p
9 MONTHLY PAYMENTS OF £71.02p
TOTAL PAYMENTS
£799

ALESIS
3630 COMPRESSOR




DEPOSIT £50.02p
6 MONTHLY PAYMENTS OF £33.33p
TOTAL PAYMENTS
£250

GEM S2
WORKSTATION



DEPOSIT £319.80p
12 MONTHLY PAYMENTS OF
£106.60p
TOTAL PAYMENTS
£1599

AKAI
S01 SAMPLER



DEPOSIT £159.82p
9 MONTHLY PAYMENTS OF £71.02p
TOTAL PAYMENTS
£799

ALESIS
D4 DRUM MACHINE MODULE



DEPOSIT £69.82p
6 MONTHLY PAYMENTS OF £46.53p
TOTAL PAYMENTS
£349

ALESIS
SR16 DRUM MACHINE




DEPOSIT £47.78p
6 MONTHLY PAYMENTS OF £31.87p
TOTAL PAYMENTS
£239

ALESIS
QUADRAVERB PLUS



DEPOSIT £69.82p
6 MONTHLY PAYMENTS OF
£46.53p
TOTAL PAYMENTS
£349

ENSONIQ
TS10 WORKSTATION




DEPOSIT £379.96p
12 MONTHLY PAYMENTS OF
£126.67p
TOTAL PAYMENTS
£1899

DIGITECH
VHMS VOCALIST



DEPOSIT £159.82p
9 MONTHLY PAYMENTS OF £71.02p
TOTAL PAYMENTS
£799

ENSONIQ
SQR 32 VOICE



DEPOSIT £119.78p
6 MONTHLY PAYMENTS OF £79.87p
TOTAL PAYMENTS
£599

SOME NEW, SECONDHAND AND EX-DEMO BARGAINS

- OP code Track Chart for Mac.....£99
- Otto Automation for Mackie.....£599
- Peavey Unity 1000 8/2 mixer.....£199
- Phonic 8/2 Mixer with Midi Thru.....£199
- Proteus World.....£499
- Proteus 10R.....£499
- Roland A30 Midi controller.....£399
- Roland AXI Remote Keyboard.....£399
- Roland CF10 Digital Fader.....£49
- Roland CM300 Sound Canvas.....£299
- Roland CN20 Note Entry Pad.....£49
- Roland EP3 piano.....£299
- Roland E10.....£325
- Roland E16.....£479
- Roland E20.....£399
- Roland JX8P.....£425
- Roland LAPCI Sound Card.....£299
- Roland MT100 (D110 + Drive + Sequencer).....£349
- Roland PC150 Midi controller.....£139
- Roland PC200 MKII Midi controller.....£225
- Roland R5 Drum Machine.....£225
- Roland S10 sampler.....£349
- Roland SCC1 Sound Card.....£325
- Roland SC7 Sound Canvas with Band in Box and Turbo SeqWin for Windows.....£99
- Roland SPD11.....£399
- Roland TR505 drums.....£99
- Roland TR707 drums.....£149
- Roland W30 sampling workstation.....£899
- Sequencer One Plus for St.....£49
- Simmons 8/2 MidI mixer.....£185
- Simmons SDS9 pad (built in sounds).....£59
- Soundtech 150 watt power amp.....£249
- Soundtech 300 watt 6 channel P.A. amp with digital delay.....£399
- Soundtech 500 watt power amp.....£399
- Soundtech 1000 watt power amp.....£599
- Steven stereo rack equaliser.....£99
- Tascam Porta 2.....£249
- Tascam Porta 05.....£199
- Third Generation 6/2 Mixer.....£149
- Trax for Mac.....£59
- Tuac 1000 watt power amp.....£299
- WEM 400 watt power amp.....£249
- Yamaha DX100 Synth.....£149
- Yamaha Emotio piano module.....£119
- Yamaha EMR1 drum module.....£89
- Yamaha MSSI Sync Box.....£145
- Yamaha MT2X multitracker.....£299
- Yamaha PSR 310 k/bd.....£225
- Yamaha QX7 sequencer.....£99
- Yamaha RX1 remote control.....£49
- Yamaha RX21L percussion.....£69
- Yamaha TX81Z.....£189
- Yamaha YPR9 piano.....£199

IF YOU DON'T SEE WHAT YOU WANT PHONE!!

WE BUY GOODS FOR CASH OR TAKE GOODS IN EXCHANGE

Hurrah! Another Demo Forum at the London Music Show, 27th-28th November. See page 13 for more details...



- ▶ teetering over an abyss that runs straight down the middle of the road. For the latter bring on the original mix of 'Changes', the title and first track on the tape (also available as three other mixes). Well arranged and produced, but often

approaching Eurovision territory. However, all three mixes, with the exception of one or two samples, bring the song right up to date.

The best track by far, however, is 'Knock Me Down', an electronicised Jesus Jones smacker with enough variation, hook and energy to keep all but the most paralysed of feet tapping.

Not afraid to swing the mood again, Chant move to a slower style that threatens Enigma with Gregorian samples, but

develops into a well-crafted ballad that completes a competent demo. Changes (sorry) in the order are required though.

Contact: Mickey Haughton, 0384 894679 (West Midlands)

Fraxis

Yamaha SY77 and SY99; Ensoniq EPS and VFX; Atari running Cubase V3.0; Digidesign Turbosynth, MOTU MM7 mixer; Klark Teknik EQ, Panasonic SV3700 DAT

With an obvious talent just itching to get noticed, Robert Fraxis seems unsure about exactly where he fits in. He doesn't mind re-packaging ideas to give them a new lease of life but is against the "current excessive fad for cover versions". He claims to have developed an original style of music composition in the blurb accompanying his well-packaged CD, but the music is not just derivative, it often defies belief.

What you get is 'Hyperdance', a slice of Jarre if ever there was one - 'Magnetic Fields Part 8' (not on the original album); 'Deja Vu' (mm...), 'Oxygene Part 4' without the catchy bit and 'Azure', an Enya-like instrumental. The track 'Zanzibar', the best on the CD, is a pretty good piece of ambient house, and points along a route Robert should follow. The origins are a little more blurred, so on this occasion you don't find yourself shouting the album title and track of the influencing artist.

All Robert wants is revealed in more of his commentary. This CD is apparently intended as a calling card for record companies, to create interest so he can begin a dialogue and produce dance tracks if that's what they want.

Dialogue? Some hope.

What they'll hear is a CD that tries to combine pastiche and dance/pop tunes and demonstrate musical variety. A pastiche it certainly is - an imitation of musical styles. Unfortunately each track imitates just one style rather than borrowing and combining several ideas. What comes across is the work of a man one laser harp short of a Docklands gig.

Contact: Robert Fraxis, 0483 475826 (Woking)



DEMOCracy

Brian Marshall

What a fantastic voyage it would be to travel around this man's mind. One instant travelling along on a steady ride to techno-inspiration, then whisked off to the MOR dead-zone until a sudden rush of blood takes you on a B-52 to Schizo-county. A Brian of all trades who never gets home. Don't ever ask him for directions. **Contact:** Brian Marshall, 058479 240 (Worcs)

DVS-X

Australian industrial rave with a Russian vocalist. Only one track, 'Liberator', which exceeds six minutes in length but says everything in half that time. More tracks are needed to explore all the avenues opened up by this unusual combination. **Contact:** Michael Andre Management, 010 61 03 458 4561

24 Satori

Four ambient dance tracks and four ambient, er, non-dance tracks. The up-beat stuff isn't quite up-beat enough but clever sound sketches provide points of interest behind occasionally formulaic pop. The best is 'Little Chill' - moody, deep and less twee than the rest. The "new age" stuff is, well, new age stuff. **Contact:** Steve Gilbey, 0733 241516 (Peterborough)



Princess in the Tower
by
Tubular What



Tubular What

The poor Princess is locked in the nasty tower and Tubular What have written a song to fill her with glee and cheer. It features a competent dance backing but verges on a novelty record, with aggravating, repetitive samples from *that* telephone call featuring good ol' Di. **Contact:** Intrinsic Technology Ltd, 081 761 0178 (London)

20th Century Box

During time off from the Furniture Beetles (above), Dave Warren produces instrumentals with Chris Piper dedicated to films like *Dambuster* and *Goldfinger*. With classic tunes and corny synth lines, the result sounds like a piss-take. Given plenty of mind-enhancing drugs and a few keyboards, Barry Norman could probably do better. **Contact:** Mind Your Head Recordings, 0245 346490 (Chelmsford)



Rebus

A bad recording on computer cassette resulting in a distorted sound that could be loaded into a ZX Spectrum. The music itself is actually quite good - rave with a few novel ideas scattered among the (now) over-used samples, and an attitude screaming to get out from the mirk of distortion. **Contact:** Mark, 0742 874257 (Sheffield)



SOUNDIVISION

PROFESSIONAL SOUND AND LIGHTING SYSTEMS



Present

FOR THE U.K. AND EUROPEAN DJ COMMUNITY

'MIXING AT THE MINISTRY'

at the

★ Soundivision sales team at your service throughout the day★

Light shows and mixing demonstrations throughout the day



★ Special sales prices, deals and lots of bargains on the day★

Exclusive Soundivision/M.O.S. "Silver Edition" Souvenir Slipmats available on day at only £4.99 per pair

103 GAUNT STREET, ELEPHANT & CASTLE, LONDON SE1

— an exclusive hands-on exhibition —
WITH

Numark Mixers
Vestax Europe
Citronic Audio
Kam Electronics
(Made-to-Fade/Stanton)
Intimidation Mixers
Roland UK
Akai†
Harman Audio (JBL)
Shuttlesound (Electrovoice)

★ Beyer Dynamic†
★ H.W. International (Shure)†
★ Soundlab*
★ Ortofon (U.K.) Ltd.
★ Abstract Lighting
★ Martin Professional
★ Batmink (Lampo & Genius)
★ Optikinetics
★ NJD Electronics
★ Laser Science

★ Diamond Flightcasing Company
★ Ministry of Sound Merchandising
★ Soundivision Retail
★ D.J. Magazine
★ Disco Mirror
★ Disco, Club International

† = Subject to final confirmation
* = Represented by Soundivision

SUNDAY 17th OCTOBER 1993

2.30pm to 6.30pm

REFRESHMENTS AVAILABLE

special guest appearances by

★ CARL COX★
★ Paul (Trouble) Anderson★
★ Jumpin Jack Frost★
★ Justin Berkmann★
★ Dave Angel★

(All confirmed)

ADMISSION
£3

★ PLUS SPECIAL CELEBRITY GUEST DJ'S THROUGHOUT THE DAY★

AVOID THE RUSH AND THE QUEUE BUY YOUR TICKETS IN ADVANCE . . . TEL: 071-281-4146

OR FOR FURTHER INFORMATION ABOUT THIS ADVERTISEMENT FILL IN REN 2450



stamp

Send your letters to: Stamp,
MT, Alexander House, Forehill,
Ely, Cambs CB7 4AF.

New look good, Zoolook bad

● The new magazine looks great... a massive improvement – and it was already pretty damn good.

Just a pity you chose to put a tired old git like JMJ on the cover. No he isn't the godfather of rave, he's just an out-of-touch Frenchman with more money than talent.

Yes, I know it's only my opinion... but you're entitled to it.

Dave Beresford
Brighton

► Indeed we are, Dave, and how do you know some of us aren't in agreement with it? NL

That'll do nicely

● There is one possible source of help for Sky Jones (see Stamp, Aug '93) and that is a credit union. These organisations allow people to co-operate in solving financial problems without paying for the huge overheads of financial institutions.

They are usually organised locally – eg, around a particular housing estate – and one of their main objectives is to keep people out of the clutches of the loan sharks. I saw some information on one recently and the APR was about half that of the average credit card.

Johnny Guano
Guanochester

Bent keyboard, anyone?

● I have just completed an A-level course in Design & Technology in which my major project was to design and manufacture a remote MIDI keyboard. Due to lack of finance, I have been unable to complete either the keyboard mechanism or the MIDI interface, although I have hard wired all the controls from the rotating arm.

I am writing to you to seek advice on the possibilities of further development, with regard to companies I could write to.

Any possible assistance or further ideas would be gratefully received.

Ross Barker
Rustington
West Sussex

► Thanks for the advice, Johnny, though it seems to me that Sky has no financial problems at the present time. Only when he borrows large amounts of money which he'll have difficulty paying back will he have problems – low APR or not. At the risk of sounding like someone's parent, might I suggest he saves the money he would spend on repayments and, when he has enough, buys the equipment he wants without the added cost of interest. It's a novel idea, I know, in this credit-ridden society, but hell, it might just catch on. NL

Follow that

● You probably use keyboard tracking – or its alias 'keyboard follow' – every day. You innocently apply it to the filter to make high notes brighter than low ones, you confidently direct it to the amplifier to raise the volume of the bass octaves, and even people with a sheltered childhood use a delayed version to produce portamento.

But some of us have dark and sinister tracking desires, with strange and exotic fantasies about patch chords, culminating in an animalistic carnal craving for more, MUCH MORE!

I've tried to suppress it, but to no avail. After using a modern digital instrument for a few days, I couldn't stand it any longer – I just had to lock myself away and use keyboard tracking to modulate the LFO and pulse width on an analogue polysynth. A wavetable helped for a while. I enjoyed original sound creation



► It's a fascinating-looking instrument Ross, and one which clearly warrants the attention of the keyboard/synth manufacturers. Presumably, the tutors on your course have advised you on the subject of patenting (but if they haven't, look into this before discussing your design in too much detail with anyone).

In the meantime, if any enterprising companies or individuals would like to contact Ross, we'll be happy to put you in touch. NL

without recourse to keyboard follow on anything but the filter, but then a pretty young parameter corrupted me. Yes, I used keyboard follow to control how deeply the wavetable would be penetrated.

Then it struck me. Why should I be a secret keyboard follower? There must be hundreds of synthesists like me, poised ready to come out of the keyboard closet. Throw caution to the wind! Stand up proudly and tell the world that you want to route keyboard tracking to the LFO frequency, the LFO amplitude, the attack time, the decay time, the release time, the resonance, the number of poles, the pulse width, the key velocity sensitivity, the polyphonic aftertouch sensitivity and the envelope amplitude!

Is there a manufacturer anywhere on earth that can satisfy my desires? Are you man enough to manufacture the machine? Have you got the cash to quell my craving? Stop pussy-footing around and release a real synthesiser – I dare you.

Martin Straw
Southampton

► Dark and sinister keyboard tracking ideas? Strange exotic fantasies about patch chords? Help is available for your problems, Martin, but not from synthesiser manufacturers. NL

Yes, OK, but...

● I won't pretend I wasn't taken aback by the new look Music Technology... sorry MT, I was. But after a few moments getting me bearings, I had to admit I was impressed. In fact, I'd go so far as to say it's the most exciting-looking music (technology) magazine I've seen – and I go right back to the early days of International Musician and Sound International.

I couldn't help noticing that the increase in the number of articles has meant a decrease in the amount of space allotted to them, and hope that this will not mean any reduction in the thoroughness I've always associated with MT.

The layout, the paper and the use of colour are brilliant – in fact, the only thing I disliked was the typeface for the equipment review section, which I find difficult to read. I would, of course, also like to see more pages in the magazine – even if this means an increase in price. Any chance?

Darren Chapman
Darlington

► In line with our policy of always treating more favourably requests from those who lavish praise on us, Darren, we'll see what we can do. NL

Saints alive

● Re: Toys R Us article (August '93). I hate to disappoint the Utah Saints, who claim Sunscreen play live, but the fact is during their support tour with Jesus Jones the only thing plugged in was their DAT machine – FACT. Don't get me wrong, I love technology, but calling the 'live' singer redundant leaves me spinning a wee bit.

For a start, the Saints would have nobody to STEAL from if the live singer, such as Kate Bush and Annie Lennox, were as redundant as you call them.

In addition, we all know that these beautiful women of song outsell, and will, I know, outlive such acts – and they certainly don't worry about their albums 'crossing over'. Crossing over? From where to where, exactly? – music is music. You show your own selves up.

Red
MCA Records
London

▶ I seemed to lose your drift towards the end there, Red, but it wasn't a moment too soon.

As you're so keen on facts, let's clear a few up... No one made any reference to Annie Lennox or Kate Bush being redundant as singers. Utah Saints handed over a large proportion of their royalties for the privilege of using the Bush/Lennox samples – no theft took place. And some bands simply prefer to utilise the available technology where vocals are concerned, just as they do with drums, guitars, strings, etc etc etc...

As regards Sunscreen's use of a DAT machine, perhaps they would care to comment? NL

Raving

● This letter is a sort of reply to some of Jean Michel's thoughts in the August ish of your mag...

Hi man, couldn't agree more with you about the need to communicate with other people. You bet it's important. It's essential for survival. But I gotta disagree with you about the rave scene. Challenging the formats of 'the industry'? Who are you trying to kid? I'm not taken in by any of that jive, are you? It's not so much music, more a conveyor belt. I'm sure you get pressurised to 'move with the times', but life's a bit different down here at the bottom end of the shit heap. It's more a case of "like it or lump it, Sonny Jim, 'cos that's all there is".

Basically, I see the rave thing as an artefact of 'the business'. It seems like little more than a way of giving the tired ol' disco/dance scene a new lease of life. Surely the oompah brigade have made enough dosh to retire on by now. I point my finger at the promulgation of ready-made sample CDs aimed at turning every would-be synthesist into yet another identikit raverboy.

Do I see a production line staring me in the face, or what??? Yep, it's that ol' copycat syndrome again and again and again... I rest my case. (We could blame Juan Atkins for all of that, but it probably wouldn't be fair, fair, fair...)

Look, I'm not getting at you for not seeing it. Just pointing it out. From a worker's point of view the whole thing smells of compulsory conscription with a welter of little Hitlers (and now 'liberated' Hitlerettes) on what should or should not be, along with the usual trick questions at the review board to fuck over

anyone going for CO status. Very much a case of "do this, do that, obey orders and don't get out of line or set your sights too high, Sonny Jim".

A far cry from where I set out to get to when I dropped out of college 20 years ago. More like being hi-jacked by fascist bastards if you ask me. And about the reverb... I don't give a damn if it can simulate 1001 different environments and Arabian Nights, I'd just settle for one that works.

That life on the dole (about all I've ever known) brings a very different perspective than that of life in a chateau, I'm in no doubt, and I've got a spare pair of shoes if you wanna walk in 'em. Perfectly safe, no veruccas!

Well that's about all for now, folks! Shoes for the living, shoes for the dead. But above all... Shoes for industry!

Rory Cargill
The Invisible Band

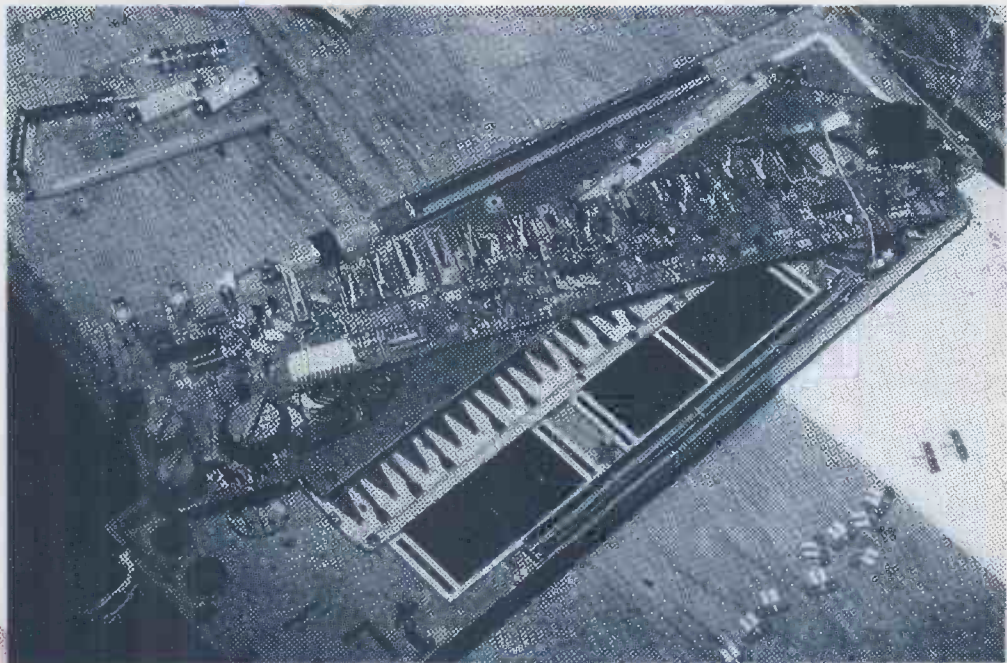
▶ Interestingly, Rory, the word 'rave' still retains it's other, original meaning.

Tell me, do they organise trips around your home planet? NL

Opinions expressed in readers' letters are not necessarily those of the Editor, who cannot be held responsible for their contents and reserves the right to abbreviate letters where necessary.

That was Then

"History is
bunk"
- Henry Ford



Great Moments In Techno – No. 4: Pete Townshend takes delivery of a DX7, 1983. He is impressed.



The E-mu Proformance /1+ – slots into a Bechstein no problem. Hardly know it's there.



Come Upstairs!

Yes folks! The altitude increasing offer is well 'ard. Come upstairs at Stix (ooerr-Missus) and see Paul. New, Second-hand and Ex-demo

Synths 'n' Samplers	Yamaha DD12 cheap MIDI pads	PC Software
Yamaha SY85 w/station	Boss DR660	Sequen
Yamaha SY35 great first buy!	Alesis SR15	Big Boss 24 track
Roland JV1000 w/station	Yamaha D720	Dr. T's XOR Librarian
Roland JV80	MIDI	Band In A Box
Roland JW50 w/station	Akai M80P	Dr. T Copyist App
Roland JV30	Phil Pies Stuff! Cheap	Dr. T Copyist DTP
Roland W30 sampler - rave on!	Amps, Monitors & Mixers	Dr. T Backscore Deluxe
Peavey DPM V3 module warm!	Roland SR-300 guitar preamp	Boom box - great fun!
Peavey DPM See + get a! coupe!	Mackie 1202 mixer	MM401 MIDI interface
Boss Dr Synth DS330 + wow!	Mackie 1604 mixer	Portman PC interface
Roland JV880 say 'r' more save!	Peavey K8300 combo	ST Software
Akai S01 sampler	Peavey K8100 combo	K1 Editor - edit your kit
Casio VZ-10M	Peavey K850 combo	Feeling Partner - "billy whizz"
Cheatek MS300 digital module	Peavey K815 combo	Neotek 3 excellent - really excellent!
Yamaha TG500 monstrous!	Torque 50w combo	Dr. T's tiger cub
Roland MKS-100 sampler module	Torque 50w at combo	Reahima matel
Peavey S-220 sampler module	Torque 100w at combo	Dr. T's Copyist App - Notation!
Peavey SX-SP11 sampler 32Mbs	Marshall 12w	Dr. T's Copyist DTP - Notation
Stereo sampling only	Marshall 150w	Amiga Software
Peavey Spectrum Bass	Phones AP150 combo	MIDI Interfaces - bog standard
Jen SX-1000 analogue	Foster 2016-16 ch mixer	Triple Play Plus! multi interface
Casio CZ3000 synthesis matel	Peavey 308s monitors HIT SHOT!	Bars 'n' Pipes - for the colour blind
Yamaha DX27 more synthesis matel	Peavey 310s HIT SHOT!	PRO24
Roland PC100 master k/od	Peavey 312 monitors HIT SHOT!	KCS V3 5 level III - crap name, great sequencer!
Roland PC150 master k/od	Yamaha K810ms standard	Boom box - Om Om Om
Korg micropreset analogue	FX Mate	Dr. T XOR
Drum Boxes/Sequencers	Peavey Univert II	Synscan FSK syncron!
Alesis D4 priority but great at	Alesis R160	SmartSync SMPPE
Casio RZ-1 sampling desktop	Yamaha R100 cheap reverb	Sternberg
Alesis R160	Roland SRV 300 33 reverb!	Cubase Lite - "steamH!"
Yamaha RMS0 wicked w/sampler	Bits 'n' Harry	PCI Card - "tesmat"
Roland RB Mk II	Roland SD35 MIDIfile player	Cubase 3.0 Atari
Roland RS	Roland FP8 piano - organic!	Cubase for Windows - matel
Roland TR66	Yamaha MIDI-2 MIDIfile player!	Cubase upgrade to 3.1!
Roland DR550	Tascam Port 03	Synthwiz's editors
Roland DR550 Mk II	Yamaha MT100 sold as seen!	Midex + 80 MIDI channels and SMPPE sync
Yamaha RY30 dance threng!		
Yamaha RY10 wild bass modul		
Yamaha D07 wacky!		

Roland, Yamaha main dealers.

Now proud to announce new dealerships for Korg, Roland pianos, Kurzweil.

We buy your old gear for cash

STIX MUSIC

603-605 Lincoln Road, Peterborough

0733 346518/52357

Open 9.30 - 6.00 Mon - Sat

MTease

'Tease me, tease me, tease me' sing Chakka Demus & Pliers. All in good time, gentlemen, all in good time. First of all, let Rohan Heath of the Urban Cookie Collective face the fax.



URBAN DEVELOPMENT

Although 'The Key, The Secret' - which has recently peaked at No.2 - is Rohan's first hit, he's been a part of the Manchester dance scene for some time. Last year, Urban Cookie released two singles on Phonogram, 'Pressin' On' and 'Lucky Stars', before the name change and a move to Pulse 8 Records. This followed stints for Rohan with Together - 'Hardcore Uproar' reaching No.12 in 1990 - and A Guy Called Gerald. Session keyboards for Yargo complete the impeccable Manchester

credentials, but he's just returned from an extensive US tour at the keys with reggae legend Eek-A-Mouse. A follow-up to 'The Key, The Secret' is due mid-October, and in the meantime the Urban Cookie Collective have started work on their debut album.

- 1 What was the first synthesiser you ever played?
"Wasp."
- 2 Who is your favourite musical pioneer?
"George Clinton/Funkadelic/Parliament."
- 3 What's the difference between Take That and Stravinsky?
"Take That don't appeal to me: Stravinsky was a genius."
- 4 What's the difference between a drum kit and a drum machine?
"You can fit one in your pocket. Guess which."
- 5 Playing live: why bother?
"It ensures you keep your ability up and keeps you on your toes."
- 6 Which record says most to you about music technology?
"Brian Eno and David Byrne: My Life In The Bush Of Ghosts."
- 7 What does the phrase 'multimedia' mean to you?
"Don't know!"
- 8 How do you react to hearing a sample of your music on someone else's record?
"Great! It shows they liked what you originally did."
- 9 What is the next piece of equipment you would like to buy?
"Roland MKS70."
- 10 Will technology become invisible?
"No, just smaller."

PC SERVICES



Computer Music Specialists

PC Services has been specialising in MIDI and music software since 1987. All programs are official UK versions, providing full support and upgrade paths. Phone for friendly help and advice on MIDI, music software and sound cards. Demonstrations by appointment.

PC Drummer £49 for Windows

Having trouble with your drum tracks? PC Drummer provides an effective way to produce patterns and rhythm tracks for inclusion in your songs, just by clicking on the drum pattern grid. Outputs standard MIDI files for importing into other MIDI software. At this price every MIDI setup should have one!

Logitech SoundMan 16 & Digital Soup £249

High quality 16 track digital recording studio system. 16 bit sound sampling giving CD quality. Mix up to 16 .WAV files down into the stereo output.

Sound Card MIDI £29

MIDI adapter kit for most sound cards, with MIDI in, thru & 2 outs, includes Winjammer shareware.

SongWright £99

Complete music processing program for producing printed scores. Includes part extraction, transposition, lyrics and guitar chords. Compatible with MIDI and Soundblaster. Prints to dot matrix, Deskjet & Laser printers.

MIDI Software etc.

PC Jukebox	£30
Superjam	£99
Cakewalk Pro Windows	£229
Cubase Score	£399
Gallant Sound Card	£79
PC MIDI Card	£69
Roland SC7 Sound Module	£235

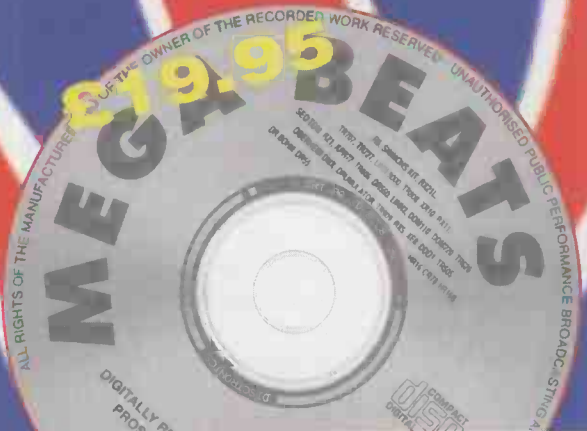
Sales hotline ☎ 081-658 7251

All prices exclude VAT and carriage. E&OE.

PC Services, 78 Beckenham Rd, Beckenham, Kent BR3 4RH

The best value in sampling

from both sides of the pond



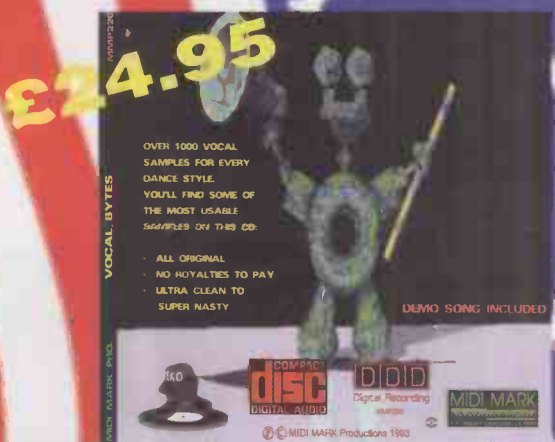
MEGA BEATS SAVE £20.00 ON RRP
 Mego Beats is... The only sampling C.D. which offers the comprehensive range of 30 of the best drum machines sampled in their original formats. Yes, over 700 original classic sounds like the TR808 & 909, Dr Bohm, RB, Yamaha, Akai, XR etc etc. This best selling C.D. which has already been used for top selling records and normally retails for £39.95, is now available while stocks last for only £19.95.
 Yes - an absolute bargain! £19.95



ASTRO GLIDE 202 SAVE £18.00 ON RRP
 This CD has explored the MC202 to new thresholds, creating sounds previously not associated with this machine. Take yourself to new heights of musical expression. Astro Glide normally retails for £37.95 and is now available for only £19.95 while stocks last

Danger 2
 available now
 £39.95

It's Here



VOCAL BYTES 1070 ORIGINAL VOCAL SAMPLES
 Produced by Eric Wikman and Midi Mark Productions. Great for any dance music like House, Rap, New Jack, R&B, Techno, Funk and Trance. We hired 12 singers and rappers to record these vocals while listening to some dance tracks. The vocals were recorded directly to DAT and edited in Sound Tools. Also included are Vocoder, Harmoniser and Computer Generated vocals. This collection is awesome and you may never find a CD like this again. No additional fees required to use these samples in music. Get yours now!



Kikin' & Livin' HOT from the USA
THE ULTIMATE IN DANCE COMPOSITION
 Featuring the sounds your parents warned you about: ready mixed breaks, constructed grooves, vocal dance phrases, floor moving basslines, liquid acid loops, urban street FX & a special bonus section compiled by EKO Productions. Featured: The latest rave machines including: TR808/909/606, Moog Prodigy, Juno 2, SH 101, TB303, MC202 as well as the inspiration of effects these machines have been exploited to new limits!! Why pay more for celebrity endorsements? At £24.95 this CD will stretch your imagination, NOT your pocket. This CD is awesome, high octane, energy efficient & absolutely crucial for all forms of dance construction - featuring 1200 samples/74 minutes of unheard originality.
 IF YOU CAN ONLY AFFORD ONE CD TODAY - THIS IS IT!

Access & Visa welcome. Telephone your order on 0424 436674 or complete the coupon for postal orders. Limited stocks, so order now to avoid disappointment.

Frederick House, 211 Frederick Road, Hastings, E Sussex TN35 5AU. Please complete in block capitals making cheques/postal orders payable to "Patchworks" and send to the above address.

Overseas: Please add £5.00 for express despatch and carriage.

- Please send me
copy(ies) of **Mega Beats** at £19.95
copy(ies) of **Astro Glide 202** at £19.95
copy(ies) of **Vocal Bytes** at £24.95
copy(ies) of **Dance Construction** at £24.95

Name.....
 Address.....

 Postcode.....Tel No.....



All trademarks and trade names are the property of their respective owners

grief

*Plagued by technical and musical conundrums?
Bring out your dead! Bring out your dead! Write
to Grief, MT, Alexander House, Forehill, Ely,
Cambs CB7 4AF.*

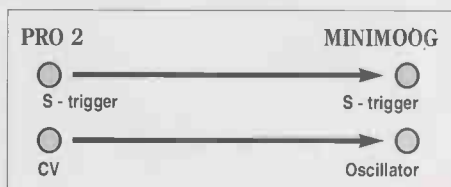
Q Some time ago I acquired a second-hand Minimoog which I connect to my MIDI setup via a Pro 2 CV/Gate converter from Kenton Electronics. This drives two separate synthesisers on different MIDI channels.

My MIDI keyboard/sequencer plays the Minimoog but not the same as when playing the Minimoog keyboard. The keyboard tracking switches don't have much effect and the glide doesn't work at all via MIDI.

Before being able to play the Minimoog I have to 'align it' against the MIDI keyboard by playing, for example, C1 on the Minimoog followed by C1 on the MIDI keyboard – or else a different pitch may be triggered, transposing the whole sound.

Is there a way of playing the Minimoog via MIDI using the Pro 2 just as if it were being played from its own keyboard? Having had some electronics experience I'd be able to carry out the work if you tell me how.

The Minimoog is connected to the Pro 2 as follows:



I also tried the Aux 1 and Aux 2 outputs with the Filter and Loudness inputs on the Minimoog and it worked okay. But the most important thing is making it work like the Minimoog's own keyboard – so controlling the VCF and VCA isn't my main concern.

I also have a Roland SH-101 which is connected to the second output of the Pro 2. The functions seem to work fine except one: by using one of the Aux outputs to control the Modulation input of the SH-101 (Kenton Electronics sells a minor modification for the SH-101 which adds external modulation and VCF control inputs) I only get modulation for a short while so I only get vibrato for half a second or so. What's wrong?

Hallvard Tangerass
Oslo, Norway

A The Minimoog has many shortcomings in the way that it implements the control sockets – you seem to have discovered most of them! Here's a list: The

1. CV input does not drive the keyboard tracking switches.
2. CV control has been placed after the glide circuitry so this won't work.
3. The voltage sent to the Minimoog from an external source is added to the current keyboard note. Bad enough, but this has a knock-on effect – see 5.
4. Even if the Minimoog has been modified to get around the problem in 3, zero volts plays an F rather than the more usual C.



Kenton Electronics will adapt the Minimoog for MIDI control. You can't, as far as we know, make the same adjustment to Gary Numan

5. The keyboard on most synths – including the Minimoog – has a circuit which 'remembers' the last note played (so that it knows where to glide from). However, the note voltage is stored in a capacitor which gradually discharges over a period of minutes so the voltage added to the CV converter output is also affected and this can cause a drifting effect.

6. It is not exactly the 1-volt-per-octave standard.

Kenton has fitted 'proper' control sockets to Minimoogs but the process is quite complex – it's not just a case of adding a few wires. The company would be happy to send you details but says it's not really in a presentable form.

As you have pointed out, Roland made a far better job of the control sockets on the SH-101. Your problem with the modulation sounds as if you have the Aux pot set too high. The one driving the modulation must be set to minimum (ie, fully anti-clockwise), as overdriving can cause the modulation to stop. If that doesn't solve the problem, check your installation. Kenton has fitted the modification to many SH-101s without problem.

And if all else fails, you can reach Kenton in the following ways – Tel: 081 974 2475. Fax: 081 974 2485. IW

Q I'm a relatively young hi-tech muso interested in dance, ambient and new age music. Until recently I had just been using my old Amiga A500 to sequence a couple of synths and an 8-bit sampler (you know, the internal thingy) but now feel it's time to get more serious. Perhaps you could answer some questions I have...

1. I have composed several pieces on the Amiga that I wish to keep. Can I send MIDI data from my Amiga while it plays to a Mac Plus and get the Plus to record in Cubase?
2. Does the Cheetah SX-16 sampler have digital outs? Can you expand it to more than 2Mb? Why do people slag it off when it seems to have a great-looking spec? Could an S1000 load and play SX-16 samples? Can I get sample editing software for it on the Mac Plus?
3. When you change patches on the Alesis Midiverb does it click? In other words is it a smooth progression from patch to patch?
4. Are there Mac editors/librarians for the Kawai K1, Roland Alpha Juno II, Roland SH101 (only kidding!), and Alesis Midiverb?
5. I have a view to expand my home setup and I really like the Mackie 1604 mixer, but at £899 it's a bit steep. Could you recommend another mixer with roughly the same spec?
6. As I can't afford an LC III or Quadra, can you see me running into any problems using a 68000-based Mac Plus with 4Mb of RAM and a 40Mb hard drive? I'm a bit concerned about speed as the Plus tends to slow down screen updates when using big applications. Would the machine's processing capability pose any problems for Cubase?

I know there are a lot of questions but I fear I will be totally lost if you cannot answer them all. It's a big step I'm making and I don't want to make any mistakes! Thanks.

Bryan Ross
Glasgow

A Well, Bryan, m'boy, that is a lot of questions. Let's hope we can squeeze in the requisite number of answers...

1. You don't say what Amiga sequencer you're using but as long as it supports MIDI Clock then yes, you can record your songs on Cubase. You could also transfer data via Standard MIDI Files but you'll have to get a DOS disk reader such as Messy SID or Cross DOS for the Amy, and Access PC or DOS Mounter for the Mac – unless you want to fiddle about with Apple File Exchange.
2. No, the SX16 doesn't have digital outs; no, you can't expand it to more than 2Mb and no, I don't know why people underrate it. Perhaps it's because it's a fairly basic machine which had reliability problems and was a reasonable rather than outstanding performer. But it can play stereo 16-bit samples and it's quite good value for money. As regards S1000 compatibility – Akai machines cannot play SX-16 samples, but the SX-16 can play samples recorded on an S1000. It does support MIDI Sample Dump standard so you should be able to use it with a generic sample editor such as Steinberg's Avalon – but I have heard of problems trying to download samples from an SX-16 in this way, so no guarantees, I'm afraid.
3. Changes from some patches are smoother than changes from others. Try it and see.
4. There are few dedicated editors for the Mac, but if you have a lot of synths a

universal editor such as Opcode's Galaxy is probably your best bet. Contact MCM (081 963 0663) for details.

5. You generally get what you pay for - even in the music biz. Mackie mixers are generally quoted as being 8-10dB quieter than those of a similar spec/price. See what you can haggle your dealer down to. He may have a part-ex or ex-demo machine he can do at a better rate.

You could look at the Mackie 1202 with an RRP of £355, but of course, it doesn't have all the 1604's facilities. That said, Marcus Studios in London have just bought one to record vocals.

6. Which Mac to opt for? Weeeeell, the Plus is really rather long in the tooth now and all new program development is concentrated on the 030 and 040 processors (even though the developers will have an eye to backwards compatibility).

Most new progs are developed for use with System 7 and I'd hate to use that on a Plus! The latest versions of Cubase will run on the Plus and SE but Steinberg don't recommend them. 'Fraid I couldn't recommend one, either. But keep your eyes on Mac prices because Apple reduces them every week. The latest blitz offers an LC II 4/80 with a colour monitor for £699.

I'm afraid my advice to people with a (very) very low budget is to save until they can afford a reasonably-spec'd computer. If you're really strapped for cash, why not check out the Atari STs? They are cheap (particularly second-hand) and have a greater range of music software than all the other computers put together. This includes Cubase and lots of individual instrument editors. But the sooner you get rid of the A500, the better! IW

Q Please could you give me details on how to make my own fanzine or magazine? Also could you have some of my fave bands in your magazine, such as Talk Talk, OMD and New Order, and the instruments they use?

Trevor Anveyingeld
London



OMD (1986),
New Order
(1989) and Talk
Talk (1986) -
Trevor's faves.

A Your own magazine? You're not going to launch a serious rival to MT, are you? If so, we're not telling you how. But if it's a low-budget fanzine you're after, all you need is a typewriter, a stapler, scissors (for stealing photos from magazines etc.) and access to a photocopier. Many a great punk fanzine was launched by these means alone. Then you can get a cult following, invest in an Apple Mac with QuarkXpress software, and sell-out to a multinational publishing corporation. Finally, take over a national daily, embezzle the pension fund and jump off a yacht. Easy.

Meanwhile, turn to page 32 to catch up with Paul Humphreys and Martin Cooper, late of OMD. Further information on the bands you mention can be gleaned from our back issues, available from Lisa Watts, Mail Order, Music Maker Publications, Alexander House, Forehill, Ely, Cambs CB7 4AF. Issues are £2.50 each including p&p. Try the following: OMD - Music Technology December 1991 and December 1986, Electronics & Music Maker June 1984 and December 1981; New Order - Music Technology April 1989 and Electronics & Music Maker March 1985; Talk Talk - E&MM March 1986. PW

MIDI LIGHTS



Fully automatic lightshows from a MIDI sequencer, keyboard with a sequencer, or Standard-Midi-Files

- Simple to use. MIDI in - Lights out. No need for fader packs or mixers
- Controls up to 8 powerful 300 watt bulbs
- Easy programming on a sequencer
- 80 preset scenes including chases - accessed by program changes
- Lamp brightness controlled by velocity
- 64 fade steps ensure a 'flicker free' operation unsurpassed at this price
- Large 'mimic' LED's for programming or editing without connecting lamps

The LITE SHOW
Integrated MIDI-to-Light controller
£199.99 INC. VAT

FROM SELECTED MUSIC SHOPS
For further details and dealer location contact:



BCK Products
136 Hornchurch Road, Hornchurch, Essex RM11 1DP
Telephone 0708 448799 FAX 0708 446765
Trade and international enquiries welcome

PRO MUSIC



☎ 0284 765765
OR
0284 725271

SOLOIST MIDI SONGFILES

ORDERS
DESPATCHED
WITHIN
48 HOURS

BEST SELECTION OF SYNTH SOUNDS

THE CLOSEST YOU CAN GET TO THE ORIGINAL

OVER 800 TITLES ALWAYS AVAILABLE FOR:

ATARI ST, PC, ROLAND MC50/500MKII, SD35, MV30, KORG 01/W/FD, YAMAHA, MDF2, ETC.

LATEST INCLUDE TITLES FROM STING, ERIC CLAPTON, MADONNA & MANY MORE!

(Minimum order - 4 songs)

£5.95
Inc. VAT

CALL NOW FOR OUR LATEST CATALOGUE

ALSO AVAILABLE

VIDEO, AUDIO & TECHNICAL CATALOGUE

Large selection of tutorial videos & books including

'The Complete Cubase Handbook' and 'Getting The Most Out Of KORG M1'

Great value at £24.95 each.

Karaoke cassettes & videos and MIDI song packs including NEW STAR MIDI - 8 songs with full arrangements and full printed lyrics ONLY £8.99

ROLAND, VALHALA, VOICE CRYSTAL, PRO REC & SONGWRITER (ATARI SELF LOADING DISKS)

ALSO NEW!

GREAT ORGAN SOUNDS - VALHALA ORGANISER SERIES

NOW AVAILABLE:

KORG 01/W FD - DISK £29

SCREAMIN' B3 ORGANIZER

ROLAND D5/D10/D20/D110/D50 ROM £45

KORG M1 - ROM £49

NEW!

FOR ROLAND INSTRUMENTS WITH 'GS' MARK:

STYLE DATA ROM CARDS FROM THE 50's & 60's TO LATIN - £64 EACH
CALL NOW FOR DETAILS!

PRO MUSIC

Dettingen Way,
Bury St. Edmunds,
Suffolk IP33 3BR

Call 0284 765765 for enquiries or 0284 725271 between 9am and 5pm.

For orders please have your credit card number and expiry date ready or post your order enclosing a cheque or postal order.

EUROPE'S LOWEST



turnkey

We are authorised agents for every major brand, and as such, we can offer an unbiased and objective assessment of products from an end users point of view having worked with the product ourselves. Our breadth of product coverage from MIDI to tape makes us the number one package specialist and our system based approach pledges us to supplying you with a working solution to include all the necessary accessories and peripherals right down to installation and training in your studio if you wish.

Although our product range is probably Europe's widest under one roof - having fifteen full time demonstrators enables us to train them in depth on particular products. (you've probably dealt with stores who know little about what they sell but we're confident that if you have a question or a problem using your equipment, we will have someone 'in house' who will have the answer). We will never tell you to '...ring the manufacturer'.

We are now the U.K.'s largest music dealer for most of the products we sell (ask the manufacturers). In practice this means that our prices are the cheapest, often by a substantial margin. More importantly our products are backed up by a staff of over 25 including engineers, on hand long hours to provide a quality of after sales service that stems from almost 40 years serving Britain's leading music professionals. Put simply we understand that the equipment you purchase from us is used to produce music, often in a commercial situation, and our first priority is to keep you working at all times.

TRAINING
We will train you in YOUR studio. Over 85% of our clients surveyed said they achieved 'the greatest increase in productivity when trained on their own studio system. Our tutor looks at your equipment setup and then puts together the appropriate training course-work to suit your needs. We also offer a range of classroom type courses on a variety of topics e.g. Basic Multitrack, Studio Techniques, MIDI, AV

24 HOUR COURIER DELIVERY
0% FINANCE BY MAIL / IN STORE
VAT FREE EXPORTS A SPECIALITY
PRODUCTS 1ST OR MONEY BACK
LEGENDARY PRICE SMASH™ POLICY

PART EXCHANGE
We realise that it is often necessary to sell your old gear before buying new gear. At Turnkey, we aim to make this process as trouble-free as possible. Our trade-in prices are around the best you'll get from a music-store, and we operate a 'nothing refused' policy in store. For a no-nonsense quote, simply bring in your equipment, preferably with the original packaging, leads and manuals, and we'll offer you a best price.

8 & 16 Track

In true Turnkey 'Hands On' tradition, all the popular desks and recorders are on permanent demo. Don't take the so called 'advice' of the cardboard box shifters; - Choice of EQ and Noise Reduction for example is highly personal, features should be carefully compared and specs are often deceptive. Please come and listen for yourself.

TECHNOLOGY JUST ARRIVED & AVAILABLE NOW ON INTEREST FREE CREDIT 0%
Alesis adat, BRC & SRC. Alesis X2 desk. Allen & Heath GS3 desk.



SOUNDRAFT SPIRIT AUTO £POA
The quality of the SPIRIT desk is already legendary. Now SPIRIT AUTO gives you professional studio automation at a home studio price. Fader automation is provided for every channel with mutes for both monitors and channels. Assignable software groups are also available through Stenberg's excellent automation software which gives graphic controller editing as found in Notator etc. - and also doubles the fader resolution. Available Now.

Soundcraft SPIRIT FOLIO - in stock

FOSTEX R8 & 812 EIGHT BUSS DESK + extras
£2199 NEW BOXED

Sells the other 8 tracks 10 to 1. Dolby C first choice for narrow gauge multi-track. Used with ground-breaking MTC interface you control tape transport from MIDI sequencer. We've pioneered this interface and are experts in the field. 812 console is modular, MIDI mute ready, has full bar-graph metering and UK designed EQ.

ALESIS ADAT (BRC here!)

WHICH DIGITAL 8 TRACK?

or **TASCAM DA88**

MODEL	PRICE	MODEL	PRICE
ADAT ADATs available	Tascam T8R8	POA	
Acad A11 Dig I/O in stock	Tascam 2385	£1399	
DA88	Instock	Tascam MSR16	POA
A&H GS3	£1900	Fostex E16	£2699
SECK 24.2 new	£699	Fostex G16S	£3999
Series V 1882	£549	Fostex 2016 16/2	£275
Proline 24016	£1199	Fostex 812 new	£749
Fostex R8	£1340	Fostex 820	£1199
stax A8 sh	£499	Mackie 1604	£10west

turnkey PRO
At Turnkey we've been building studios for almost 15 years on yachts, in attics, basements and even in a castle. In that time we've learnt a thing or two and the experience is put to good use planning, designing and installing each facility. If you would like to visit us, 'Studio One', downstairs at Charing Cross Road, features: the latest products from Soundcraft - digital and analogue 24 track tape • Akai, Roland and Apple Macintosh based hard disk systems • consoles from Soundtracs and Tascam, and a choice selection of outboard from classic Urei and Drawmer to the latest Lexicon. All in a relaxed working environment right in the heart of town (a factor appreciated by our London based clients when a piece of equipment goes down at some unusual hour). Please call our Pro-sales department to arrange an appointment 'at our place or yours' or just drop in...the coffee's always hot. Ask for Spike Burridge, Nick Thomas or Rupert Pfaff.

Soundcraft Sapphyre

EX-DEMO DESKS (inc VAT)	Model	Price	EX-DEMO DESKS (inc VAT)
Soundcraft Delta 8	20:8	£3399	
Soundcraft 200 Deluxe	24:2	£2499	
Soundcraft 6000	36:24:24 pb auto	£8999	
Allen & Heath Sabre	32:16:16	£6499	
Studiomaster Proline	24:8:16	£1199	

DIRECT to Disk

Our digital suite is up and running at all times featuring all the leading edge technology. We demonstrate and support applications from AV sound effects/foley editing, and stereo mastering/12" remk editing, through to hard disk multitrack integrated with MIDI. We are the natural choice for any Mac based system being fully Apple authorised. (99% of pro audio dealers are not) Call in or make an appointment with Nick Thomas.

digidesign main dealers

NEW SOFTWARE UPDATE POA
for Akai DD1000. Call for info.

AKAI DR4d £1599 NEW BOXED

Exciting new 4 track CD quality hard-disk recording system at a staggering price. This product is perfect for those wanting a simple system which doesn't take ages to learn. A computer is NOT required, thus reducing the cost significantly. Also, backup is to DAT... so there's no need to buy expensive tape streamers etc., which are necessary with some other systems. This is a winner!!

digidesign Session 8 £great

A breakthrough in direct to disk recording! The new Session 8 provides 8 track hard-disk recording running on the IBM® compatible PC. (you'd be amazed how cheap modern PCs are!) Built-in digital mixing with EQ, and SP/DIF interface on entry level model, and AES/EBU on XLRs with pro version.

DAT

JVC XD-Z505 £499 NEW BOXED

1-bit 64 times oversampling • digital I/O • long play mode • all sub ID codes

NEW AND USED:	Model	Price
	Kenwood DX7	£499
	Awa HDS100	£399
	Sony DTC-670	£499
	HHB Pro 1	£879
	Sony TCO D3	£499
	Denon DTR80P	£575
	Tascam DA30	£1095

CASIO DA7 £499 NEW BOXED

Identical to the £870 TEAC DAP-20 except for the mic inputs. Great sounding machine, gold plated connectors. The best spec portable at the lowest price, is the only logical choice. Features sampling rates, 48, 44.1 via coaxial digital ins / Outs on gold plated connectors for superior sound quality • LCD display • includes rechargeable battery, charger / mains psu and carry case • R.R.P. £599 Limited stocks remaining. Hurry

EFFECTS

EX DEMO • CASH REBATES • SECOND	Model	Price	
Art IEO Midi EO	£199	dbx 163xcomp new £189	
ART Multiverb LTX	£159	DtechVocalist new £749	
ART SGX-LT new	£199	DtechVocalist II new £699	
ART DRX2100	£299	Drawmer DS201	£285
Quadraverb+	£299	Drawmer DL241	£399
AlesisQuadverb GT	£349	Drawmer LX20	£219
Alesis 3630 new	£229	Ensoniq DP14	£POA
Alesis MEQ230	£185	LA 4x4	£204
Alesis microverb3	£149	Lexicon LXP1 & 5	£399
Ale MIDIVerb3 new	£249	Lexicon LXP15	£799
Boss SE50	£239	Yamaha LMP700	£399
dbx boom box new	£299	Yamaha FX550	In stock
dbx 266 comp	NEW	Zoom 9000 4+psu	£259
dbx 393k gate new	£249	Zoom 9120 new	lowest

Zoom 9030 multi-effects £299
Up to 7 great effects at once

VISCOUNT STUDIO MULTI-EFFECTS

When our product specialists first heard the prices on this new range of multi-effects, they were sceptical. A brief listen, however, quickly revealed the strength of Viscount's custom VLSI technology. In key departments like dynamic range, and signal to noise, they out-perform units at twice the price. But most impressive are the algorithms themselves - Developed in Europe by a team of leading musicians to suit current up-front mixing techniques, they are characteristically smooth and free from the harsh, grainy overtones associated with many of today's budget units. Reverbs for example are clean, natural, and spacious.

Add to this, a vast range of effects and flexibility of programming unheard-of at the price for a truly remarkable product.

And we're confident enough to say that if you are not fully satisfied return the unit to us within 5 days for a prompt and courteous refund.

EXF1 £239

True 16 bit digital, stereo in/out, 32 character back-lit LCD, 95 db dynamic range, THD 0.02%. Full MIDI control (in/out) Excellent sound quality, shimmering reverb, full editability, up to 8 simultaneous effects - reverbs, chorus, phasing, flange, delays, echo, distortion, pitch-shift 2octaves, compression, noise suppressor, 128 presets (105 user spares) space saving half rack design (rack mount kit available), switchable 20/44 db operation, 2 footswitch inputs, peak clip and MIDI activity LEDs

ART MULTIVERB SE £349 NEW BOXED

24 bit, 20 kHz bandwidth, 90dB dynamic range. 50 effects, up to 4 at once. Control of up to 8 parameters over MIDI. offer breaks all previous limits. No real competition! R.R.P. £499

ART Multiverb LTX 250 great £199
programs up to 3 effects at once

BBE 462 PROCESSOR £299

BBE 362 PROCESSOR £189

To insure the frequency components of any audio signal reach the listener in the proper relationship, the BBE process uses phase correction for the 3 frequency bands. It does not add artificially created harmonics of any kind. Both units are stereo and offer Definition and Lo-control adjustment, while the 422 has separate controls for both channels.

EXF2 £139

Same processor as EXF1. 49 presets made from 7 banks of 7 sounds: reverb, delay, chorus/flange, phase/pitch-shift, multi, guitar1, guitar2. All the convenience of a great machine with the advantage of editing the most useful parameters e.g. reverb time, delay time, chorus depth, etc. Footswitch control, 20V-4 db operation, 95 db dynamic range, 0.02% THD. Peak clip LED. Ideal for project studio users. Up to 6 effects at once, half rack size (rack mount kit available), dedicated pots for input, output, mix and parameter edit. Only two button pushes required to select any effect.

DJ producer

TECHNICS SL1210 industry standard record deck inc cart. POA

40% OFF • SECOND HAND • EX DEMO • UP TO	Model	Price
	Gemini PMX12	£156
	Vestax PMC-05T	£236
	Gemini PMX15	£210
	Vestax PMC-10-II	£299
	Gemini PMX2000	£340
	Vestax PMC-15	£443
	Gemini PMX2500	£370
	Vestax PMC-20SL	£345
	Gemini PMX3000	£399
	Citronc MasterMix	£485
	Gemini PMX3500	£420
	Citronc SM150	£399
	Gemini PDM1008	£350
	Citronc SM250	£299

071-379 5148

ax 071 379 0093

114-116 Charing Cross Road, London WC2H 0DT

Opposite Foyles and 100 yards from Tottenham Ct Rd tube)

A Division of **ARBITER** Group PLC

DISCOUNTED



MIDI hardware

turnkey SCOOP PURCHASE EXCLUSIVE

AKAI S950EX PACK £999
NEW BOXED

Package includes:
• 750k RAM expansion
• Time & Space CD with 1000 samples
• 50 floppy disks
• 8 way loom

Industry standard machines and the best selling sampler ever. 11 outputs • Timestretch • Exchange disks with S1000 • 48 kHz sampling rate • Huge library available • 1.5 Meg RAM • SCSI & SPDIF option cards • Full synthesis features. No other sampler gives all these features at anywhere near this price. Turnkey galactic exclusive. Hurry while stocks last!!!

FATAR STUDIO MASTER KEYBOARDS

The 48 & 61 synth-action keyboards offer full-size velocity sensitive keys (128 levels) with a firm but light action. Keys are designed for minimum flex and positive seating.

4 OCTAVE STUDIO 49 £119 **5 OCTAVE STUDIO 61 £199**

FATAR's flagship models feature a fully weighted and counter-balanced action keyboard with 88 piano depth keys. Shut your eyes and you're playing a concert grand! Black keys have ebony finish. Both models have a split capability, and the PLUS also has pitch & mod wheels, 3 separate outs, adjustable key-response curves, and assignable footswitches and pedals. We feel that these keyboards are the best we have played. If you disagree, we will give you your money back.

ROLAND PADS

5 pads with adjustable velocity sensitivity. Connect to any keyboard / module with built-in drums and record expressive drum tracks into your sequencer. Each pad can be assigned to any MIDI note number. Play with hands / sticks, great live R.P.P. £175

88 NOTE STUDIO 90 £599 **88 NOTE STUDIO 90A £699**

FUNCTION JUNCTION PLUS

16 x 16 Programmable MIDI Patchbay

£239
NEW BOXED

FUNCTION JUNCTION

8 x 8 Programmable MIDI Patchbay

£169
NEW BOXED

Nobody has ever built a more complete MIDI patch bay, and with our very special offer, the best is also affordable. The standard model is 8-in, 8-out, the PLUS is 16-in 16-out. Both have a unique 8-way merge facility. Additional features include: Zoning, MIDI filtering, transposition & delay, velocity offsets, scaling, compression, expansion, switch and cross-fade, Controller remapping, MIDI "panic" button provides complete system reset. Up to 64 user-patches can be memorised, and recalled using MIDI. This unbelievable offer will end soon!!!

ROLAND MV30 Sequencer / Synth

£699
NEW BOXED

The Roland MV30 merges synthesis and sequencing in one compact unit. The synth section is a D70 except with 30 note poly, 8 part multitrack - the same powerful TVF filter with resonance. 6 seq. cuts. It accepts the SN110 series cards. The sequencer has 56,000 and 16 multi-limbral tracks with a great pattern arrange mode and triggering of sequences from MIDI keyboard. It also has comp-ma - full volume, pan and effects automation in real-time from its 8 built-in faders. Includes FREE ORCHESTRAL and RHYTHM SECTION PCM cards while stocks last. This offer is based on limited stocks - Hurry before they all sold!!! R.P.P. £1690

VINTAGE

Despite the furious pace of technological upgrades, the world's leading musicians still look to the same classic synths for the sounds they need. Analog technology is too expensive to build nowadays, so the second-hand market is the only option. Turnkey takes the mystery and risk out of acquiring a classic synth. All the products in question are guaranteed, and each one represents a sonic legend that will last for ever. Offers subject to restricted availability!

HUGE MOOG SHIPMENT SOON

STUDIO hardware

UP TO 40% OFF • CASH REBATES • SECOND

Alesis RA100	£259	JBL Control 55-new	£319
XRI XR300	£199	JBL Control 10	£349
RoVox K77 mint	£99	JBL 4206 new	£275
JLCooper PPS100	£149	JBL 4208 new	£325
JLCooper PPS2	POA	JBL GS115	£199
MIDIMan SmaSyn399	Shure SM57	lowest	
Fostex MT01 new	£199	Shure SM55	lowest
JBL Control 1/1+ LOW	YAMA NS10M new	£239	

FREE INSTANT CREDIT CARD • **FREE DELIVERY** • **FREE 2 YEAR WARRANTY** • **FREE 24 HOUR SUPPORT**

XRI Systems XR300 sync unit
Popular and easy to use **£199**

40% OFF SECOND HAND & EX DEMO • UP TO 10% OFF NEW

SYNTHESISERS

Boss DS30E	£299	Akai S1000	£1899
Ensoniq SQ1-32	£999	Akai S01	£649
Ensoniq SQ2-32	£1099	Akai S950	£849
Ensoniq SOR	£449	Roland D70J/used	£1299
Ensoniq ASR10	£1899	Roland S750	BEST
Ensoniq KS32	EPOA	Roland SP700 dmt	£1599
Evolution SVS1	£139	Emu EmuX new	DEAL
GEM S2 new	£1399	Ensoniq EPS16+	£399
Kawai K-11	£889	S950 750k card	£79
Kawai G-Mega new	£449	S1000 2M cards	£129
Kawai KS-99	£189	S1000 8 mag card	£299
Kawai Spectra	£299	ProteusMPS+	POA
Korg M1	£799	Proteus/1	£549
Korg WaveStation	£1099	Proteus/1 orch	£649
Korg WaveStnAD	£1099	Proteus/1XR	POA
Korg WaveStnSR lowest		Proteus/2	£849
Korg01Wpox	POA	Proteus/2XR	POA
Korg01WfDnew	POA	Proteus/3	£549
Korg O1W	POA	Vintage Keys	£799
Korg O1RAW	£799	Performance	£269
Korg O3RAW	£599	Performance+	£299
Korg OSRAW	In stock	Roland SC55 new	£399
Kurzwelk2000	DEAL	Roland SC155 new	£459
Overheim M1000 at last		Roland CM64	£279
Peavey Spectrum BassII		Roland CM500	£379
Roland MKS900	£1999	MOTHER KBD5	£349
Roland JD600	£1299	Kawai MKey new	£299
Roland J090	In stock	Roland PC150	£149
Roland JV80 mc 14 Meg		Roland A30	£349
Expansion new	£459	Roland F78	POA
Roland JV35	POA	Yamaha RY10	£199
Roland JV80	POA	Alesis SR16	£199
Roland JW50	£999	Alesis D4 new	£299
Wardorf M1000 new	£279	Boss DR660 new	£279
Yamaha SY99	£1995	Chestnut MD16	£99
Yamaha SY65	POA	Emu ProCussion new	£549
Yamaha SY35	£549	KORG S-3	£279
Yamaha TG500	£849	Roland R8 Mk2	£599
Yamaha TG1000 new	£279	Yamaha RY30 new	£349
Yamaha Y10	£189	Yamaha RY10	£199
Yamaha OV20	£349	Yamaha RM50	£525

SAMPLERS/PLAYERS SEQUENCERS

Akai CD3000	£3200	Alesis Datadisk	£325
S3000 S2800 S01EPOA		Kawai Q55 new	EPOA

Europe's Largest Emu Systems dealer

Enquire about Ellipix, Library, EmuXt, Proteus, Vintage Keys etc.

PEAVEY in CENTRAL LONDON

0% IF CREDIT

EVOLUTION EVS-1

All EVS sounds have CD clarity (16 bit 44.1 kHz). The EVS-1 is several different synths in one. A sample-player, a full analog synth (subtractive), and various additive synthesizers. (Phase Modulation (VZ1), Ring Mod(D50), FM and WM - All at once. Replace rack full of modules live analog strings, raw-power bass-lines, exotic digital timbres etc. • 8 part multi-limbral • never less than 16 notes poly • power-drum kit including Latin sounds • FREE editor/librarian for Atari ST or IBM compatible computers, 19" rackmount. Strictly limited qty. R.R.P. £299

SOUND CARD clearance • call!

ROLAND MV30 Sequencer / Synth

£699
NEW BOXED

The Roland MV30 merges synthesis and sequencing in one compact unit. The synth section is a D70 except with 30 note poly, 8 part multitrack - the same powerful TVF filter with resonance. 6 seq. cuts. It accepts the SN110 series cards. The sequencer has 56,000 and 16 multi-limbral tracks with a great pattern arrange mode and triggering of sequences from MIDI keyboard. It also has comp-ma - full volume, pan and effects automation in real-time from its 8 built-in faders. Includes FREE ORCHESTRAL and RHYTHM SECTION PCM cards while stocks last. This offer is based on limited stocks - Hurry before they all sold!!! R.P.P. £1690

COMPUTER

Personal Computers now form the heart of every MIDI Studio, and have been our core business for some years. Experience in this area differentiates the serious dealers and we are specialists in each of the three main areas. We stock over 50 music titles and demonstrate 30 of these regularly. We are fully Apple Authorised - 99% of music dealers are NOT.

DIGIDESIGN SPECIAL DEALS

LC II and LC III colour systems

Colour Classic 4/80 + MusicShop + interface £999
LC II 4/80 + Colour Monitor + Cubase + interface £1299

Apple 12" Colour Monitor £199
Apple 17" 4" Portrait Monitor (grey scale) £375
Macintosh Plus 2.5 Meg (ish) £299
Macintosh Plus 540 (one dem only) £849
Macintosh Powerbook 140 4/20 (one dem only) £899
Apple Laserwriter LS (one dem only) £375

MACINTOSH MUSIC SOFTWARE

Cubase Mac lowest UK	E2 Vision (#1 seller)	£139
Cubase Score	E2 Starter Kit	£199
Cubase Audio	Final 2.6.3	£799
Ballade for Mac	MusicTime Mac	£199
Emagic Notator Logic POA	Mac interface	£65
Performer 4.0	Trax Mac	£69
Encore Mac	POA	£299

PC MIDI STARTER KIT ONLY - £99

Contains Trax and a PC MIDI interface

SOUND QUEST

Specific Editor and Librarian packages
MAC, ST, PC, AMIGA

only £79

For Atari, Macintosh, DOS, Windows and Amiga. Available for: Roland D-series, U20/220, JV80/880, R8, R5, R8m, all GS products, KORG M-series, T-series, O-series, WaveStation series, Emu Proteus 1, 2, XR, Ensoniq VFX / S01, Yamaha TG & SY 22,33,55,77, Kawai K1 / K4, or WHY NOT GO FOR full MIDIOQUEST Only £189 (£219 for windows), for over 135 editors!!!

MUSICATOR FOR WINDOWS

£295

Music Sequencing and Notation Printing Seamlessly Integrated, with full editing of GS timbres and effects. You use to have to buy 3 separate packages to do all this. Ideal with SCC1, SC7, SC55, CM300 etc...

FREE ACCESSORIES • SECOND HAND • LOWEST £ on Steinberg / Emagic UK version!

Steinberg Cubase	£79	Atari Falcon	£499
Steinberg Cubase	£269	Alan 1042	Monitor
Cubase Mac	£375	+CLAB Creator	£649
Cubase Score	£425	Mid Time Piece	£349
Cubase Audio	£699	Emagic Creator	POA
Steinberg Midex+	£99	Emagic Notator	POA
1040 + Monitor	£350	Emagic Unitor2	POA

The UK 4 TRACK Centre

It is fair to say that Turnkey is the birth place of personal Multitrack, indeed the company and its founders were instrumental in the development of the first Japanese products of the early '80s. The philosophy was always to use innovative technology to bring multitrack within the realms of the musician. Our current catalog is still the definitive guide to the subject - comparing all the current machines. Call us for a copy

THE TURNKEY 4 TRACK PACK

Our famous 4 track pack includes everything you need to start making music. Sennheiser headphones, microphone with cable, chroma tapes, cables, head-cleaning kit and the best book we've yet seen on multitrack recording, making you through basic track laying, mixdown etc... with sections on everything from mic placement to synchronisation and MIDI. We've obtained some great 4 track pricing AND for a limited period we will give you the 4 track pack (normal price £59.95) absolutely free with the units featured herein

YAMAHA MT120

£399
NEW BOXED

Yamaha's new double speed four-track features 4 mic inputs, a stereo graphic eq

New Atari 1040STE + Monitor £375

or £395 with free Steinberg

LAST STS EVER!

Cubase Lite for ST - £69 new

1040ST Packages with Monitor

+ Notator Cubase Lite + Cubase

£669 **£439** **£719**

ATARI Falcon 030

In STOCK Call for the latest news from **£599**

IBM® PC COMPATIBLE

CUBASE FOR WINDOWS

Official UK authorised version

£269

Includes free MIDI card (while stocks last)

FACT: PC Cubase for windows is already the best selling version of Cubase worldwide. WHY? The PC is the only truly industry standard (ie all of industry). Reliability is total. The PC is not a home computer. Because of ferocious PC competition, you can now buy a 486 PC for a pittance. It is many times more powerful as a 1040 - 32 bit chip, hard-disk, 8 expansion slots. We are the UK's most experienced PC music store. What works with what? What drivers do you need? We know the answers

PC Cubase Score finally arrived: £250 upgrade / Cubase 1.0 trade in £499

MAXPAK FOR WINDOWS

by Big Noise Software

£175

SeqMax Monitor JukeMax LibMax

BUY MAXPAK NOW BEFORE THE PRICE RISE !!!

From the makers of Cadenza, this is the first product to take full advantage of Windows 3.1 multi-tasking. MaxPak offers SeqMax (the only pattern-based windows sequencer), MixMax (Automated mixer with 128 controls), LibMax (Generic Librarian), and JukeMax (Jukebox). Big Noise's unique MIDI DIRECTOR load and syncs them all together. Free Demo Disk available.

IBM® PC compatible MIDI cards

CM5401 - E81 - 1 in, 1 out	CM5101 - E65 - 1 in 1 out
CM5402 - E116 - 2 in, 2 out	CM5102 - E81 - 1 in 2 out
CM5444 - E234 - 2 in, 2 out	CM5104 - E105 - 1 in 4 out
CM5444C - E293 - 4 in, 4 out	KEY MS101 - E116 1 in 1 out
+ SMPTE /ChaseLock	KEY MS124 - E152 1 in 4 out

CMS cards are expandable, compatible and reliable

Band-in-a-Box 5.0	E89	Finite Academic	£295
Cadenza DOS	£175	QuickScore Deluxe	£115
Cadenza-Windows	£295	SeqWin	£95
Cakewalk Live	£29	Trax (windows 3)	£75
Cakewalk 4.0	£115	MusicTime Windows	£229
Cakewalk Prof.	£189	Roland SCC-1	£299
Cakewalk windows	£295	Roland SCC7 (new)	POA
EZ MIDI Pro sequencer	£59	SC11 editor	£79

FOSTEX X18

£275
NEW BOXED

Here's the machine offering bounce-down and sync jacks which you wouldn't expect at this price. Monix bus doubles as effect send on mix-down. Dolby R.R.P. £289

FOSTEX 280

£599
NEW BOXED

The 280 is the ultimate 4 track for use with computer sequencers such as Cubase. As well as Dolby C 8 inputs, 3 band sweepable EQ and 2 auxiliaries, the 280 sports MIDI machine control via the MT01, so that your multitrack can be slaved to the computer rather than the other way round which is the norm. 2 auto-locate memories, autolay and

A fantastic new machine from the makers of the Portastudio. Double speed, EQ on each channel, built-in, 4 channel metering system

TASCAM Porta 07

£369
NEW BOXED

Tascam 488 new £199 Tascam 464 EPOA
Tascam 688 8 in £199 Fostex X18 £225
Tascam Porta 05 £299 Fostex X28 £325
Tascam Porta 03 POA Fostex X28H £349
Tascam Porta07 stock Vestax MF44 £269
Tascam 424 POA

PA Systems

Huge display, all name brands: configure as you like and compare. Our range features 11 ultra-cost-effective packages from £399 to £3399 including products from Bose, JBL, EV, etc... We guarantee you can't buy better. Call 071 437 3195 for info now.

MIXERS

STUDIO RESEARCH NEM24

24 channel noise eliminating Mixer **£169**
NEW BOXED

Imagine a 24 channel mixer that introduces no additional noise. 20 jack inputs and 4 balanced XLR mic inputs. Using your sequencer to control the MIDI volume and MIDI pan on your MIDI keyboards and sound-modules, the NEM24 offers unequal value - 4 sends, built-in headphone amp, 19" rack mounting - irresistible. Also available in NEM6, a base 81 / 4st2 noise eliminating mixer for £79

8:2 rack £199

NEW BOXED

12:2 £299

NEW BOXED

16:2 £375

NEW BOXED

Available in 6, 12 and 16 channel versions. Very quiet, great sounding EQ, rugged steel construction for good shielding etc. • Each channel has a 1/4" line and XLR balanced input, gain, high, mid and low EQ, 2 auxiliaries, pan and long-throw fader • Auxiliary master gain, EQ and pan, Bar graph metering, headphone monitoring. Exclusive LD stocks. Includes FREE monitoring headphones and 24hr carriage

ROLAND RACK LINE MIXERS

Astonishing sound quality designed to match the AVB range. 24 or 48 ch **£849**
£999

SOUNDCRAFT SPIRIT FOLIO MIXERS

£349
NEW IN VINTAGE

Almost everyone involved in music production at some stage dreams of owning a Soundcraft console. The legendary sound quality, reliability and ease of use, means a Soundcraft equipped studio must be taken seriously. A minor miracle has been performed, using the world's most advanced production technology, and revolutionary manufacturing techniques, to bring you Soundcraft quality at a previously unimaginable price. Turnkey has an unparalleled 10 years experience with the brand, from advice, finance & installation to a quality of after sales backup that stems from many years experience with the brand.

***PRICES INCLUDE 17.5% VAT • Add E9 P&P**

***We will beat any genuine quote from a UK or European dealer. We must be able to substantiate the quote and the goods must be available and in stock.**

* Interest Free credit (subject to APR 9%) is available on selected items only. Both are subject to status. Some Soundsource is a licensed credit broker under the 1974 consumer credit act. Written details are available on request

MAIL ORDER DEPARTMENT

Our long established mail order department documents your order from receipt to despatch. Send checks postal orders, Access or Visa orders, Bankers draft, Building Society checks, Cash in hand. Envt to TURNKEY, FREEPOST WD 6841 LONDON WC2H 0BR (10 day clearance for personal checks). All other forms of payments - 24 hr despatch. Telephone Orders Welcome on 071-375 5148

NAME _____

ADDRESS _____

GOODS REQ. _____

AMERICAN EXPRESS _____

CARD NO. expires: _____

TOTAL £ _____

DAYTIME Tel. _____

end product

Available in a marketing territory near you...

Voyager Transmission (VC/Union Recordings)

On CD, this 'EP' includes two extra tracks worth 37 minutes and 55 seconds between them, and one of them, 'Arrival', clocks in at 20 minutes of open, fluid hisses and drones to



match the album-length excesses of yer Tangerine Dreams any day. But it should come as no surprise to discover that the artist responsible is the black *doyen* of the UK acid house scene name of Tony Thorpe, responsible for club-friendly Moody Boys and Underworld releases and steeped in the pre-house traditions of experimental British funk (he was once on the same label as 23 Skidoo).

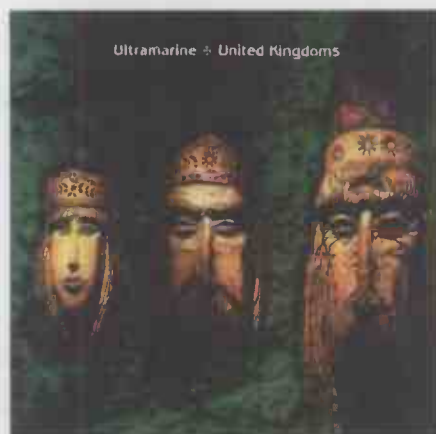
The acid tradition continues in spite of the sampler, resting on analogue laurels and a gorgeously soft bed of sawtooth and sine waves. Voyager's music is pure in that sense, an escape to an abstract yet familiar place with no final demands or other nasty reminders of home.

The cultural reference points which abound in *United Kingdoms* and *Everything Is Now* may be celebratory, but by definition the sample is still a pocket of reality stowed away in the mix. *Transmission* banishes even this: it's acid; it's a voyage; it's a trip. PW

Ultramarine United Kingdoms (Blanco Y Negro)

For a piece of "techno-folk", this is one hell of a funky album, and proves beyond doubt the theory that technology becomes invisible in proportion to the sophistication of its design and use. The sampler, in itself a dumb tool until fed, is the transparent expeditor of Ultramarine's eclectic musical framework, plundering styles from urban America to rural England. And so rich is the blend that only the surface coating of analogue bleeps reminds you that the machines are, in fact, in the driving seat.

A track called 'English Heritage' sums up



the irony of high-tech-meets-folk, and yet simultaneously reveals the flexibility of the chip: given the musical archives of the world at your fingertips, there's no reason why all kinds of incongruous hybrids shouldn't come into being. In a way, the continuing survival of the basic four-on-the-floor dance format which still underpins experiments of this kind shows what a robust style it is. Hence the reckless application of terms like ambient house to Ultramarine's music, notwithstanding the presence of ex-Caravan flautist Jimmy Hastings and rustic rocker Robert Wyatt himself on this album, singing – yes, I think I can use this word – songs. And yet, as I said, it's still damn funky. PW

Bassheads C.O.D.E.S. (deConstruction/Parlophone)

Bit of a Wirral conspiracy developing in this month's *MT*, what with The Listening Pool on page 32 and now this superb 'electronic listening' album from duo DJ Desa and Nick Murphy, who hail from the same side of the Mersey. Right on cue, Bassheads combine a chill-out mentality with lengthy instrumental pieces and an avowed admiration for Pink Floyd, without so much as a post-punk blush. Along with the Artificial Intelligence series on Warp, *C.O.D.E.S.* provides further evidence that the predicted maturation of dance forms into solid albumsworth of more melodic fare is well underway.

In truth, there's little to demonstrate very much Floydiness, save the gradual development of the intros, and the faint

The Drum Club Everything Is Now (Big Life)

A dry, staccato recording which emphasises the myriad percussion sounds that no doubt constitute the necessary credentials for entry into the Club. Much fun is had with dub echo, too, and a sense of humour and eccentricity prevails which has something in common with Ultramarine's more bucolic pastiches.

The musical freedom afforded by the sampler is also responsible for the rise of tribal trance, wherein the organic element is provided by more ethnic archives. And *Drum Club* retain an even stronger dance element, in keeping with their club proprietorship at The Sound Shaft in London, yet also some typically understated guitar courtesy of MIDI Circus guest Steve Hillage and some more guitar from Emma Anderson of Lush. I don't know... Caravan, Soft Machine, Gong... back to the planet, I guess. PW



MT
RECOMMENDED

N. R. Hills

Earth Logic (Celeno)

Nigel Hills ploughs his own new, not to say middle, age furrow; this is an intriguingly fragmented series of keyboard instrumentals. Available from electronic music retailers GFT (081 339 9365) and Ultima Thule (0533 854545).

Earth Logic
N. R. Hills



Various Artists

Apollo (R&S)

Ambient compilation from Ghent's techno label, pulling together much dub and wash from, among others, Juan Atkins, The Orb and some character called Apex Twin.

Dead Can Dance

Into The Labyrinth (4AD)

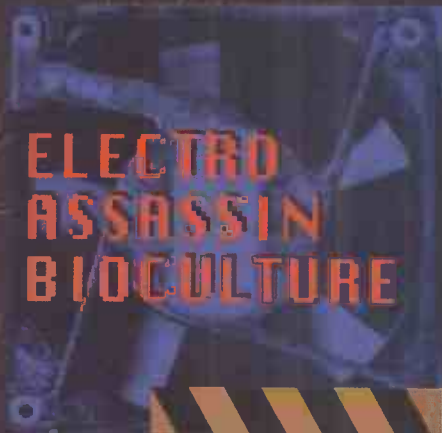
Possible subtitle: Together In Eclectic Dreams. A mournful collection of vocal samples from rustic European sources, set against a backing as sparse as the Irish countryside in which it was conceived.

Various Artists

Manifestation - Axiom Collection II

(Axiom/Island)

Axiom is bassist/producer Bill Laswell's label in New York, dedicated to First World/Third World hybrids and representing a more developed global sensibility than even Peter Gabriel's Real World experiments. This compilation features fine tracks by Material (Laswell's 'supergroup'), Nicky Skopelitis and Mandingo in particular. Strong hip-hop undercurrents and loads of muso-applied technology.



Electro Assassin

Bioculture

(Hyperium)

Industrial-strength electronics with a strong Germanic flavour, but our accompanying letter was from someone called Kevin, not Klaus. It also had "big violence technofetish" emblazoned on the headed notepaper. Call 081 341 7584 for a fix.

Code

505 345 675 delta 9 (Remote Sentry) EP

We don't normally include EPs, but this is such a corker we couldn't resist. The title comes from the grainy NASA-style sample which heralds a beery soup of fat basslines and crackling digital percussion and guitar. Available from Remote Sentry Records, Masons House, 8 Richmond Gardens, Bournemouth BH1 1JE.

Fantazia

Twice As Nice (Creation

Entertainments) video

The third in Fantazia's glimpses of life after dark for the armchair raver, introduced by *The Word's* Dani Behr and filmed at the organisation's second-birthday shindig in Milton Keynes. Complements the *Twice As Nice* double album.

On video

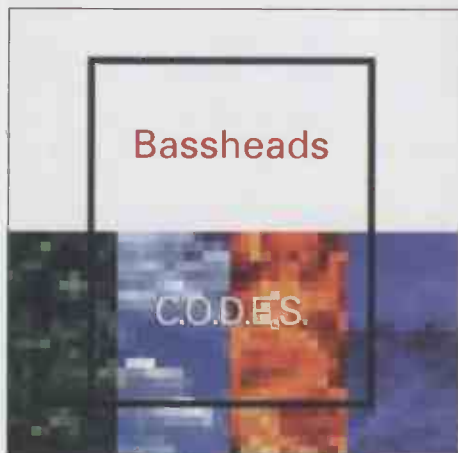
The Irresistible Force

Flying High - With Mixmaster Morris & The Wisemen (Telstar Video Entertainment)

The Irresistible Force's *Flying High* really is out of this world. I've rarely seen anyone get closer to simulated 3D on just a flat screen alone, and the graphics have a beautifully music-sync'd rhythm and flow. There are some truly original ideas in this mixture of fractal overload, morphing and splicing, and the levels of movement, layering and complexity are a mindblower. Mixmaster Morris lays down the ambient soundtrack, and although not his finest work it does still provide, in the words of the sleeve, "a 1.4 Gigatherms chill-out factor". Just try watching it with the glasses from *Cyberdelia* (reviewed last month)...



The TV screen is often a restriction for the prodigious talents of artists like The Irresistible Force, but much of your enjoyment depends basically on your social life. If you don't club or rave regularly, then buy this, turn on, tune in and freak out. Although anyone used to the multimedia sensory overload that is much of the current rave scene may find themselves occasionally twiddling thumbs, *MT* readers of any persuasion can amuse themselves integrating video action from *Flying High* into their own audio-visual work ...it only takes a mixer. Bedroom multimedia? It's here. **Bruce Hepton** ●



resemblance to 'The Great Gig In The Sky' from *Dark Side Of The Moon* in those passages which float a female chorus over steady piano chords. Progressive rock proper is actually being kept alive by Magellan and a host of other bands who are currently reacting to the minimalist gestures of the dance boom by flouting all the virtuosity they can muster in an attempt to sound more like Yes than Yes. Genuinely original artists like Bassheads - or their marketing team, at least - can namecheck whoever they like, but dinosaurs are better left to Steven Spielberg. **PW**

SUBSCRIBE TO MT

AND YOU COULD WIN A COMPAQ PC!



Banish forever those woke-up-this-morning-and-my-newsagent-had-sold-out-of-MT blues by taking out a subscription to your favourite music and multimedia monthly – and you could find yourself the lucky winner of a Compaq Deskpro 3/25i PC worth £999, courtesy of sole UK music dealers Barnaby Marder Music Ltd.

All subscriptions received by December 31st 1993 will automatically be entered into this exclusive competition.

The Deskpro system comes complete with 4Mb RAM, an 84Mb hard drive, a 486 processor upgrade socket, DOS 5.0, Windows 3.1, a mouse, a Compaq VGA monitor and a CMS MIDI card. In fact, everything you need to get up and running bar the software – and these days, thanks to Windows, the Multimedia PC standard and the commercial lure of the massive PC market, there's plenty of that to choose from.

There's one other thing you have to do to qualify for entry: answer one simple question:

How many Mb of hard drive does the Compaq Deskpro provide?

Write your answer on the form in the space provided, fill out the rest, and look forward to a whole year of regular MTs dropping through your door...

Next month in MT

- **The Orb** – live in Copenhagen
- **Karl Bartos** – Kraftwerk and Elektronik Music
- **Dieter Meier** – Yello's mouthpiece
- Special preview: **E-mu's Morpheus** – synthesis moves on
- **Virtual Vision** – MIDI-controlled multitrack video
- **SampleTools** – S1000 editing for the ST

Prize donated by:

BARNABY MARDER MUSIC
 16 Red Lion Street
 Richmond Surrey
 ☎ 081 948 8795
 ☎ 081 948 8971
 Fax : 081 332 7241
 PROFESSIONAL AUDIO & DIGITAL

SUBSCRIBE TODAY

Please send me the next 12 issues of MT commencing with theIssue

ONE YEAR SUBSCRIPTION RATE:
 UK £25, Europe and overseas (surface) £30,
 Europe (Airmail) £41, Overseas (Airmail) £52.

I enclose Cheque/Postal Orders to the value of £ made payable to Music Technology Publications Ltd.

Overseas payments must be in Pounds Sterling drawn on a British bank. Please include a daytime phone number in case of query.

PLEASE PRINT

Name

Address.....

.....

.....

.....Postcode.....

Daytime phone number.....

It is essential that you include your correct postcode.

Your competition answer

KEYBOARDS

ANTIQUE ROLAND
JX8P plus stand for
£350. Roland D5, £350.
Alesis SR16, £200.
Offers phone Nick on
0600 890987.

CHEETAH MK7VA
MIDI master keyboard,
velocity-sensitive,
aftertouch, pitchbend
wheel, modulation
wheel, £200 ono. Alan
young. Tel: 0983
616240.

ELECTRO COMP poly
box, £200. Paul. Tel:
041 772 9680.

EVOLUTION EVS1,
£150. Casio CZ1000,
£100. Fostex X15, £50
or swop all for Yamaha
TG100. Gajits
Sequencer 1 Plus, £20.
Stereo Replay (for use
with Sequencer 1 Plus
sampler), £40. Tel: 0748
825481.

EVS1 8-part
multitimbral expander,
programmable including
Atari editing disk and
library of sounds, £120.
Gary. Tel: 0702 349544.
HAMMOND C3 plus
Leslie. Good condition,
best offer secures -
part-exchange possible.
Jonathon Slater. Tel:
0924 864673.

KAWAI K1R rackmount
multitimbral synth,
excellent condition.
Gary. Tel: 0702 349544.

KORG 01/W FD
excellent condition,
home use only,
additional sound cards,
£1200. Tel: 0668 7344
(Northumberland).

KORG 01/W FD boxed
as new - never gigged,
loads of extra sounds,
£1200 or swop for
Yamaha SY85 plus
cash. Shaun. Tel: 0482
883303.

KORG EX T3
professional synth as
played by Rick
Wakeman. Excellent
condition, 300 sounds
plus loads more
on disk. Includes
stand and flightcase,
£950.
Tel: 0202 734415.

KORG M1R rack
workstation, home
use only, complete
with manual, £500.
Phone 021 605 0508
(Birmingham).

KORG MS10 analogue
synth, £100 ono. Sean
Morris. Tel: 0782
343236.

THE WAREHOUSE

The Warehouse contains MT's readers' ads - the largest repository of high-tech bargains in the Northern Hemisphere. Some of the ads are free to place; others are 'priority' ads for which you pay to jump the queue - next issue guaranteed. Priority ads appear in bold.

To place a free ad:

- Dial **0891 100767*** (24 hours)
- State category, recite your ad and include contact details
- That's it

To place a priority ad:

- Dial **0891 100796*** (24 hours),
state category, recite your ad and include contact
details, Access or Visa card number and expiry date OR
fill out and post the coupon at the back of this Warehouse.
- Up to 25 words costs £5.00
- Additional words are 50p each

*Calls cost 36p per minute (cheap rate), 48p per minute
at all other times. We regret we cannot answer queries
regarding readers ads.

The Warehouse is for private vendors only. Business
vendors must use the classified ads at the back of MT.

KORG POLY 61
programmable
analogue poly synth,
excellent techno
sounds, mint condition
complete with original
box and manual, £190.
Tel: 0703 220152.

KORG WAVESTATION
EX keyboard, £925. Tel:
0248 713763.

KORG WAVESTATION
keyboard plus drum
wave card and RAM
card, £850. Boss Dr
Synth module, 2 months
old, £250. Alesis
datadisk £220. Offers:
call 0386 443622, ask
for James.

KORG WAVESTATION
EX, £950. Proteus II,
£525. Yamaha TG500,
£750. Tel: 0248 713763.

MUCH SOUGHT
AFTER Prophet VS,
excellent condition,
good flight case,
updated ROM, need
quick sale, £950. E
drum pads, snare, kick
plus 3 toms, no brain,
£450. Rob. Tel: 081 761
8013.

PROPHET 600
keyboard, first
analogue/digital synth,
MIDI fitted,
flightcased,
collectable, £399 ono.
Must sell 021 355 5769
after 10pm.

ROLAND D110 £250
ono. Kawai K1, £250
ono. Cadenza for DOS,
£120 ono. All boxed with
manuals from George.
Tel: 0324 665007.

ROLAND D20 with
built-in multitrack
sequencer, as new,
home use only with
manuals and flightcase,
£520 ono. Tel: 0905
640894 eves.

ROLAND D20 with
stand and discs,
excellent condition,
£700. Amp new, £220
ono. Liz. Tel: 0273
503348.

ROLAND D50 synth
with cards. Roland
M240 line mixer, both
mint, offers. Wanted:
Roland D550, Roland
MK550 with
programmer. Alesis
3630 compressor,
cash waiting. Tel:
0202 581141 (Steve).
ROLAND D50 plus 3
cards, £450. Yamaha
TX81Z, £120. Elka 1
octave MIDI pedals,
£120. Dr T Copyist DTP
for the Amiga, £100.
Carl. Tel: 0942 226026.

ROLAND D70 excellent
condition, £800 ono.
David. Tel: 0536
722906.

ROLAND JUNO 106,
£375. Roland TB303
Bassline, £285. Tel:
0268 776554.

ROLAND JUPITER 6
classic polyphonic
analogue synth. New
MIDI chip, boxed with
manual, flightcase,
excellent condition,
£650. GBS MKIII
reverb, balanced
XLRs, £80. Tel: 071
624 5247.

ROLAND JX3P
analogue with
sequencer/programmer,
£250 ono. Yamaha
DX7, £340 ono. Roland
W30 workstation/
sampler, £600 ono. Earl
Maynard. Tel: 0222
494872.

ROLAND JX3P
excellent condition,
£250. Steve. Tel: 0482
416260.

ROLAND MT32 synth
module, £140. Yamaha
PSS 780 FM keyboard
PCM drums, £80. Both
good condition with
manuals and psus.
Steve. Tel: Birmingham
021 458 3183.

ROLAND SH101
classic analogue
synth, £80. Roland
Vocoder, £200. Casio
CZ1000 with stand,
£100 and Yamaha
DX100 with strap, £30.
Or all four just £350.
Tel: 0732 883736 eves.

ROLAND TB303 and
Korg KMS30 (Roland
Sync - MIDIClock),
£400 pair. Roland
SH3A synth, £149.

Korg VC-10 v.rare
vocoder, £350, Moog
Rogue, £199, Roland
PG300 (MKS 50, Juno
prog) £99. Korg MCR-
03 RAM card unused,
£65, 2Mb S1000 exp
board, £75. Dominic.
Tel: 061 431 7425.

ROLAND U20 excellent
condition, £450.
Contact Dylan on 0602
327426.

ROLAND U20
keyboard with full
flightcase and Latin
percussion, £495. R50
drum machine, £75.
Kevin. Tel: 091 264
4021.

ROLAND VOCODER
plus VP330 keyboard
with strings, excellent
condition, classic
sound, vocodes
voices, guitars,
synths etc. Heavy
duty flightcase,
genuine collectors
item 021 355 5769
after 10pm.

YAMAHA CLAVINOVA
CLP350 piano, fully
weighted keys, includes
reverb, expander, synth
box and sequencer.
Reluctant sale £1200.
Neal. Tel: 0272 774394.

YAMAHA CS50
analogue, £70. Roth
Colins. Tel: 0422
842000.

YAMAHA DX11 mint
condition, £275 ono.
Also Atari St 1Mb
Hi-res monochrome
monitor, printer,
software and external
drive, £325 ono
and Roland CR5000
drum machine £50.

Contact: Mark Barker,
13 Beechwood View,
Leeds, West Yorkshire
LS4 2LP.

YAMAHA DX7 synth
in mint condition,
ungigged with cartridge
plus sounds on disk
and manuals. MIDI
compatible, £300.
Andy. Tel: 0664 69669.

YAMAHA FB01 FM
Tone generator with
manual, £100. Leech.
Tel: 0306 740123 ext:
3657 (day) or 0306
884972 (eves).

YAMAHA FB01 sound
module, £60. Dynamix
6:2 mixer, £95. Ms
Pettite. Tel: 081 676
0852.

YAMAHA PSR 4600 keyboard £200, 12 months old, boxed with stand and full instructions. Atari 1040 STE, £220, 12 months old with mouse, mat and joystick, full instructions. Cubase V3.0 for Atari, £220, six months old (includes Steinberg utility disk). Stuart. Tel: 0275 875646 after 6pm.

YAMAHA PSR SQ16 keyboard, 200 sounds, disk drive, MIDI and rhythms, vgc, boxed with manuals, £850 ono. Tel: 0373 859497.

YAMAHA SY22 with manual, £475 ono. Jason. Tel: 0865 778477 or Tony 0865 726767.

YAMAHA SY55 workstation plus massive extra sounds. Tell your mum only £450! Mark. Tel: 0273 329223.

YAMAHA SY77 with over 5000 sounds on disk. Absolutely pristine condition. Home use only with original box and manuals etc. Incredible 32-voice synth. Sensible offers invited. Rob. Tel: 0388 814357.

YAMAHA SY85 boxed, unused and totally unmarked, disks and 2 RAM cards included, £1050. Ken. Tel: 0782 751069.

YAMAHA SY85 immaculate, boxed with manuals and RAM card, £1200 ovno. Tel: 0929 551706.

YAMAHA TG33 AWM synth module and Roland PC200, velocity-sensitive MIDI controller. Both boxed, as new for £400 ono, Richard. Tel: 0443 208495.

YAMAHA YS200 synth, easy to program, superb condition, 8-track step-time sequencer, multitimbral, touch-sensitive, full MIDI spec, boxed and manuals, £350. Tel: 081 941 6359.

SAMPLING

AKAI S900 with v2.2 plus full library, £590. Immaculate condition. Tel: 0273 698316.

AKAI S950 fully expanded, £850. Korg DSS1 keyboard

sampler, £500. Atari 520 STE 4Mb, £300. SM124, £60. Cubase V3.0 with manuals, dongle, 7 months old, £290. TB303, £200. Kenton Pro 2, £160. Richard. Tel: 0844 345522.

AKAI S950 MIDI digital sampler, immaculate condition, home use only, boxed, £750. Colin. Tel: 0831 403937 (day) or 0734 862105 (eves).

AKAI S950 MIDI digital sampler, perfect condition, home use only, 140Mb library on 3.5" disks, Yamaha YS200 synth/8-track MIDI sequencer, A-Frame stand, £990 ono. Phone Simon on 0909 564457.

AKAI S950 unused, few months old, fully expanded, warranty, £999. Tel: 0274 727607.

AKAI S1000 mint condition, V25W, manuals, disks, memory expander, boxed, £1700. Tel: 071 511 6260 eves. Also 18U high studio rack unit £50.

AKAI X7000 keyboard sampler, boxed, manual and ASK 70 memory expansion board, £500. Jason. Tel: 0323 640174.

CASIO FZ1 clone excellent condition, full library plus Avalon editing software, all manuals, 3700. Steve. Tel: 0533 811422 after 6pm.

CASIO FZ10 rackmount 16-bit 2Mb sampler with Zero G CD and disks. Absolutely immaculate condition, £575. Shadow S801 MIDI pick up perfect tracking £150. Tel: 0382 500261 ask for Sandy.

EMAX II incredible sounding sampler, £900. Home use only. Tel: 0744 35567.

ENSONIQ EPS + R full expansions, 120-disk library, immaculate condition, £1100 ono. Giles. Tel: 0242 575607.

ROLAND W30 workstation sampler/sequencer with full Roland library, 60 disks and more. Boxed with manual, 1 years home use, £850 ono. John. Tel: 0734 780803, evenings.

RECORDING

ALLEN & HEATH CMC16 mixing desk, built-in computer aided routing system plus external computer and interface unit for sync to tape, Supplied with manual, £1100.

Anthony. Tel: 0860 647360.

ALESIS MICROVERB III digital reverb, as new, £100. Tel: 0480 466346.

FOSTEX 280 multitracker, £400. JL Cooper PPS2 MIDI sync, £100. Both hardly used. Boxed with manuals. Phil. Tel: 0602 382719.

FOSTEX 450 8:4:2 mixer, very quiet with excellent EQ, as new, boxed, £350 or offers. Peter. Tel: 071 624 8019.

FOSTEX B16 excellent condition, boxed with manuals, £1299. AX80, £175; K1, £175; D550, £450; HR16, £99; XE8, £80; TR626, £95; TR727, £95. David Defurey. Tel: 0274 620004.

Fostex R8, £995 ono. SECK 18:8:2 mixer, £750 ono. DBX263X De-esser, £135 ono. Emu Proteus II XR, £685 ono. Yamaha PF85 3 months old, £675 ono. Roland D50, £475 ono. BBE 422A maximiser, £225 ono. Drawmer 1960 valve compressor/limiter, 4 months old, £795. Tel: 0689 854979.

MTR DNG1 noise gate, rack mount stereo or mono. Only used twice at home, £120. John. Tel: 0274 665070.

ROLAND A880 MIDI patchbay brilliant condition - only 1 month old. Offers. Paul. Tel: 0302 538304.

ROLAND SRV2000 Pro digital reverb, £350 ono. Boss DX16 16:2 keyboard mixer, £300. Laurence. Tel: 0727 811013.

SOUNDTECH ST15 EQ stereo, 15-band graphic EQ. As new, boxed, £95. Chris. Tel: 021 308 0769.

STUDIOMASTER 16:8:2 mixer. Excellent recording or live. Leads included, £550. Terry Harvey. Tel: 0703 231282.

TASCAM 16-track master recorder, 0.5", dbx. Just serviced by Tascam, perfect condition, price reduced from £3000 to £2400 for quick sale (emigrating). Pamela. Tel: 0332 768427 or 021 422 7311.

TASCAM 238 sync cassette, as new, £660. XRI300, £130. Alex 20 compressor, £165. Alan. Tel: 051 339 1167.

TASCAM 644 8-track, multitrack recorder with MIDI. Paid over £1000 for sale £645. Paul. Tel: 0302 538304.

TASCAM 644 MIDI multitrack, 4 tracks available and 16-track desk. Cost over £1000 sell for £595 and Roland A880 MIDI patchbay: 3 merges, 8 ins and 8 outs, vgc cost over £250 sell £155. Paul. Tel: 0302 538304.

TASCAM PORTA 1 as new, boxed, £250. Tel: 0924 864673.

TEAC A3440 4-track reel-to-reel with DBX noise reduction and tapes. Excellent condition, home use only, £400. John. Tel: 0274 665070.

XRI SYSTEMS XR300 SMPTE/MIDI machine, excellent unit in excellent condition, £175. Can deliver London if necessary. Richard Causon. Tel: 0252 850795.

YAMAHA MT100 4-track, excellent condition, £220. Nick. Tel: 0438 313313.

YAMAHA MT44 4-track, dolby cC, MTR PD80 patchbay, Frontline X8 mixer, £200 or swap for computer. Richard. Tel: 081 672 7486.

SEQUENCERS

GAJITS BREAKTHRU for sale plus manual, £30. Tel: 061 434 7683.

THE KIT boxed with instructions, £70. Roland Compumusic CMR-800R, early C64/Spectrum computer sequencer (needs software) boxed with manual, £80. Rob. Tel: 0462 459 218 after 7pm.

COMPUTERS

ATARI 1040ST with monitor, fast mega

drive, Pro 24 plus other boxed software, will separate, £700. Michael. Tel: 0374 137788.

ATARI DR T, s editor for Roland MT32 for sale with manual. £50. Paul Marshall. Tel: 041 774 5659.

ATARI FALCON 4Mb RAM, 65Mb hard disk, 14" SVGA monitor, £900 ono. Robert. Tel: 061 368 8969.

ATARI STE with Steinberg Pro24 software, 3 months old, as new, £195. Tel: 04775 37803.

ATARI STFM upgraded to 1Mb, double-sided drive plus Concerto sequencing software, £150. Robin. Tel: 0305 783258 after 6pm.

MIDI MM401 PC MIDI interface, £35. Adam. Tel: 0207 542794 after 4pm.

PHILIPS STEREO colour monitor for sale, good condition, £180. Paul Marshall. Tel: 041 774 5659.

YAMAHA CX5 MkII including software, as new, boxed and manuals, £150. Tel: 0924 864673.

DRUMS

ALESIS HR16 digital drum machine, as new, £150. Tel: 0480 466346.

ALESIS HR16 drum module, £140. Tel: 0248 713763.

ROLAND R5 swap for Roland 808. Matt. Tel: 071 439 3325.

ROLAND R70 drum box only 2 months old. Cost £495 sell for £365. Also Tascam 644 4-track and Roland A80 MIDI patchbay. Offers. Paul. Tel: 0302 538304.

ROLAND TR626 excellent condition, £100. Nick. Tel: 0438 313313.

ROLAND TR808 mint condition, complete with original box and manual, £350. Tel: 0703 220152.

SEQUENTIAL CIRCUITS drum machine for sale, good condition with 2 sound cards, psu and manuals, £150. Paul Marshall. Tel: 041 774 5659.

classifieds

To book your advertisement

Telephone

**0353
665577**

extension 163

COURSES

SOUND CAREER SCHOOL OF AUDIO ENGINEERING



LONDON
PARIS
SYDNEY
SINGAPORE
VIENNA
BERLIN
AUCKLAND
MUNICH
AMSTERDAM

**A RIGHT WAY TO START YOUR CAREER
IN THE MUSIC & BROADCAST INDUSTRIES**

INTERNATIONAL RECOGNITION - SINCE 1977 - PRACTICAL
TRAINING - JOB PLACEMENT SCHEME - 16 COLLEGES



School of Audio Engineering

LONDON
071-609 2653
SCOTLAND
0236-436561

RECORDING & PRODUCTION TRAINING

Constantly updated part & full-time courses operated in association with the pro-audio industry providing unique access to the latest analogue & digital sound recording and production technology in our 24-track automated studio and digital programming suite

One year full-time Diploma Course in

ADVANCED SOUND RECORDING & PRODUCTION

Practically based tuition in small groups with theory from internationally recognised specialists supplemented with new technology from leading manufacturers

Three months full-time Certificate Courses

ANALOGUE SOUND RECORDING & PRODUCTION

One week full-time course

INTRODUCTION TO SOUND RECORDING & MIXING

An entirely practical foundation course

THE COURSES COMMENCE 27TH SEPT. '93

These comprehensive courses give the necessary skills & experience to gain employment in the music recording industry

Brochure from: **MEDIA PRODUCTION FACILITIES**

Bon Marche Building, Ferndale Rd, London SW9 8EJ

Tel: 071 737 7152 or 071 274 4000 x 328



City & Guilds Courses

Our 24 track studio and MIDI facilities are the UK centre for City & Guilds qualifications 2337 and 2338. Sound engineering and Music Technology courses start at regular intervals throughout the year.

The certificated course formats are:

- ★ 1 year on day release ★
 - ★ 7 weeks condensed intensive ★
 - ★ 1 year evening classes (twice weekly) ★
- Phone now for details and a free prospectus
London Belfast Dublin

16 Havelock Walk,
Forest Hill, London SE23
Tel: 081 699 6945 Fax: 081 699 5845

A RECORDING WORKSHOP

Offers a 2 month course of 8 creative workshops in small groups, on recording and production techniques. 16 track studio near Shepherds Bush. Hands on experience from the start.

Beginners welcome. All aspects covered from midi, microphone techniques to EQ, effects use and mixing. Emphasis on practical experience.

FOR PROSPECTUS: 081 743 2645

USER'S CLUB

"CALLING"

All home musicians and music fans
HomeTech Music Club forming now.
Be heard by and hear 1000's of others.
For further details write to:

HomeTech Music Club
2a White Conduit St.,
Islington,
London N1 9EL
Tel: 071 354 8870

TO LET

TO LET

- Close to Manchester city centre Deansgate Metro Link, G - Mex plus Mancunian Way (A57M)
- In the Tin Pan Alley of the North
- Offices plus studio, 2900 sq ft. Over part 3+2 bnck built building
- Real Care Alarmed plus carpeted offices.
- £2.90 per sq ft per annum

Fax: 061 834 3056 FOR DETAILS

CD/CASSETTE DUPLICATION

Compact Discs

AT VERY COMPACT PRICES

Plus cassettes (1 to 1 million)
Vinyl; Print & Packaging and much
moreCALL NOW!!

ON - Q PRODUCTIONS: 081 671 4431

COPYTIME

- ★ CASSETTE AND DAT MASTERS
- ★ REAL TIME DUPLICATION
- ★ VIDEO/AUDIO
- ★ PRINTING
- ★ ANY LENGTH
- ★ SMALL ORDER SPECIALIST

RING FOR BROCHURE

081 421 1970

FOR HIRE

ADVANCED SOUNDS HIRE

- Musical & Studio Equipment
 - Home Recording Packages
 - New & Used Equipment Sales
 - Part Ex / Delivery / Collection
- VISA + ACCESS Low Rates. Good Service

TEL: 081 462 6261 or 8621

STUDIOHIRE

071 - 431 - 0212
071 - 431 - 0212

IN STOCK NOW - FOSTEX PORTASTUDIOS,
MULTITRACKS & P.A. FOR SALE OR HIRE

WE ALSO STOCK A COMPREHENSIVE RANGE OF ANALOGUE RECORDING
EQUIPMENT, KEYBOARDS, BACKLINE AND EFFECTS FOR HIRE OR SALE

YOU NAME IT - WE'VE GOT IT - RING FOR DETAILS

SOFTWARE, HARDWARE & SAMPLES

Calling all Roland 'D' Series Owners !!

C.I.S. International Limited are proud to announce the exclusive collection of Roland 'D' series sound. The sounds are out of this world and include the legendary Hammond 'B5', and ultra realistic sounds of the Harmonica, Strings, Piano, Fender Bass, 'Equinox' synths, and Numerous other Dance & Rave Sounds.

A collection of the hottest sounds around, simply load them into your Roland 'D' series synthesizer for truly professional results. These sounds have taken months to create and are the best available.

Exclusive Dance Collection, Volume One (MSD20-01):
This disk contains 64 of the hottest Dance sounds inc. the Hammond 'B5', Jon Hammer, LA Strings, 'Equinox', The ultra real Harmonica, PCM Piano, Percussive, Dance Drums and lots lots more!

Exclusive Rave Collection, (MSD20-01):
166 Rave collection comprises 64 of the hottest Rave sounds inc. Bass Music, Vocoder, Prodigy, Acid Bass, WA, Darks, --Sound FX's--, Bass Age, Synthetic, Rave Drums and lots lots more!

Atari 1040STE MUSIC PACKAGE
The Music Master Package features the popular Atari computer the 1040STE used within the music industry by novices and professionals alike. Supplied with the computer is the renowned 'PRO24' software package by Steinberg which is also used by many top professional musicians. By connecting the Atari directly to any MIDI equipped keyboard or sound source you have the ability to write and compose music in a very straightforward way.

Super Deal!! Atari 1040STE and PRO 24 MIDI Software... £229 inc. VAT

C.I.S. INTERNATIONAL: ☎ 0284 725639

C.I.S. (International) Limited • C.I.S. House • Unit 10A • Hardwick Industrial Estate • Dory St. Exmouth • Exmouth • IP33 2DH
Tel: (0284) 725639 • Fax: (0284) 725640

Stage 1 International Quality and service

Ready to play MIDI Song Files

General MIDI Standard (GM)
Standard MIDI file (SMF)
Roland MC-300 (MC) - GEM S2/S3
GEM Workstation

This months special Buy 10 songs and get 5 more songs FREE, of your choice

For further information and song list, Fax-Phone-or Write to **24 hour**

6 Linden Close, Westgate-on-Sea, Kent CT8 8EH
Tel: 0843 836150 Fax: 0843 836151

Session Partner

ATARI ST/FALCON/PC

- Pro Arrangement Software •
 - Song/Groove Generator •
 - Style/Groove/Part Editors •
 - Real-Time Accompaniment •
- Session Partner £149.00
Session Partner II £299.00
Upgrade SP II £199.00

y.net

APPLICATION DESIGN
EDITOR/MANAGER/LIBRARIAN (ATARI ST)

MIG MUSIC • 081 641 6808 • 10am to 8pm • Mon - Sat

Ace sounds on Atari ST disk

Proteus MPS.....100 sounds.....£18	ST EDITORS for Akai XE8, Alpha Juno CZ101, D10, D110, DX21, DX100, FB01, K1 and TX81Z are just £10 each
Proteus 1/XR.....64 sounds.....£16	Dr T's EDITOR/LIBRARIAN for M1, D50, K1 or DX7 £45 each
.....128 sounds for only.....£25	ROM CARDS for M1, D50, K1 or DX7 £45 each
Roland D50.....128 sounds.....£10	01/W £55, Wa. station £45, M1 £45
CZ series.....192 sounds.....£10	
Kawai K4/K4R.....64 sounds.....£14	

CZ RAM Card holds 64 voices plus best 64 CZ voices loaded free £44
Cheques/postal orders to: 55 Angel Hill, Sutton, Surrey SM1 3EH

BIG TIME PRODUCTIONS GOOD VALUE ALL ROUND

The Clock Sync: Sync 24 to MIDI synthesizer, 8 way MIDI in box. Great for 101K, 200K, 300K, 500K, 800K, 900K

only £78.99

MIDI 'Y' Switch Allows one MIDI in to switch between several MIDI MIDI's.
2-way version: £13.00
3-way version: £25.00

• Synth Patches •
CZ patches - 101K available on cassette or ST disk (98 patches per volume)
15 per volume
Atari 800 patches: Data cassette £15.00 (94 patches)
Roland MT32 ST or PC disk £14.00 (94 patches)
Korg D5000/5000 ST disk 10.00 (94 patches)

• Sample Libraries •
PZ110M/20M/HS1/10
EPS/EPS16+/ASR10/TS10
Korg DSS1/DSM1
YAMAHA SY-85/SY99/
TX16W, Atari ST
Avalon/Genwave/Sound Designer
100's of disks available.
Prices from £3 per disk.

• Sampling
ASTRO GLIDE 202 CD.....£37.95
SAMPLE D.A.T.S.....£15.00 each
SAMPLE TAPES:
£8.50 CHROME £7.50 METAL
* FREE P&P ON ALL ORDERS *

Write or call for free catalogue for any of the above.
P.O. Box 520, Burslem, Stoke on Trent, Staffs ST6 5UR Tel: 0782 810811

Heavenly Music MIDI Software

Atari • IBM • Amiga (WB2/XDOS) • Mac (Sys7/AFB) SB55/SD37 • MDF2 recommended for use by Yamaha, Roland, Quasimidi, BCK & others ** Now in format 0 & 1 **

Dr. BEAT RHYTHM PATTERNS, THE DEFINITIVE & UNBEATEN collection: Cut/paste patterns into existing work or start from scratch. Vols 1 & 2, HOT JAZZ & WORLD RHYTHMS, ROCK & R 'N' B, SOUL & DANCE and '50s and '80s £13.95 each

OVER 800 SONG FILES from MEGGATRACKS: A WORLD CLASS SELECTION of pop, funk soul, reggae, latin, MOR, rock, TV & films - programmed by the best ears in the business. We DARE you to compare. Send for our demo/catalogue pack (£3.00 refundable on 1st min order of 3 titles)

BEAT 'N' BASS - All NEW patterns but with bass, funk guitar and other GROOVE TEMPLATES from straight 4s to MEAN slap bass. Pro results in minutes £19.95

THE JAM FILES - Imagine jamming with top musos anytime, in any key at any speed till you drop - you've just imagined RAMJAM. MIDI files 2 vols £13.95 each

NEW - TECHNO GROOVES 15 classic club and dance grooves on one disk Vol 1 out now - £16.95

CHRISTMAS MIDI Song Files - 2 Vols with 10 titles on each - £14.99 each!

To order send cheque or PO to: HEAVENLY MUSIC MIDI SOFTWARE, 39 Garden Rd, Jaywick Village, Clacton, Essex, CO15 2RT, England. Add £1.50 p&p for U.K. £3.00 for overseas.
For more info tel / fax 0255 434217
See you all at the forthcoming London Music Show

"Hands On" Midi Software Ltd.

This is our way of saying
THANK YOU

With Christmas looming on the horizon, now is the time for all gifting musicians to be looking for new material to beef up their repertoire. In these hard times we thought we would help all our loyal customers out with a special Christmas Present of our own. For the three month period starting on the 1st October 1993, we are reducing the price of ALL our MIDI Files to £4.95 inc VAT - minimum order 4 titles - to give you the best chance to have a great gifting Christmas!! We have 1400 titles to choose from, so what are you waiting for? Pick up the 'phone - now, and choose from the best and biggest library in the UK. As a further incentive, we have bundled all our traditional Christmas songs together for the bargain price of £9.95 inc VAT - that's right, make sure you don't get caught short for material by grabbing the lot for £9.95.

Also new in October are a complete range of Rhythm & Jam tracks: "Backbeats" come ready to load into your sequencer, in loads of styles. With "Backbeats" we've taken the hard work out of drum programming to leave you free to create songs without the drudgery. The best thing is "Backbeats" are only £9.95 per disk inc VAT.

The "Groove Machine" collection is designed for people who want to rehearse for hours without paying a band. Practice has never been so much fun! You can jam for hours - just pick the style of music you like and we have a band of session musicians waiting to join you, and they never get tired of repeating the verse until you get it right. Groove machine - £9.95 per disk.

ALL MIDI FILES - £4.95

"Hands On" Midi Software Limited,
3 Bell Road, Cosham, Portsmouth,
Hampshire, England PO6 3NX
Tel: 0705 221162 • Fax: 0705 382865

SERVICES

STOP!

If you are making an insurance claim, then contact Claimlink Assessors, to find out how we can make your claim faster, and for the right amount. Specialists in music biz claims. Make the smart move - Call 081 958 7747

MIDI SOFTWARE for the ST
Phone Sam on
0522 533461

P M S SERVICES
HI-TECH SERVICE CENTRE
ALL MUSIC EQUIPMENT REPAIRED AND SERVICED MOOG-ARP, ETC. A SPECIALITY
SERVICE CENTRE FOR ROLAND, SANSUI TEAC/TASCAM, YAMAHA & AKAI
Tel: 0954 31348 or 0860 782541

JIVE JV80/880 £89.00
SHAPE? O1/W £89.00
AFTERSHAPE? 03r/W £59.00
SYSTEM 99 SY99 £129.00
ALEXIS D4 £49.00
EMILY M1/M1r £59.00
EMMY M3r £59.00
EDITH SY55/TG55 £59.00

Sample CDs

SAMPLE MANIA £79.00

Finally! The reference amongst sample CDs. 1444 Euro Dance, Techno, Pop Stereo Samples. Made in Germany!

Vocal Bytes just £19.00

NEW from USA! Over 1000 vocal samples for your house, trance, rap and dance productions.

Dance Construction

Vol. 1 just £19.00

Over 1200 samples for house, techno, dance and rap. Includes special hip-hop section and techno synths, fx and loops.

ASTRO GLIDE just £19.00

Includes 800 MC202 samples with multi-samples of each sound with varying resonance and modulation. Essential for all house & techno productions.

NEWTRONIC

SOUND DESIGN & MIDI SOFTWARE LTD
62b Manor Ave, London SE4 1TE

Tel/Fax **081 691 1087**

International Mail Order Service

FOR SALE



CUSTOM MADE COVERS

Made from nylon, padded and PVC materials

Top quality hand-made covers and cases for all equipment, keyboards, amps etc

We are official manufacturers and suppliers to:

Stanzberg KORG JBL Fostex VOX

YAMAHA Pro Music TRACE

For free brochure/samples please write or phone

CAPITAL MAMBA (GIG)

96 CUMBERLAND AVENUE, WORPLESDON, GUILDFORD, SURREY GU2 6YH

TEL: 0483 236449

- Compact Discs from 80p
- Blank Tape wound to length
- DAT Blanks & Copies from £2.88
- Realtime & Loop Bin Duplication
- AMPEX & ZONAL Studio Tapes

SELECTA SOUND 0708-453424

SAMPLE THIS ONE

100 + Samples

- Percussion, Piano's,
- Strings, Brass,
- Metal Guitar, Bass,
- Layered Sounds,
- Effects Sounds

The list goes on and on...

Digitally Mastered

onto Chrome Tape

Send Cheques/P.O.'s payable to:

POWERAGE STUDIOS

12 St. Peters Footpath

Margate, Kent, CT9 1TL

Only
£6.95
Inc.
P&P

**This
4x1 column
space can
cost as little as
£40
per month**

**Fax your ad to
Music Technology
Classifieds on
0353 662489**

CLASSIFIED ADVERTS MUSIC TECHNOLOGY RATES

The following are just a few examples of the shapes and sizes available. The prices shown in the boxes represent the cost per month

2 cm.

£30
(+VAT)

1 column (4.4 cm)

3 cm.

£45
(+VAT)

1 column (4.4 cm)

6 cm.

£60
(+VAT)

1 column (4.4 cm)

4 cm.

£120
(+VAT)

2 column (9 cm)

Please note to qualify for these introductory rates i.e. £15 (plus VAT) per column cm your initial booking must be for three months. To advertise please send your copy & cheque (including VAT) for the first advertisement to:

MUSIC TECHNOLOGY (Classified Department), Alexander House, Forehill, Ely, Cambridgeshire CB7 4AF

or telephone:

Colin McKee
on

0353 665577

ADVERTISERS' INDEX

ABC Music.....76	Music Control.....70
AMG.....6, 7	NJD.....59
Akai.....41	PC Services.....84
BEM.....78	Patchworks.....85
BCK.....87	Peavey UK.....21
Eddie Moors Music.....66, 67	Phillip Rees.....26
Ex Analog.....20	Pro Music.....87
Gigsounds.....IFC	Roland UK.....4
Harman.....25	Silica Systems.....45, 73, 77
Intasound.....69	Soho Soundhouse.....88, 89
JHS.....53, 75	Soundivision.....81
Key Audio.....11, 60	Soundscape.....IBC
Korg UK.....57, 62, 63, OBC	Stix Music.....84
Metra Sound.....65	Technics.....30, 31
Millenium.....69	Time & Space.....34, 35, 37
Music Connections.....14, 15, 16, 17	Torque.....72

Classifieds

(see pages 96 to 98)

Advanced Sound Hire	HomeTech Music Club
Analogue Systems	Hurricane Studios
Big Time Productions	Media Productions
Capital Mamba	Mig Music Services
CIS International	Newtronic
Claimlink	On-Q Productions
Copytime	PMS
Sam Griffiths	Powerage Studios
Groove Factory	Recording Workshop
HMK	SAE
Hands On MIDI	Selecta Sound
Music	Stage One Music
Heavenly Music	Studio Hire

SOUNDSCAPE

MULTI-TRACK HARD DISK RECORDER

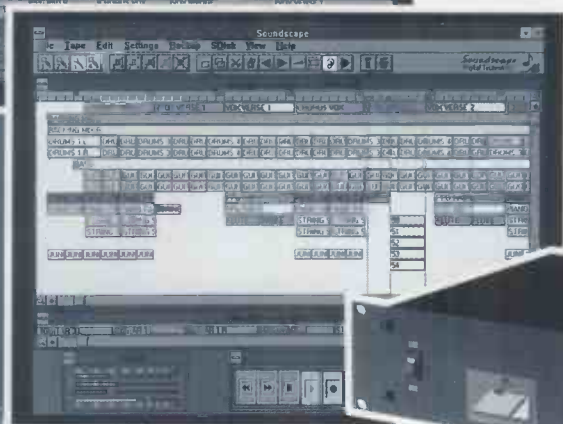
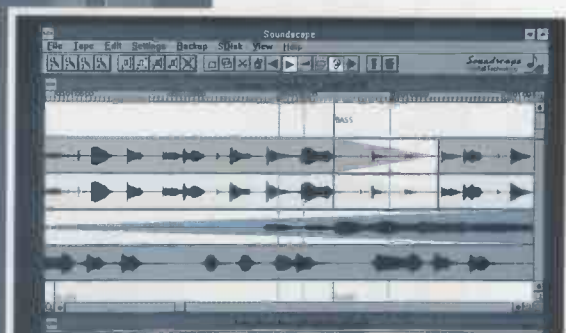
"Soundscape could well find itself replacing the analogue tape recorder in many a studio up and down the country . . . a welcome addition to any studio set-up for the sheer freedom it offers when

it comes to laying down tracks quickly and easily in order to make the most of that creative muse".

Bob Walder, Music Technology, July '93

"I've been playing around with a pre-release version of the Soundscape Hard Disk Recorder this week and feel almost as though I've had a religious experience".

Brian Heywood, Midi Monitor, June '93



- ▶ Modular up to 64 real tracks (16 rack units)
- ▶ Professional studio quality A/D's and D/A's
- ▶ Runs under Windows 3.1 on IBM PC™ or compatible with any Windows™ MIDI sequencer package
- ▶ Full 'chase lock' synchronisation to MIDI time code
- ▶ DAT back-up (S/PDIF) as standard
- ▶ AES/EBU digital and balanced XLR analogue inputs and outputs (optional)
- ▶ Very fast non-destructive editing
- ▶ Automated mixing, with 64 'virtual' tracks per module

Name _____
Address _____

Post Code _____
Telephone _____

Please send me a colour brochure on the Soundscape Hard Disk Recorder

Please return to: Soundscape Digital Technology Ltd., 26 Castell Coch View,
Tongwynlais, Cardiff CF4 7LA, United Kingdom

SDT/001



SOUNDSCAPE DIGITAL TECHNOLOGY LTD

26 Castell Coch View,
Tongwynlais,
Cardiff CF4 7LA,
United Kingdom

Cardiff: + 44 (0) 222 811512
London: + 44 (0) 895 810259



**WITH A KORG 'O' SERIES
YOUR SET WON'T BE DISC AFTER DISC,**

IT'LL BE SONG AFTER SONG.

There's nothing worse.
You've got the audience hanging
on your every note, baying for more.

Instead, all they hear is the silence
while you load up the disk for your next song.

It can kill a live set stone dead. But now,
Korg have come up with the perfect solution: a
48,000 note internal sequencer that lets you play
your songs one after another without having to
play computer operator.

Clever? You've heard nothing yet.

'O' Series keyboards have 32 voices, giving
plenty of capacity for the richest arrangements
without any risk of sounds being suddenly
'snatched' away.

On top of that, each of those voices has its
own enhancement circuit, letting you achieve
almost infinitesimal variations in the texture and
colour of sound.

There are even two samples per
programme, allowing you to create
stereo voices without tying up your FX.

If you like the sound of all this write to
Korg (UK) Ltd. 8-9 The Crystal Centre, Elmgrove
Road, Harrow, Middlesex HA1 2YR and find out
more about the 'O' Series. The keyboards that
make performances less of a performance.



KORG
BREAKING SOUND BARRIERS