

Broadcast
ENGINEERING
THE JOURNAL OF DIGITAL TELEVISION®

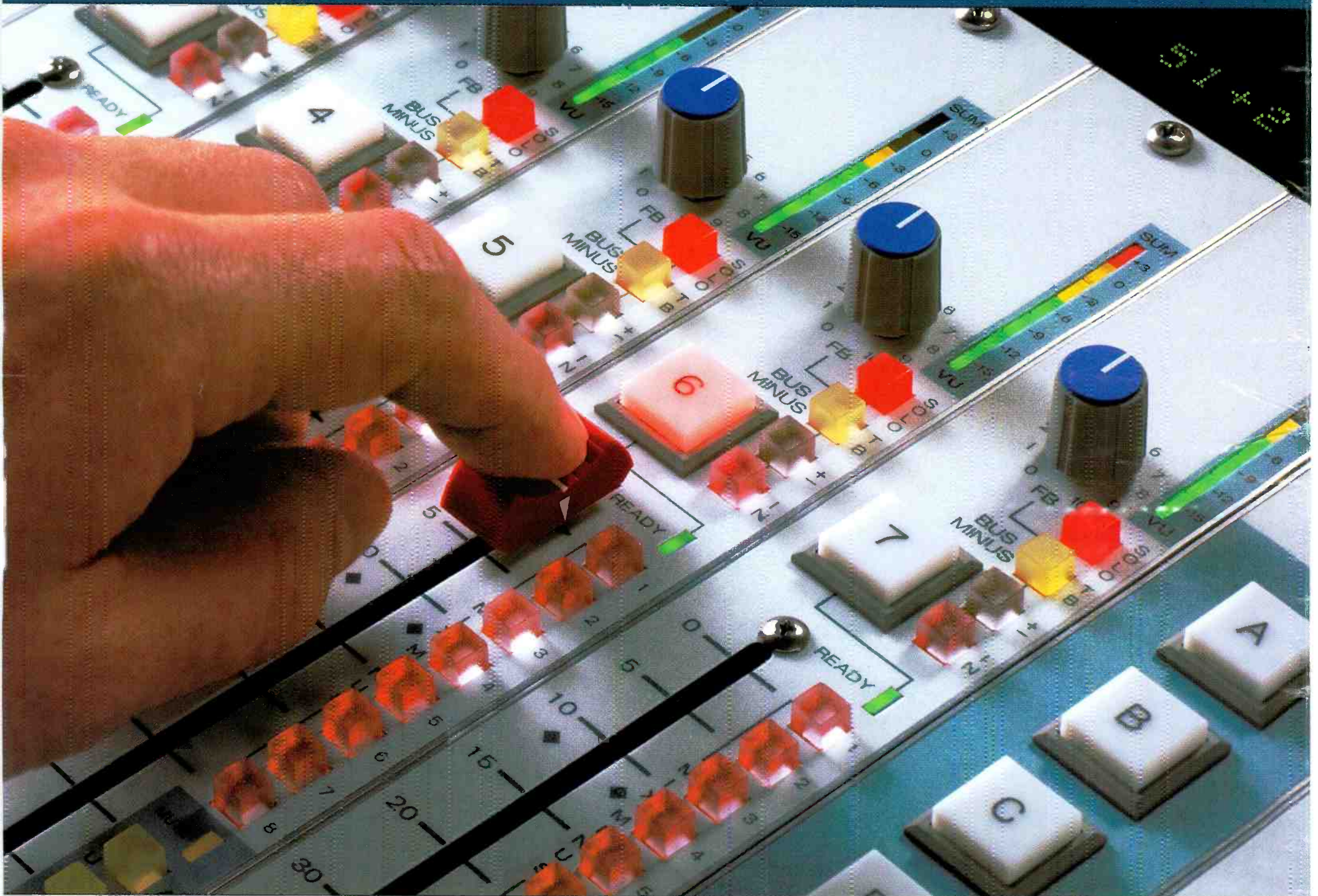
Vol. 42 No. 6
An INTERTEC®/PRIMEDIA Publication

PRODUCT SOURCE

BROADCAST ENGINEERING'S NAB 2000



How Do You Handle DTV Surround Sound and TV Stereo at the SAME TIME?



with **ONE FINGER!**

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from WHEATSTONE CORPORATION.
With 5.1 + 2 Surround Sound.

 **Wheatstone**

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tel 252-638-7000 / fax 252-637-1285 / sales@wheatstone.com

Harris DiamondCD™ UHF DTV Transmitter—A Clear Migration Path

Harris DiamondCD Solid-State UHF DTV transmitters are now available for applications requiring less than 2 kilowatts of power and can be field-upgraded to 34.5 kilowatts. The key to DiamondCD's expanded power range is a new RF power amplifier module. Each hot-pluggable DiamondCD PA module now provides 600 watts of output power. Broadcasters can initiate digital service with a four-module DiamondCD and then add modules in blocks of four and ultimately up to five PA cabinets as their power requirements increase. Using new LDMOS devices to achieve greater power density, DiamondCD's new RF PA module is also more efficient for reduced cost-per-watt of transmitter power.



Circle 106 on Free Info Card

MASTERplus™ Simplifies Digital Master Control

The revolutionary MASTERplus from Harris offers broadcasters an alternative to rack-eating, multi-box systems by combining the functions of an HD upconverter, a graphics keyer, a test pattern generator, and video and audio mixers onto a single circuit board, designed to work with the Harris FlexiCoder MPEG-2 Encoder. Compatible with multiple formats (1080i, 720p, and 480p 60HZ), this software-based approach replaces up to 13 components and provides seamless switching between local standard definition (SD) material and HD network and HD network programming, local branding, voiceovers, etc.



Circle 107 on Free Info Card

Sigma®CD, Industry's Best Selling DTV Transmitter, Incorporates New Features

Harris SigmaCD IOT DTV transmitters now feature a new intermediate power amplifier (IPA) that improves serviceability and efficiency. Harris has incorporated the amplifier module used in its DiamondCD transmitters into its third-generation SigmaCD Diamond Drive IOT DTV transmitter. The hot-pluggable Diamond Drive IPA not only maintains outstanding signal-to-noise and intermodulation distortion performance but, when used with the SigmaCD's pre-corrector (SD-1), this IPA eliminates the need for feed-forward circuitry, further increasing overall transmitter efficiency and simplicity.



The SD-1 provides non-linear correction individual PA cabinets in the Sigma CD, ensuring that each IOT provides optimal full-power performance while meeting the FCC's stringent mask requirements.

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NETplus™ Breaks New Ground in High Definition (HD) Media Acquisition

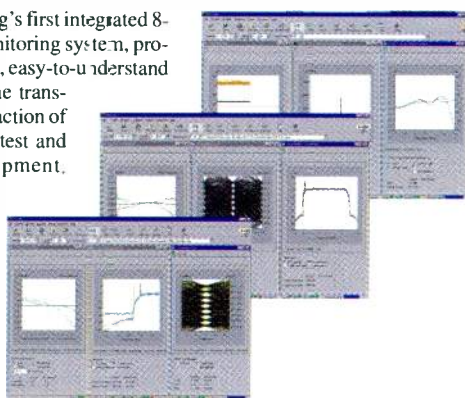
NETplus is the first box that distributes professional profile video (MPEG-2 4:2:2) and decodes it at the receiving end. It offers broadcasters the best of both worlds by supporting traditional satellite distribution in 8PSK, QPSK, and 16QAM RF input formats as well as emerging telco delivery methods including DVB-ASI, DVB-SPI, SMPTE 310M, and ATM transport stream inputs. It also offers decryption capabilities that are compliant with DVB A01 Rev. 1 via PCMCIA interface, and Harris has additional plans for encryption capabilities in the works.

RF Input Formats	8PSK, QPSK, 16QAM
Transport Stream Inputs	DVB-ASI, DVB-SPI, SMPTE 310M, @.703
Video Formats	HD MPEG-2 4:2:0 Profile @ high level; HD MPEG-2 4:2:2 Professional Profile @ high level
Audio	AES3 compliant two channels compatible with Dolby E
Decryption	Compliant with DVB A01 Rev.1 via PCMCIA interface; supports multiple internal and fixed decryption algorithms

Circle 109 on Free Info Card

CD Eye™, Broadcasting's First Integrated DTV Transmitter Monitoring Option, Available with All Harris DTV Transmitters

CD Eye, broadcasting's first integrated 8-VSB transmitter monitoring system, provides comprehensive, easy-to-understand information about the transmitted signal for a fraction of the cost of external test and measurement equipment. Available with all Harris DTV transmitters, this software-based option works with Harris' CD 1A 8-VSB DTV exciter equipped with Real-Time Adaptive Correction (RTAC™). CD Eye transfers data packets (the *ideal* signal, the system *output* signal, and the *pre-correction metrics*) from the exciter's serial port to a Windows NT® or Windows® 95/98 personal computer. CD Eye's client software processes transmitter system data and presents time, frequency, and modulation domain analysis on a directly connected PC at the transmitter site. Data can also be accessed remotely via modem.



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LINKplus™ Provides Cost-Effective Video Transport

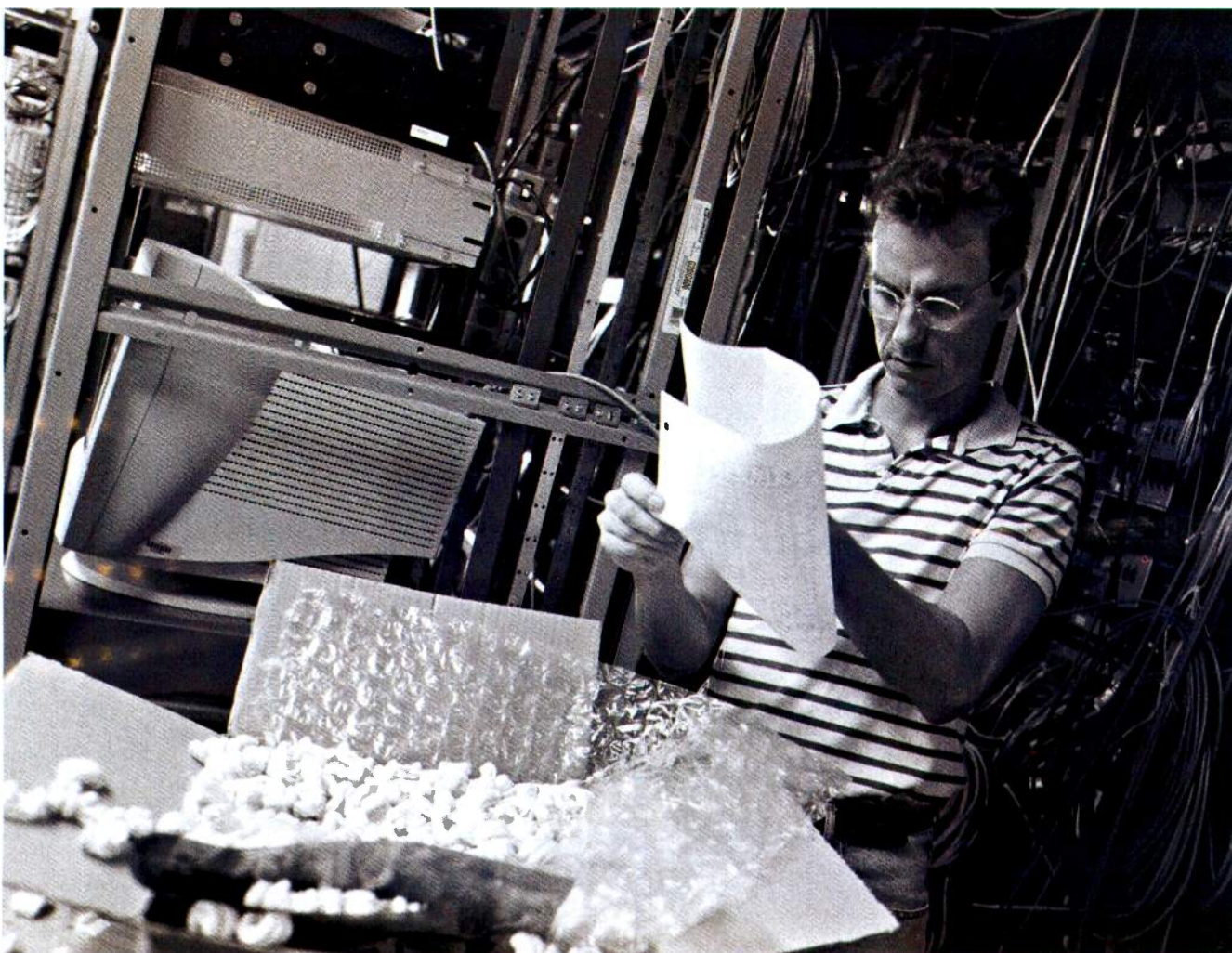
LINKplus provides broadcasters with new technology to link existing facilities by using cost-effective ATM networks to distribute MPEG-2 video and audio. LINKplus acts as a bridge to carry video between your studio and transmitter site, cable headends or any location via telecommunications service. And because it's telco-based, it has the added capability of bi-directional communication. It has interfaces to transport digital, standard definition and high definition video at speeds up to 155Mbps and supports the ATM Adaptation Layer 5 (AAL5) and ATM adaptation Layer 5 and 1 (AAL5 and AAL1). It also delivers IP and serial data over the same communications link used to transport video and remotely manage modulators and transmitters.

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NewSource™ TV News Solution Links Newsroom Computers to Broadcast Automation

Now you can increase the efficiency and timely coordination of newscast and control room applications with NewSource from Harris Automation Solutions (formerly Louth). With NewSource, a Louth ADC, and a newsroom computer, broadcasters can control video servers, VTRs, and cart machines in the control room—all from a single system. NewSource instantly transfers the news rundown to the automation system, which controls all the broadcast devices. The link between the ADC and the newsroom computer is dynamic and real time, so any changes to the rundown immediately update the playlist. The combination of the ADC and NewSource can also provide interstitial control, creating a complete newscast and commercial automation solution.

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Bubblewrap, no challenge. Taking advantage of the technology inside, not so fast.

You have brand new, high-tech, shiny digital equipment. Now, how are you going to get the most out of it? Harris can help. Many broadcasters work with us to engineer transmitter systems, studios and mobile facilities with the latest digital technology. But we also reach beyond future-ready equipment solutions by leading the way with a unique package of support services—from transmitter installation and systems integration to round-the-clock technical support. And our Broadcast Technology Training Center provides customized DTV instruction to help your station make a smooth transition to digital. It's all from Harris. Because getting through the bubblewrap should be the hardest part of going digital.

1-800-4-HARRIS ext.3042 ■ www.harris.com

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PRODUCT SOURCE

BROADCAST ENGINEERING'S NAB 2000

Psst, need some new technology? Looking for a replacement for that old, out-of-date VTR, switcher or transmitter? How about starting that streaming website? Still missing some pieces to finish that studio?

Solutions to these dilemmas and more are right here. The *Broadcast Engineering* editors reviewed more than 500 new products and services to prepare this special coverage of new products. Included in this coverage are some of the newest items revealed at the recent NAB2000 convention and from other last minute resources. Our goal is to give you an early look at what's hot and available to help solve problems. So if you're looking for answers, they're just a page or so away.

Enjoy and be the first in your city to implement the answers your station or production facility needs to stay ahead of the pack.



Brad Dick
Editor

On The Cover

Cover products, clockwise, starting top right:

- Videotek Digital Prodigy
- Wheatstone TV 1000
- SGI 1600SW
- Sony MSW-2000
- Grass Valley Group Profile XP

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BROADCAST ENGINEERING is edited for corporate management, engineers/technicians and other management personnel at commercial and public TV stations, post-production and recording studios, broadcast networks, cable, telephone and satellite production centers and networks. Qualified persons include consulting engineers and dealer/distributors of broadcast equipment.

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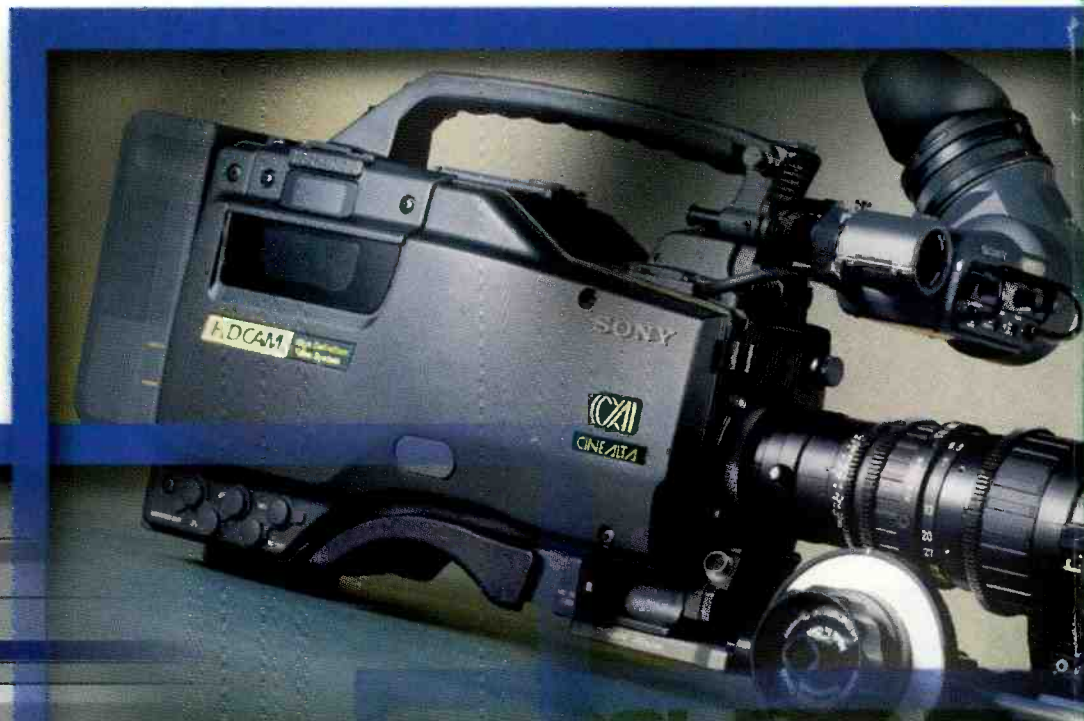
Virtual Monitor Wall Processor



◆ Photograph of the WETA-TV, Washington, D.C. Master Control provided by broadcast designer and integrator, Communications Engineering, Inc. (CEI) Newington, Virginia (www.comeng.com)

complete the picture™

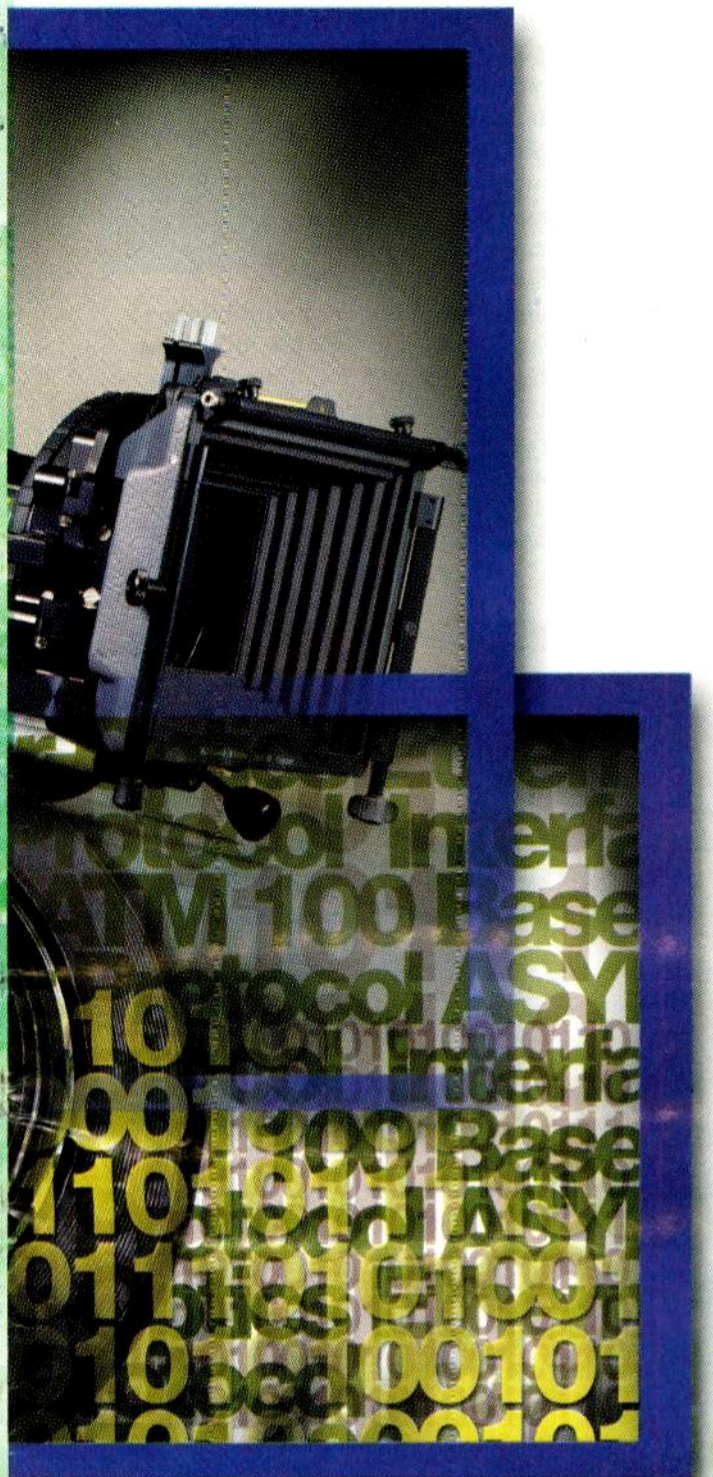
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▲ MPEG PRODUCTION/DISTRIBUTION



▼ HD ACQUISITION



▲ NETWORKING

HD or SD? SX or DV? MPEG? Film? Video? If you're in broadcast or production, Sony can help complete the picture for your application. Based on your existing equipment. Your business realities. And your idea of where

you want to go. We'll help you complete your acquisition picture. With the right solution for events of any magnitude. With 24P, 30P or 60i HDCAM® camcorders, the defacto leaders for HD acquisition. Digital Betacam® equipment, the high-end SD production choice. Or Betacam SX® and Betacam SP® gear, for news acquisition and MPEG system migration with the new MPEG IMX™ VTR that plays back all Betacam® format tapes. Building on our 1/2" legacy of leadership – and keeping our lasting commitment that nobody gets left behind.

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Expanded feature set



360 Systems TCR/8: designed to provide multichannel audio acquisition and playback for broadcast and production applications; provides a measurable improvement of 20dB in SNR and dynamic range over conventional designs and offers bit-for-bit reproduction of 24-bit PCM, Dolby-E and AC-3 recordings; recordings can be stored on a 9GB internal hard disk, 250MB zip disks or DVD-RAM, all standard equipment; includes a DVD-RAM drive; DVD-RAM disks will hold up to 10 hours of uncompressed 24-bit audio with random access and the ability to play back selected tracks in real time; now also features direct file interchange of WAVE and SD-II files, multi-machine sync for up to 64 tracks, complete timecode implementation, P2 VTR emulation, cut-copy-paste editing, and hard lock to Digital Betacam for tight sync during scrub-edits. Available in a version that offers 96kHz and 88.2kHz sampling; 818-991-0360; fax: 818-991-1360; www.360systems.com

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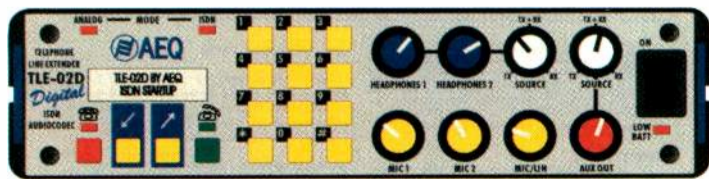
UHF solid state transmitters up to 50kW

ADC Broadcast Innovator Series: high-power solid-state UHF transmitters available in power levels up to 120kW analog and 60kW digital using LD MOS transistor technology; offers parallel amplifier design and n+1 power supply configuration; 800-215-2614; 724-941-1500; fax: 724-941-4603; www.adc.com/broadcast

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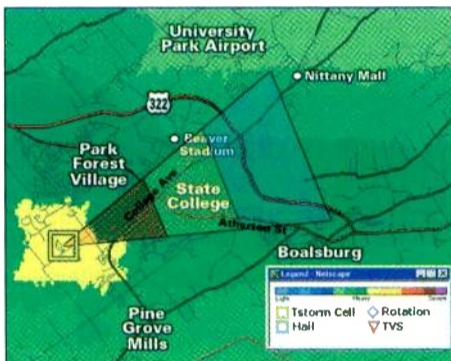
ISDN codec/POTS extender

AEQ TLE-02D: offers three units in one box: an audio codec, with terminal adapter, to establish high-quality connections on ISDN lines with low delay codings; a digital hybrid, with echo suppression and frequency extender, for use on analog telephone lines; and a portable mixer, with returns, headphone amplifiers and four wire (I/O) connection to use on dedicated circuits and radiolinks; includes double system power supply through standard dry cells or external transformer; two microphone inputs and one mic/line, with level controls; two headphones outputs, with independent level control and monitor signal selector; +34 91 686 13000; fax: +34 91 686 44 92; www.aeq.es



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Radar and weather system



AccuWeather FirstWarn Neighborhood Nexrad: new features include ability to set color schemes, echo levels and animate selected echo level; users can also animate projected severe weather movement; control the StormPath analyzer box and display an accurate display of radar data at street level; 800-566-6606; 814-237-0309; fax: 814-235-8609; www.accuweather.com

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Dual NTSC/ATSC transmitter



Acrodyne Industries Adjacent Channel Technology: capable of simultaneously transmitting NTSC and DTV signals; capable of either N+1 or N-1 operation; possible to change from NTSC to DTV output power ratio during the transition to full-time DTV; allows use of single transmission line and common antenna for both NTSC and DTV, reducing tower load; 800-523-2596; 215-542-7000; fax: 215-540-5837; www.acrodyne.com

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Microwave transmitter

Adaptive Broadband MRC CodeRunner 2.7: extends CodeRunner family to the 7GHz band; offers option of incorporating dual-band operation (2- and 7GHz) with a single van transmitter; 978-671-5700; fax: 978-671-5903; www.adaptivebroadband.com

Circle (256) on Free Info Card

HD digital disk recorder

Accom WSD/HD Digital Disk Recorder: incorporates significant advances in storage and disk control technology; designed for electronic film, graphics/effects and editing application in a network, multi-user, multifunction environment; can record/play SD/601 digital as well as HD formats, including 24p, on a clip-by-clip basis; provides flexibility for work at any resolution; 650-328-3818; fax: 650-327-2511; www.accom.com

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Master control equipment

AgileVision AVG-1000: allows broadcasters to achieve master control multifunctionality without decompressing or recompressing the DTV signal; functions include processing and pass-through of compressed SDTV/HDTV programming with insertion of local station logo, PSIP, datacast, commercial and program content and emergency alert system announcements; 609-514-4030; fax: 609-514-4029;

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Digital broadcast console

AMS Neve Libra Live Series II: this digital broadcast console provides a digital control and digital signal path and full processing in every channel; it also features multi-format surround sound options and 24-bit analog and digital interfacing, as well as mix-minus, GPI and other broadcast-specific facilities; 888-888-6383; 212-965-1400; fax: 212-965-3739; www.ams-neve.com

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Hi-res-to-video studio scan converter w/ genlock

Analog Way XTD 820 R: compatible in input with all resolutions between 640x480 to 1600x1280; converts images on all video supports including RGBS, Component, S-Video and NTSC/PAL; available with a digital video output D1 (4:2:2) and offers a Genlock and Zoom 200% function; 212-269-1902; fax: 212-269-1943; www.analogway.com

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Optimized antenna structure

Andrew STACKER: offers high-antenna density without the tradeoffs of in-line stack design or the expense of a candela-br or t-bar; service access to each antenna is preserved because there is no mechanical interconnection between antennas; the design is flexible so that any antenna may be replaced while the structure remains on the tower and the stations remain on the air; features superior azimuth pattern performance and lowest windload per antenna; 800-DIAL-4-RF; 708-349-3300; fax: 708-349-5444; www.andrew.com



Circle (262) on Free Info Card

Sports application lens

Angenieux 60x9.5HD lens: a lens for sports applications, delivers high range with high levels of optimal performance; provides distortion free images with no chromatic aberration for optimal high-definition and image clarity; 973-812-3858; fax: 973-812-3858; www.angenieux.com

Circle (263) on Free Info Card

Camera-mounted lighting system

Anton/Bauer ULTRALIGHT: new accessories complement the on-camera light; special purpose heads, lighter weight and special system package make studio-quality lighting in the field easier; 800-422-3473; 203-929-1100; fax: 203-925-9935; www.antonbauer.com

Circle (264) on Free Info Card

Distribution matrix

AutoPatch Epica-256: aimed at applications that require large growth capability; features modular architecture allowing designers to start as small as 16 inputs by 16 outputs and scale the system up to a full 256x256 per signal type in the field; ultra-wideband bandwidth specifications are 300+MHz in a fully loaded condition; 800-622-0246; 509-235-2636; fax: 509-235-2646; www.autopatch.com

Circle (266) on Free Info Card



Statistical multiplex controller

BARCO Regulus: a statistical multiplex controller with IP capability; offers advanced, user-controllable bit-rate control that liberates bandwidth for other services; 800-992-5016; 770-590-3600; fax: 770-590-3610; www.barco.com

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Introducing Harris Automation Solutions. Louth, the leader in broadcast automation, is now part of Harris Corporation's Broadcast Communications Division, an industry leader in digital and analog broadcast technology. Harris Automation Solutions is your source for industry-defining technology backed by unparalleled customer service and support. So as you create and implement your vision for DTV, multi-channel, and global networks, Harris Automation Solutions will be there with the proven solutions you'll be sold on. Just like we were.

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96k audio analyzer



Audio Precision System Two Cascade: features both 96kHz and 192k digital sampling rate capability; companion model System Two+DSP, with the new platform improvements but without digital I/O, is also available as well as a cascade digital-only model, SYS-2500A; harmonic analyzer is capable of individual and group harmonic distortion measurements; the company also has introduced APWIN 2.0; 800-231-7350; 503-627-0832; fax: 503-641-8906; www.audioprecision.com

Circle (265) on Free Info Card

HDTV stillstore

Avica Vecta HDTV stillstore: this still/clip store supports all digital formats and allows simultaneous viewing of standard and high definition images; there is support available for the 1080p/24sF image format, and up- and downconversions between all image formats; the stillstore may be used as a stand-alone or networked workstation; 800-706-0077; 818-846-0589; fax: 818-846-0175; www.avicatech.com

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Streaming media publishing tool

Avid ePublisher: complete streaming media publishing tool developed to simplify the production, encoding and distribution of streaming media content; allows users to capture, edit or re-purpose video content for the creation of HTML-based interactive multimedia content; content can be published to the Web, CD or DVD; also offers a timeline-based feature for synchronizing output; 800-949-AVID; 978-640-6789; fax: 978-851-0418; www.avid.com

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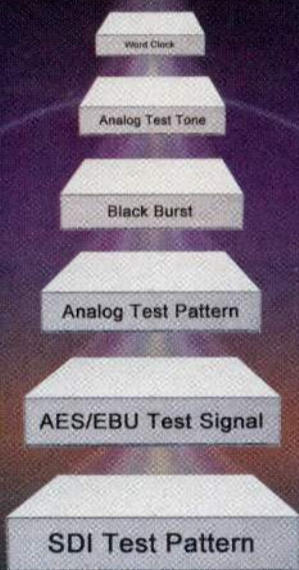
Aspect ratio converter

Axon Digital Design ARC-3000: this 19-inch, 1RU unit offers quality, optimized conversion for post-production and broadcast applications; all major controls and presets can be accessed via the unit's control panel, which includes a comprehensive jog dial rotary encoder; up to 16 pre-sets, including horizontal scale, horizontal pan, vertical scale, vertical tilt, GPI output selection and output timing, can be stored in the nonvolatile memory; +31 13511 6666; fax: +31 13 511 4151; www.axon.nl

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HD coaxial cable

Belden Brilliance Riser Rated High-Definition Coax: RG7 HD coaxial cable features a 16AWG solid copper conductor, gas-injected foam high-density polyethylene dielectric for superior crush resistance, a foil/braid shield and PVC jacket; 800-BELDEN1; 765-983-5200; fax: 765-983-5294; www.belden.com

Circle (271) on Free Info Card

Audio A/D converter system



Benchmark AD2408-96: an eight-channel audio A-to-D converter, provides word lengths of up to 24-bit and sample rates up to 96kHz; THD+N is -110dB measured at -1dB FS and the A-weighted dynamic range is 120dB; features include selectable 16, 20 and 24-bit word lengths and 96kHz to 48kHz sample rate conversion; 800-262-4675; 315-437-6300; fax: 315-437-8119; www.benchmarkmedia.com

Circle (272) on Free Info Card

Carbon fiber tripods

Bogen Manfrotto Carbon One series: uses a three faceted, 1/2mm thick carbon fiber tubes; provides efficient vibration dampening and durability; also incorporated Manfrotto clamping technology combined with lightweight magnesium castings; 201-818-9500; fax: 201-818-9177; www.bogenphoto.com

Circle (273) on Free Info Card



Rendering engine

BOXX Technologies RenderBOXX: features 800MHz Pentium III or Xeon or Alpha processors; multiple cabinets can be connected to deliver the rendering power of up to 1000 processors; supports all material libraries and 3D animation software including 3D Studio MAX, Maya, Softimage and LightWave 3D; render management software takes advantage of multiprocessor configuration to reduce rendering times and increase workflow; 877-877-BOXX; 512-835-0400; fax: 512-835-0434; www.boxxtech.com

Circle (274) on Free Info Card

ATSC/NTSC STL

Broadcast Microwave StarLink: simplified operation with internal MPEG-2 encoder, variable bit rates and options for 4:2:0 or 4:2:2 operation, preprogrammed CODM/MPEG modes for ease of operation; 800-669-9667; 858-560-8601; fax: 858-560-1637; www.bms-inc.com

Circle (275) on Free Info Card

Digital downstream linear keyer



Broadcast Video Systems Masterkey 7: provides high-quality linear keys with fully adjustable transparency, as well as A/B mix, wipes, split screen, chroma key, 4:3 and 16:9 safe area graticules, key masking, preview output, failsafe bypass, GPI's and full control panel memory; the front control panel may be unplugged and remoted; 905-764-1584; fax: 905-764-7438; www.bvs.on.ca

Circle (276) on Free Info Card

Digital routing system

Chyron Eclipse:

a large-scale digital routing system, offering HD and true field expansion in a package for digital video, ASI, SDH STM-1 and PDH E4 routing; each Eclipse router is made up of I/O frames providing 128 inputs and 128

dual outputs respectively; 516-845-2000; fax: 516-845-3867; www.chyron.com

Circle (278) on Free Info Card



Single- and double-ear headsets

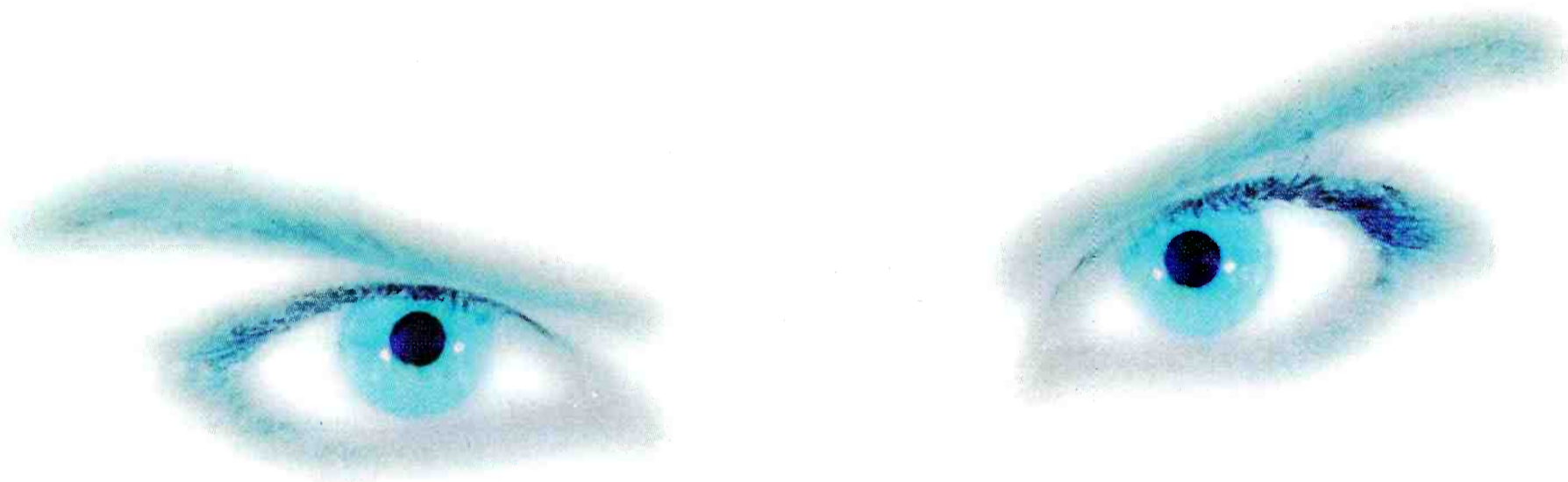
Clear-Com Systems CC-95 and CC-260: designed for intercom applications; feature custom foam-filled ear cushions that provide acoustic isolation in moderate noise level environments; the flexible boom arm features a specially designed, noise-canceling microphone; 510-496-6666; fax: 510-496-6699; www.clearcom.com

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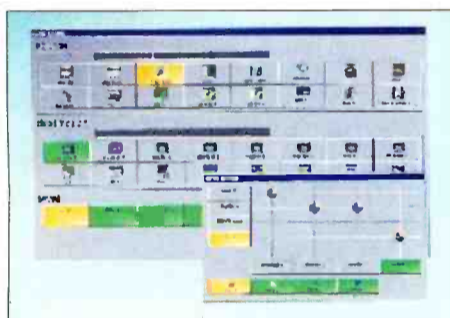
Portable mixing console



Calrec Audio Ltd M3: available in two frame sizes; the 19" rackmount version is a 10x4x2 and the desktop version is a 20x4x2; features include four auxiliary sends, choice of input module types and a mix-minus send on each input; offers an internal power supply; monitor section has multiple source selection, control room, studio and headphone outputs, and LED bargraph meters; +44 1422 842 159; fax: +44 1422 845 244; www.calrec.com

Circle (277) on Free Info Card

Router control system



Chyron Aurora: incorporates a scalable hardware platform to control up to 20 independent routing switchers, each with 16 levels of 2048x2048; available in four variants with options for backup processors; provides single matrix control that can be upgraded in the field for full multimatrix operation; 516-845-2000; fax: 516-845-3867; www.chyron.com

Circle (279) on Free Info Card

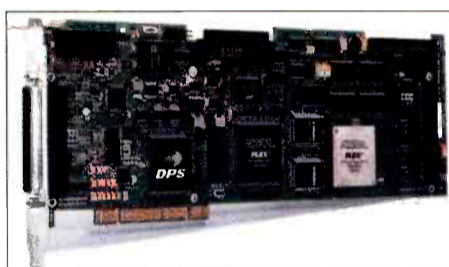
HD/SD graphic systems



Collage Graphics Clarity SD/HD: real-time, multilayer, multiformat HD graphics systems; runs HD formats up to 1080p at 24-, 25-, 50- and 60Hz rates; offers production-level paint, stills store, real-time animation effects, transition effects, event sequencing and motion effects; SD configurations include dual channel HD, single-channel HD and dual-channel SD and quad-channel SD; 561-395-4000; fax: 561-395-4065; www.pixelpower.com

Circle (281) on Free Info Card

Uncompressed studio DDR



Digital Processing Systems/DPS dpsReality V 2.0: update of the popular dpsReality system adds features such as real-time output to popular Web-based streaming media formats and real-time output to multicast web servers, along with deck emulation, support for every major studio file format, improved networking, expanded audio effects and an all new compositing interface with a direct connection to eyeon Software's Digital Fusion Version 3.0; 606-371-5533; fax: 606-371-3729; www.dps.com

Circle (288) on Free Info Card

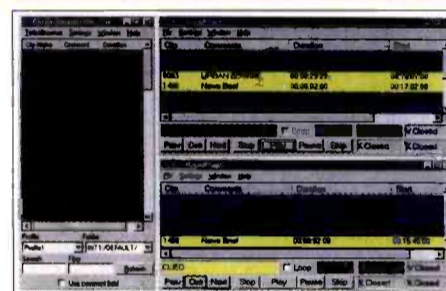
Database management system



Columbine JDS Paradigm: end-to-end system allows single- and multistation operators to manage every aspect of the media business; ties all the key elements in the media management process together and introduces new efficiencies in departmental communications; modules include Paradigm Traffix, Program Control, Material Manager, Digital Manager, Transmission Manager, Proposer, MCAS master control automation system, Report Manager, and Billing and A/R; 303-237-4000; fax: 303-237-0085; www.cjds.com

Circle (282) on Free Info Card

Master control automation



Crispin RapidPlayX 2000: multi-channel playback/record control used for Master Control or News Control; runs on Windows NT; user screen is configurable; offers ability to link up to three channels of playout to a single channel; 919-845-7744; fax: 919-845-7766; www.crispincorp.com

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TV facility automation

Columbine JDS LinkServer: links information between CJDS-DAL automation systems and CJDS traffic systems, creating a unified station database; results in near real-time information exchange between the traffic schedule and the on-air schedule; 303-237-4000; fax: 303-237-0085; www.cjds.com

Circle (283) on Free Info Card

RF amplifier



CPI Eimac K2 Squared IOT power amplifiers: at heart of unit is the K2 Klystron IOT coupled with compact ergonomic cavity hardware; unit is an advanced Electro-Magnetic-Compatibility designed input circuit that isolates the RF input from the transmitter DC high voltage; has a stable, out-of-the-way storage position and uses a cam-guided insertion mechanism to ensure positive connection to the IOY; offers more efficient IOT cathode and cavity cooling because of new air plenum design; 800-414-TUBE; 650-592-1221; fax: 650-592-9988; www.eimac.com

Circle (284) on Free Info Card

Compression preprocessor

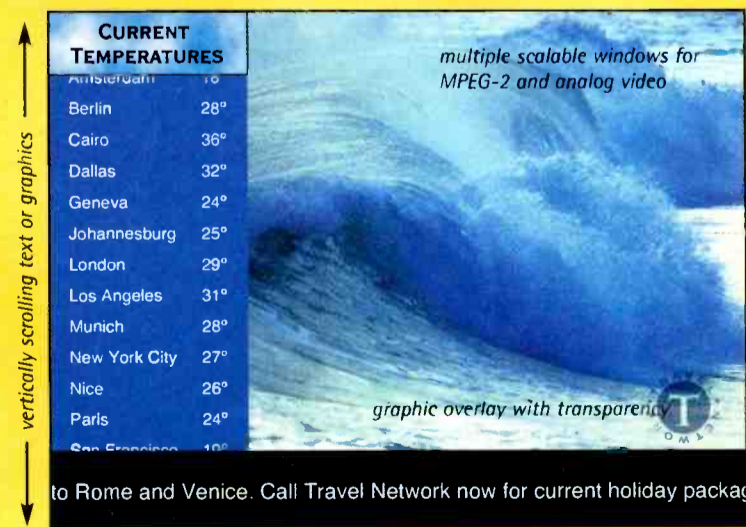


Digital Vision BitPack-HD: HD offline or premastering system for video servers and DVD; offers a cost-effective path to create HD files for 1080i/720p formats using the same BitPack control environment as standard definition; provides high picture quality and system flexibility with integrated machine control and automatic frame-accurate encoding as well as playback; NT interface enables project management, graphical encoding control and quality analyses; 888-914-5200; 310-914-5200; fax: 310-914-0011; www.digitalvision.se

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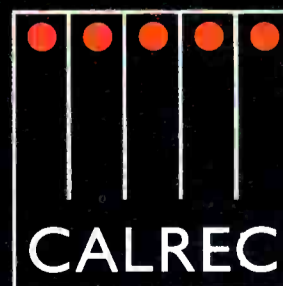
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Virtual set design

Devlin Design Group DDG SoftSet-Lite: provides a first-step virtual solution, other products to be highlighted include Softset, capable of developing complete virtual sets for a variety of applications; DDG offers design services worldwide from moderate makeovers to full-blown, high impact news rooms and news sets, facility and space planning; 858-535-9800; fax: 858-455-6989; www.ddgtv.com

Circle (287) on Free Info Card

Multichannel audio tool



Dolby Laboratories DP570: lets producers and DTV broadcasters optimize the presentation quality of an multichannel audio mix; combines Dolby Digital metadata selection and receiver emulation to enable creation of audio metadata for multiple programs and the monitoring of changes; features include multiple speaker selection, audio channel routing and 5.1 channel monitor configuration; 800-33-DOLBY; 415-558-0200; fax: 415-863-1373; www.dolby.com

Circle (290) on Free Info Card

10-bit uncompressed DVR with SDI

Doremi Labs V1U: a 10-bit uncompressed recorder featuring a serial digital interface (SMPTE259M, 270Mb/s); unit is 3RU high and front panel controls include jog/shuttle wheel, autolocator and audio input level controls, V1U is ITU601/SMPTE125M compliant, offering full screen NTSC and PAL resolutions, records field accurate, uncompressed video with four audio tracks and timecode; two RS-422 serial ports are available; 323-874-3411; fax: 323-874-3401; www.doremilabs.com

Circle (291) on Free Info Card



Multiservice network gateway

ECI Telecom mini Hi-TV: a compact multi-server network gateway optimized for TV contribution and distribution networking applications, enables the interconnection over WANs of TV facilities such as broadcast stations, network operations centers and production studios; complements the widely deployed Hi-TV product for smaller sites and provides all its benefits; +972 3 926 6844; fax: +972 3 926 6711; www.ecitele.com

Circle (292) on Free Info Card

On-air automation

FloriCal Systems AirBoss NT: controls a multiple-channel HD and SD presentation, featuring MPEG splicing of assets into a single stream for transmission by ATM to remote sites; unit is a 100 percent Windows NT presentation control system with TV frame-level precision; 352-372-8326; fax: 352-375-0859; www.florical.com

Circle (304) on Free Info Card

3D virtual set system

Evans & Sutherland Mindset Virtual Studio System: this virtual set system is Windows NT-based and adds increased functionality for easier use and the co-development of a weather interface with AccuWeather; 801-588-1661; fax: 801-588-4511; www.es.com

Circle (299) on Free Info Card

Server control for on-air playout



Editing Technologies Quartet: allows user to sequence one to many commercials, news or program elements per group; initiates each play-out group and preceding elements and initiates following elements within a group; elements can be entered, modified or deleted at any time within a pre-selected span prior to scheduled on-air time; 818-840-1101; fax: 818-556-3973; www.etcredit.com

Circle (293) on Free Info Card

Wireless microphone

Electro-Voice R100 wireless microphone system: features Secure-Phase diversity circuitry; operates in the range between 174,100 and 185.350MHz on single custom-tuned frequencies; receivers feature telescoping antennas for easy setup; 800-234-6831; 616-695-6831; fax: 616-695-1304; www.electrovoice.com

Circle (294) on Free Info Card

Media server

EMC Celerra Media Server: part of a complete media platform for management of audio, video and image assets; allows users to receive video content from multiple input sources, digitize the material, and encode it to high- or low-resolution versions; works with EMC's Symmetrix storage systems to provide an upgradeable and scalable storage foundation; 508-435-1000; fax: 508-497-8003; www.emc.com

Circle (295) on Free Info Card

Networked storage

EMC Symmetrix Network Media Storage (SNMS): its robust architecture provides a storage foundation that works with the Celerra Media Server for asset management; the integrated solution allows users to seek and retrieve content online in a variety of streaming formats and resolutions; 508-435-1000; fax: 508-497-8003; www.emc.com

Circle (296) on Free Info Card

Video & audio signal integration system

Ensemble Designs Avenue: provides audio and video signal conversion, distribution, synchronization and routing for broadcast and post; new 1RU frame holds up to three modules; new 8x1 and 8x8 router modules add video routing to system's capabilities; modules can be controlled by external router control panel; five channel digital to analog converter module performs conversion from serial digital video to analog composite video; 530-478-1830; fax: 530-478-1832; www.ensembledesigns.com

Circle (297) on Free Info Card

MPEG-2 decoders

Enseo/3DFX Quartet series: multiport MPEG-2 decoder with independent genlock retrieves MPEG datastreams from either the PCI bus or an ultra-wide SCSI interface, enabling the on-board MPEG decoders to simultaneously process four independent datastreams; 888-478-2687; 972-234-8750; fax: 972-680-7144; www.enseo.com

Circle (298) on Free Info Card

Video format converter



Folsom Research VFC2200: designed to implement dissolve, fade and clean synchronous switching between two video sources; VFC-2200 automatically locks to two interlaced or non-interlaced RGB/YUV inputs with resolution from 480i up to 2048x1280 progressive and directly scales them to a user-programmable output format with resolutions up to 1280x1024; unit contains two independently-programmable high-resolution scalars so inputs can be completely different resolutions and formats; 888-414-SCAN; 916-859-2500; fax: 916-859-2515; www.folsom.com

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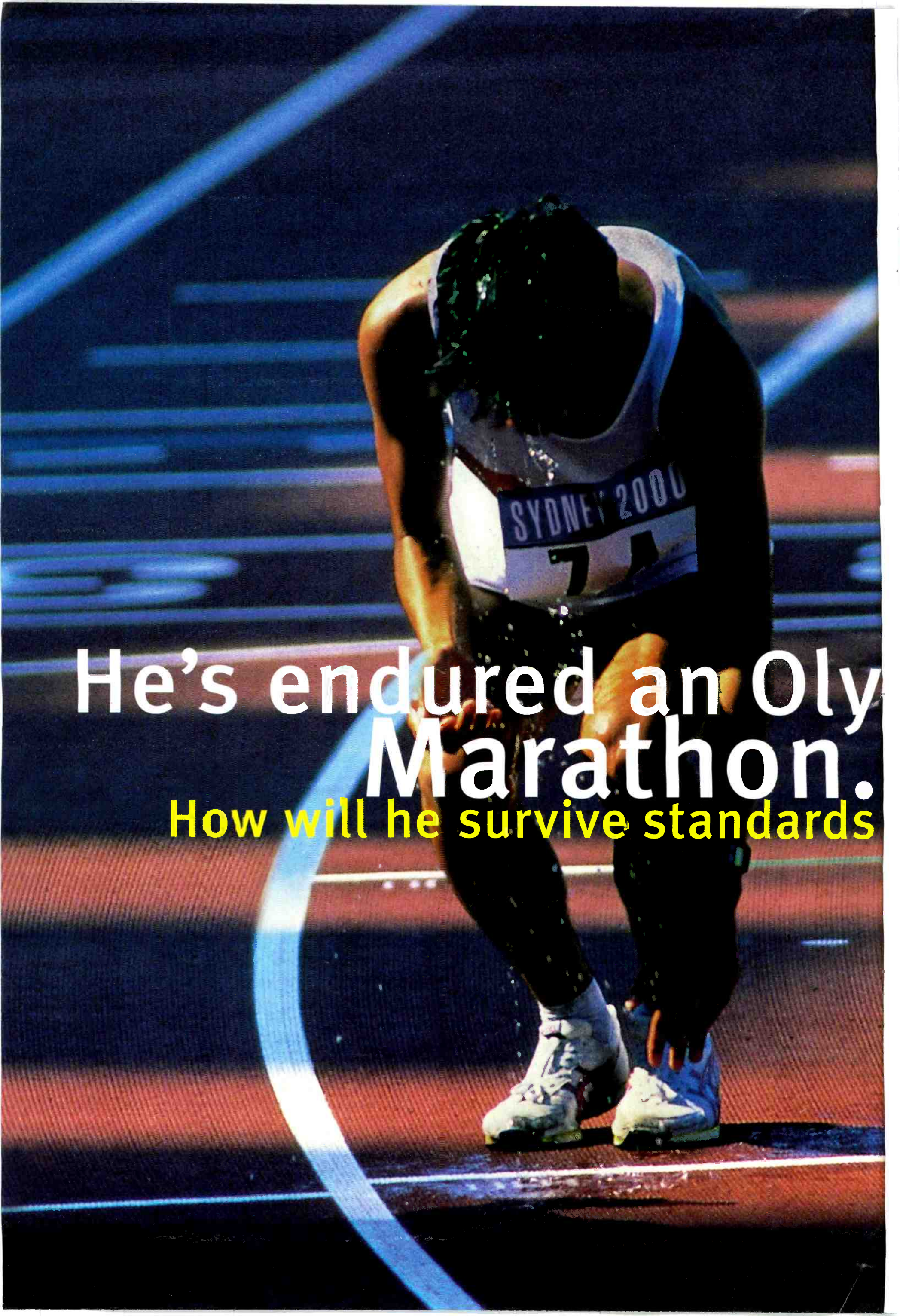


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Reclocking fiber conversion DAs

Evertz 7705EO-HD, 7705OE-HD: HD 7705OE-HD provides conversion from optical signals sent over fiber to two outputs reclocked of 1.5Gb/s serial video via coax; provides conversion of 1.5Gb/s serial video via coax to optical for signal distribution via fiber and distribution of two reclocked 1.5Gb/s serial video outputs; 905-335-3700; fax: 905-335-3573; www.evertz.com

Circle (300) on Free Info Card

Multivideo processor

Extron MVP 104: allows user to display up to four NTSC or PAL video signals simultaneously on a single screen; each video window may be independently scaled, positioned or overlapped so the user may display different window configurations such as picture in picture or quad splitting; provides 44 factory/user presets for convenient one-touch selection of different windowing configurations; 800-633-9876; 714-491-1500; fax: 714-491-1517; www.extron.com

Circle (301) on Free Info Card

Video processor



Faroudja Laboratories DVP5000: automatically upconverts 1080i HD signals to 1080p resolution; automatically upconverts 480p signals to 960p, while 720p signals pass through the device; standard 480i sources can be upconverted to 1080p, creating a film-like image from any source; 408-735-1492; fax: 408-735-1571; www.faroudja.com

Circle (302) on Free Info Card

Nonlinear editing system

Fast Multimedia FAST601 DV: this IEEE1394 I/O card features a new InTime Processor and allows FAST601 users to input DV footage directly from DV cameras; it works with all FAST601 systems and will allow Batch Capture and Print to Tape; 800-249-FAST; 425-354-2002; fax: 425-354-2005; www.fastmultimedia.com

Circle (303) on Free Info Card

Broadcast/production furniture

Forecast Consoles Image Master: modular components and custom-designed furniture for the broadcast environment; using an integrated pre-engineered component system, modules are modified and customized around existing equipment, into existing space, and to specific finish requirements; 800-735-2070; 516-253-9000; fax: 516-253-0277; forecast-consoles.com

Circle (306) on Free Info Card

HD master control processor module



Harris MASTERplus: a HD master control processor module designed to provide DTV stations with the functionality needed for HD broadcast operations; part of the Harris FlexiCoder family of DTV solutions; plugs into all existing FlexiCoder system enclosures; does the work of 13 devices typically needed to provide HD signals in a master control room environment; 800-622-0022; 513-459-3400; fax: 513-459-3890; www.harris.com

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Media platform

Grass Valley Group Profile XP Media platform: offers up to eight channels of broadcast-quality video per frame; with shared storage is able to support up to 32 channels accessing a common storage network; additional mainframes in a networked environment for hundreds of channels; easily upgradeable from SD to HD; new features

include the InSync software which provides automatic mirroring software to assure uninterrupted content flow; 800-998-3588; 800-547-8949; fax: 503-627-7275; www.grassvalleygroup.com

Circle (310) on Free Info Card

Wideband digital video routing switcher

Grass Valley Group 7500WB: new input/output card enables any frame to support SD-only signals without any changes, allowing migration from SD to HD signal processing; provides auto reclocking of digital signals from 40Mb/s to 1.5Gb/s, including SD/HD switching of digital signals without any change in its underlying hardware; available in 25 rack units 256x256 frame or new 128x128 frame; 800-998-3588; 800-547-8949; fax: 503-627-7275; www.grassvalleygroup.com

Circle (311) on Free Info Card



Video/audio signal analyzer

Hamlet Hamlet Digi Scope 601U: is a multiformat-capable video and audio signal analyzer, measuring and monitoring unit; it offers full 10-bit patent applied high definition digital processing throughout; +44 0500 625 525; +44 1494 793 763; fax: +44 1494 791 283; www.hamlet.co.uk

Circle (312) on Free Info Card

MPEG 4:2:2 decoder

Harris NETplus: this ASTC professional profile (MPEG 4:2:2) decoder receives HD signals distributed over fiber or satellite networks; supports a wide variety of inputs and formats, including 8PSK and QPSK; 800-622-0022; 513-459-3400; fax: 513-459-3890; www.harris.com

Circle (313) on Free Info Card

Decoder/synchronizer

Fortel DTV DEC-312S: decodes and synchronizes composite analog video (NTSC or PAL selectable) and generates 4 SDI outputs; its 12-bit A/D conversion and processing result in exceptional transparency and improved signal-to-noise; the DEC-312S features an adaptive frame, field and three-line comb filtering, producing accurate YC separation without undesirable artifacts; used in conjunction with an INTEGRITY serial digital router, the DEC-312S provides a composite analog input channel; 800-530-5542; 404-885-9555; fax: 404-885-1501; www.fortelDTV.com

Circle (307) on Free Info Card

HD portable lens

Fujinon DigiPower 20: features Inner Focus mechanism, low-dispersion glass and high-refraction, low weight glass; also features 20x magnification and a 7.8mm focal length; can cover applications from wide angle to telephoto; zoom, focus and iris servo control are digitized to provide new functions and a high degree of accuracy; 10-speed mode select function provides 10 position for zoom speed settings; 800-553-6611; 973-633-5600; fax: 973-633-5216; www.fujinon.co.jp

Circle (308) on Free Info Card

Hybrid fiber optic camera cable



Gepco International HDC920: flexible 9.2mm hybrid cable that uses both optical fibers and copper conductors for digital video and control signals; optical fibers allow video signals to be transmitted over 5000 feet accurately and reliably; includes four 20-gauge and two 24-gauge tinned-copper conductors; 800-966-0069; 847-795-9555; fax: 847-795-8770; www.gepco.com

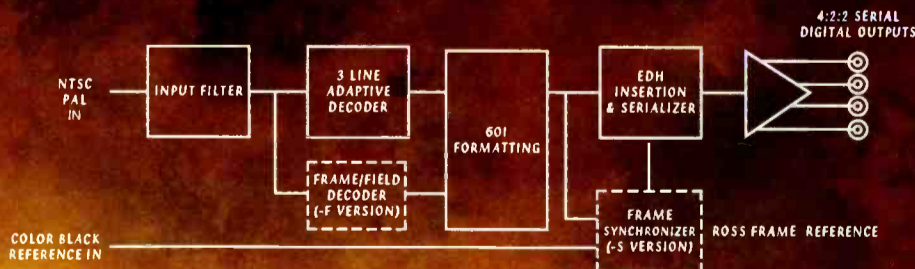
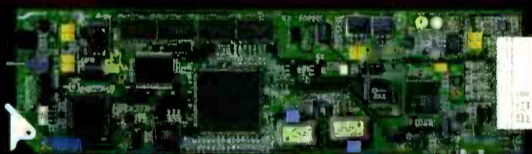
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Harris PSIPplus/PSIP.com: gathers, manages and disseminates PSIP data, including local system time, program guide and rating information, extended program descriptions and virtual channel information; offers easy-to-use local program editing capabilities; PSIP.com is a server that automatically downloads program guide information into the PSIPplus server daily; 800-622-0022; 513-459-3400; fax: 513-459-3890; www.harris.com

Circle (315) on Free Info Card

Monitoring and control system

Harris Broadcast Manager: system allows for central monitoring and control of equipment and associated networks within a station, group or network; offers a scalable PC-based architecture and graphical interfaces; provides users the option of a receiving a top-level status overview of all equipment or lower levels with information on individual systems; 800-622-0022; 513-459-3400; fax: 513-459-3890; www.harris.com

Circle (316) on Free Info Card

Portable multi-standard digital camera



Hitachi SK-3000P: includes newly developed 2.2 million pixel CCDs that provide 1080i output for HD; modular design allows for 720p and 480p formats; NTSC (480i) outputs are provided in digital and analog; 516-921-7200; fax: 516-496-3718; www.hdal.com

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Studio/field and portable cameras



Ikegami HDK-790D/ HDK-79D: delivers leading HD formats without external converters; offers 2.2 million pixel 2/3-inch CCDs that provide selectable native interlace and native progressive read-out modes; can be switched to provide 1080i, 720p and 480; outputs are provided for HD and SD in both digital and analog, NTSC signals can be independently switched to 16:9, 4:3 side-cut or 4:3 letterbox aspect ratios; 201-368-9171; fax: 201-569-1626; www.ikegami.com

Circle (318) on Free Info Card

8VSB translator

Ktech Telecom VSB-REM0D-200: receives an 8VSB signal on-air or via cable, demodulates to baseband data, and corrects multipath errors by Forward error correction and equalization techniques; the translator then remodulates the baseband data into a new 8VSB signal; 818-361-2248; fax: 818-270-2010; www.ktechtelecom.com

Circle (327) on Free Info Card

UHF solid-state transmitters

LARCAN Digital Transmitters: these transmitters are UHF solid-state and IOT, containing up to 75kW avg. power and VHF solid-state up to 6kW avg. power; they transmit digital radio for DAB, and Eureka 147 radio for L-BAND and BAND III; 905-564-9222; fax: 905-564-9244; larcan.com

Circle (328) on Free Info Card



Pro graphics plug-in for Win95/NT NLEs

Inscriber TitleMotion: this graphics plug-in for creating video titles and motion effects for nonlinear editors running on Windows 9x/NT; features extensive attribute controls for design and output aspects; include full key-channel support; operates as a standalone titling package; 800-363-3400; 519-570-9111; fax: 519-570-9140; www.inscriber.com

Circle (319) on Free Info Card

NT-based character generator

Inscriber Live!Studio: features modular artistic and media management tools; network compatible for seamless file sharing; uses productivity tools including CG creation capabilities; real-time motion effects editor, a video paint system and an integrated digital store, which catalogs and accesses still images and video clips across the network; 800-363-3400; 519-570-9111; fax: 519-570-9140; www.inscriber.com

Circle (320) on Free Info Card

IOT-equipped DTV transmitter

Itelco KV series: features an exclusive 8VSB exciter/modulator and lightweight electronic beam power supply integrated into the transmitter cabinet; compact design of power supply makes transmitter an ideal choice for applications where space and weight are primary considerations; 303-464-8000; fax: 303-464-8770; www.itelco-usa.com

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Solid-state DTV transmitter

Itelco WV Series: a liquid-cooled solid state transmitter; features an exclusive Itelco developed 8VSB exciter/modulator and patented liquid cold solid-state amplifier modules; available for power levels between 800W rms and 40kW rms; 303-464-8000; fax: 303-464-8770; www.itelco-usa.com

Circle (322) on Free Info Card

Audio encoders/decoders



Leitch Diamond audio compression system: allows existing dual/single stereo AES infrastructures to increase channel capacity to between five and eight stereo signals without adding routing levels, DAs or other equipment; the ACE-1600/ACD-1600 system lets one VTR record video with enough audio channels for surround sound or other applications; 800-231-9673; 757-548-2300; fax: 757-548-4088; www.leitch.com

Circle (330) on Free Info Card

Television antenna

Jampro Stacked Aperture Antenna: antennas can be stacked to minimize tower loading; designed for broadcasters who need to broadcast digital and analog signals simultaneously; many combination of stacking TV antennas to meet broadcasters needs including top mounting both antennas or top mounting one antenna and sidemounting another; 916-383-1177; fax: 916-383-1182; www.jampro.com

Circle (323) on Free Info Card

Switchable aspect ratio camcorder

JVC DY-90W: uses 4:2:2 sampling and 50Mb/s; switches from 16:9 aspect ratio to 4:3; uses three 2/3-inch CCDs, LoLux low-light capability, four channels of audio, 124-minute recording time and other professional features; 800-JVC-5825; 973-315-5000; fax: 973-315-5030; www.jvc.com/pro

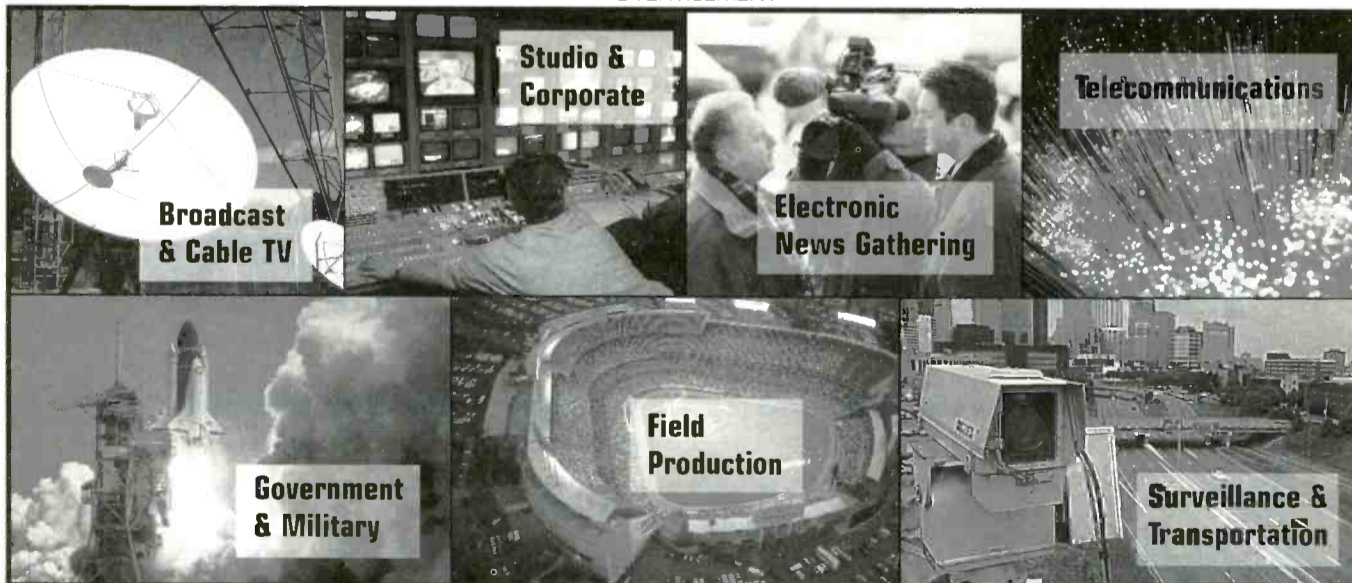
Circle (325) on Free Info Card

64-channel studio mixer

Klotz Digital DBM 6412: a 64-channel digital broadcast mixing system; contains a built-in fiber optic interface, Vadis Core 6400 digital processing unit and a fully equipped broadcast mixer; external IO 6405 break-out box include I/O and additional modules to further expand the system; network application are included, system can be implemented directly into a Vadis digital network; 678-966-9900; fax: 678-966-9903; www.klotzdigital.com

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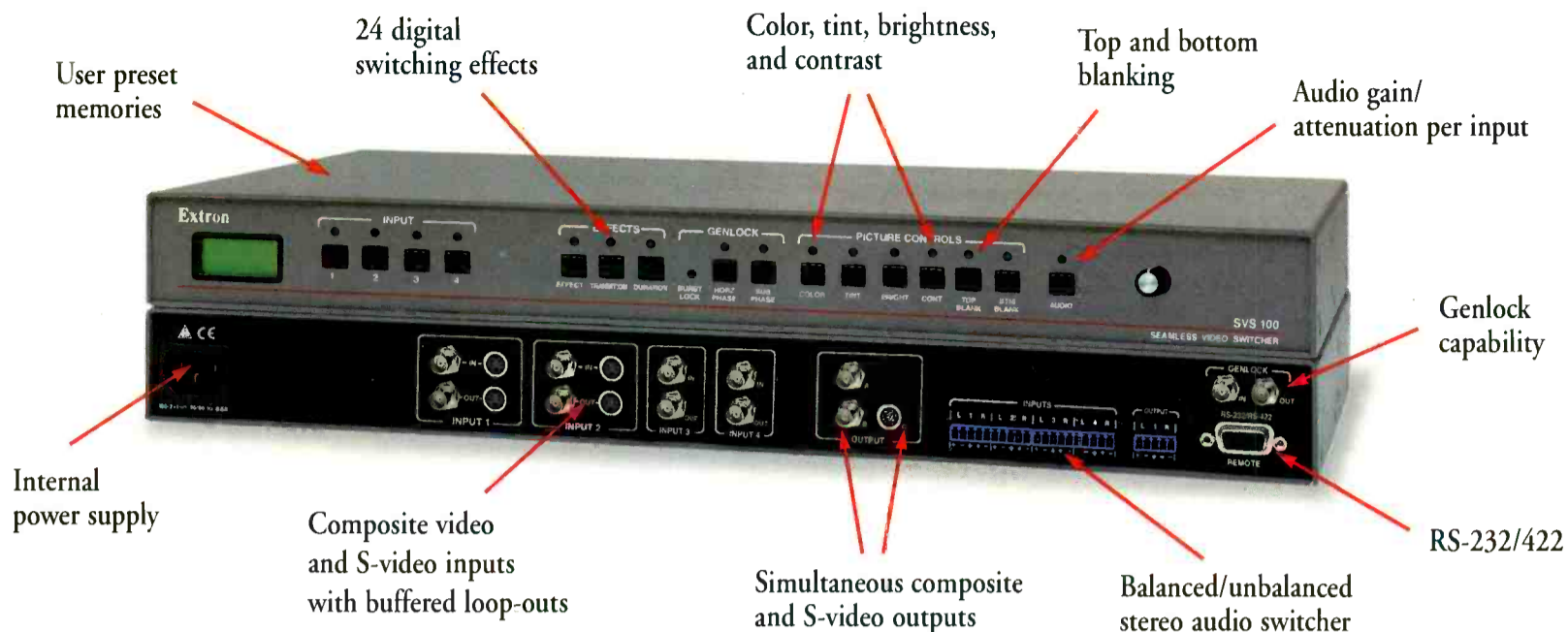
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EXTRON SVS 100

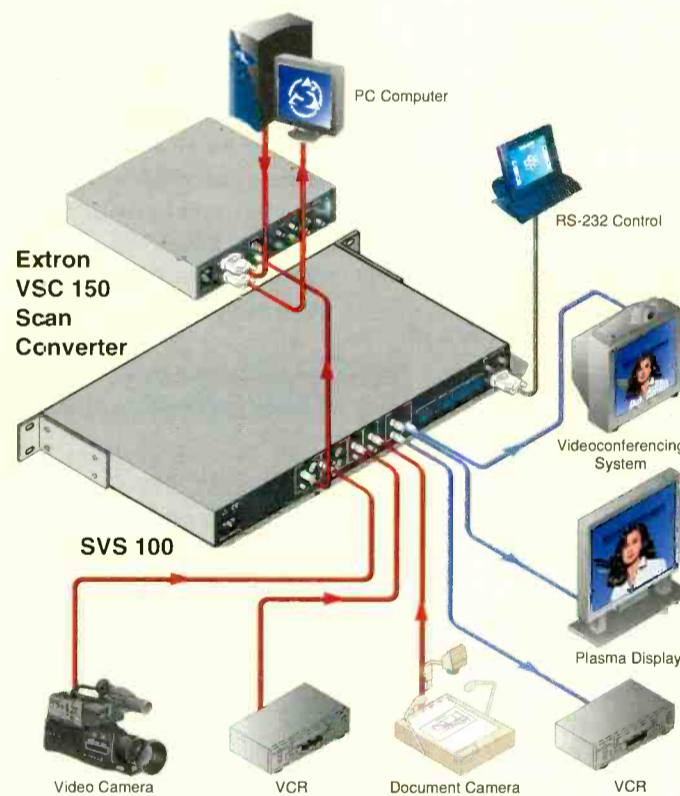
Seamless Video Switching for Enhanced Presentation Quality

NEW

Extron's SVS 100 is a four input, one output, video switcher that improves presentation quality by providing seamless vertical interval switching without the need to genlock the sources. Applications such as videoconferencing, distance learning, video editing, and staging benefit from the cost-effective SVS 100, making glitch-free switches without using expensive genlocking equipment. By eliminating loss of sync during switching and by color matching inputs, the SVS 100 enhances the professional look of your presentations. Individual settings required by each input source are also saved for consistent color, tint, brightness, and contrast levels ensuring that colors match between multiple sources.

Extron's new SVS 100 seamless video switcher provides the following advantages:

- Accepts up to four NTSC or PAL video inputs as composite video or S-video
- Three outputs provided simultaneously: two composite video and one S-video
- Internal, 4x1, balanced/unbalanced stereo audio switcher for routing audio associated with any video input
- 24 digital switching effects for a variety of "wipe," "dissolve," and "fade" transitions
- Extron's exclusive variable top and bottom vertical blanking eliminates edge noise
- 128 user preset memories (color, tint, brightness, contrast) for saving color adjustments for each video input
- Genlock capability for use in broadcast or live environments



The SVS 100 part number is 60-322-01.

For complete details, visit Extron's website at <http://www.extron.com/h/svs100>

Extron Electronics

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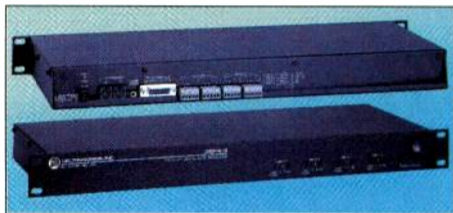
Digital camcorder



JVC DY-70: offers 14-bit digital signal processing, 4:2:2 sampling and 50Mb/s data rate and uses the latest 1/2-inch CCD technology with CCD micro lens technology; features four-channel audio sampled at 16-bit, 48kHz; 800-JVC-5825; 973-315-5000; fax: 973-315-5030; www.jvc.com/pro

Circle (324) on Free Info Card

Multifunction audio processor



Lectrosonics DSP4/4: A four-input, four-output processor with 12 filters per channel for EQ, notch filtering, high and low pass filters, feedback extermination, compressor/limiter and 182ms of delay per channel; there are eight memory presets and the unit can be controlled via RS232; 800-821-1121; 505-892-4501; fax: 505-892-6243; www.lectrosonics.com

Circle (329) on Free Info Card

Newsroom editing system



Leitch NewsFlash: allows each editor simultaneous access to media on a video SAN; when combined with acquisition and playback channels creates a streamlines newsroom workflow; interfaces with most electronic news; 800-231-9673; 757-548-2300; fax: 757-548-4088; www.leitch.com

Circle (331) on Free Info Card

MPEG video server



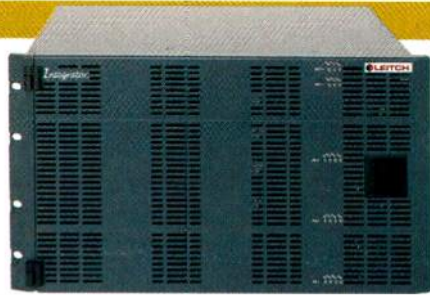
Leitch VR440: features four bidirectional I/O channels in a 4RU frame; can be configured to more than 40 channels with simultaneous access to the video storage area network with capacity from 250GB to more than 3TB; offers redundant power supplies, main feeds and hot-swappable drives with RAIDSoft switchover; 800-231-9673; 757-548-2300; fax: 757-548-4088; www.leitch.com

Circle (334) on Free Info Card

512x512 HD routers

Leitch Integrator: offers field-accurate switching in 4-, 6- or 8RU frames and is available in HD, coaxial or fiber SDI analog video, AES audio, mono or stereo analog; features dual outputs, references and individually configurable serial ports, hot-swappable power supplies and control logic; 800-231-9673; 757-548-2300; fax: 757-548-4088; www.leitch.com

Circle (332) on Free Info Card



1RU aspect ratio converter

Leitch Monarch: architecture allows I/O processing to be configured to match the demands of the application; offers 10-bit digital decoding and encoding for processing composite video signals; features 10-bit resolution, preset and variable ratios, selectable transition types and serial I/O; offered in 1RU frame; 800-231-9673; 757-548-2300; fax: 757-548-4088; www.leitch.com

Circle (333) on Free Info Card



Modular frame systems



Lighthouse Digital Systems Modular II: available modules include SDV to Fiber, Fiber to SDV, AES to Fiber, Fiber to AES, AJA 10 bit NTSC to Fiber, Fiber to AJA 10 bit NTSC, Analog Audio to AES Fiber and AES Fiber to Analog Audio; one RU frame holds four modules, two RU frames hold 16 modules — 14 modules with redundant P/S; 800-323-8287; ; fax: 530-272-8289; www.lighthousedigital.com

Circle (335) on Free Info Card

Programmable control panel

Lighthouse Digital Systems RCP-14: offers 14 multicolor programmable hot buttons and alphanumeric displays; allows easy programming by Navigator for preferences of different operators; RCP-VF has large easy-to-read vacuum fluorescent display for showing multiple router configurations for up to eight different levels; 800-323-8287; fax: 530-272-8289; www.lighthousedigital.com

Circle (336) on Free Info Card

60kW IOT

Litton Electron Devices L4482: features peak sync output (vision only) 64kW; common mode peak sync output power of 44kW visual/4.4 kW; and peak output power digital operation of 85kW; 800-861-1UHF; 570-326-3561; fax: 570-326-2903; www.littonedd.com

Circle (337) on Free Info Card

Satcom amplifier

Marconi Applied Technologies N63123/5/8 DUA Stellar: range of Ku-band antenna mounted satcom amplifiers offering digital attenuators and L-band upconvertors in a very compact package; 800-342-5338; 914-592-6050; fax: 914-592-5148; www.marconitech.com

Circle (340) on Free Info Card

Automation software

Louth Media Client Version 2.1: includes Multi-Spot and Traffic Purge List support, Multi-Spot allows simultaneous or serial recoding of primary and backup spots; features include database files, spot record insertion options, Spot list and drag-and-drop feature facilitate intelligent allocation of tape resources; 650-843-3665; fax: 650-843-3666; www.louth.com

Circle (338) on Free Info Card

Two-stage tripod

Miller Fluid Heads HD 100 tripod: a lightweight, two stage carbon fiber system; offers superior strength, height, weight and compactness; 973-857-8300; fax: 973-857-8188; www.miller.tripods.com

Circle (342) on Free Info Card

System for interactive TV

Mixed Signals Technologies ITV DataFlo: integrated production suite for encoding interactive TV content into live or recorded video programs; consists of creation and scheduling software, scheduling software and a VBI data encoder; ATVEF compliant; 310-838-4353; fax: 310-838-4354; www.mixedsignals.com

Circle (345) on Free Info Card

Fiber-copper composite cable

Mohawk/CDT M 96040: a fiber-copper composite cable; consists of two tight buffered single-mode optical fibers and four 20 AWG an two 24 AWG tinned copper conductors; insulated with PVC; 800-422-9961; 978-537-9961; fax: 978-537-4358; www.mohawk-cdt.com

Circle (346) on Free Info Card

Video distribution amps

Netcom PatchAmp: a combination of five 24-position patchpanels and 24 1x5 distribution amplifiers internally with in a 14RU frame for digital video and AES applications; features 75-ohm impedance HD frame, low power consumption and hot-swappable, redundant power supply; 201-837-8424; fax: 201-837-8384;

Circle (349) on Free Info Card

PC graphics-to-video scan converter

Magni Systems MagniCoder Pro MCP-2450 Series: a VGA-to-video scan converter; front panel controls provide quick memory set up and ease of use; capabilities include key, cut, fade, freeze, pan and zoom and scaling of video window; supports NTSC or PAL and VGA/XGA-to-video at resolutions up to 1024x768; 800-237-5964; 503-615-1900; fax: 503-615-1999; www.magnisystems.com

Circle (339) on Free Info Card

Expanded beam fiber optic connectors



Method Electronics Stratos: a line of harsh environment fiber optic connectors; features optical performance comparable to standard connectors with superior harsh environment reliability; ideal for tactical or field-deployable situations; connectors feature alloy shells, scoop-proof design and hermaphroditic, blind-mating capability; 800-323-6858; 708-867-9600; fax: 708-867-9261; www.methode.com

Circle (341) on Free Info Card

Visual monitoring/quality control solution

Miranda Kaleido-QC: combines same great features as original Kaleido display system with new web-based device management and control software; used to replace suites of dedicated control panels and monitoring equipment with single computer workstations, or a rack-mounted, touch-screen display; 514-333-1772; fax: 514-333-9828; www.miranda.com

Circle (343) on Free Info Card

HD D/A converter

Miranda SDM0871p: the miniature high-quality HD digital to analog convertor facilitates the monitoring of HD serial digital (HD SDI SMPTE 292M) video signals; provides flexible RGBHV/YUV output with user-selectable sync type to enable use in a wide variety of HD component analog and multisync computer display monitors; 514-333-1772; fax: 514-333-9828; www.miranda.com

Circle (344) on Free Info Card

Stat Mux

Motorola Broadband (formerly Gi) Multichannel HD Statistical Multiplexer: applies Motorola statistical multiplexing technology to four HD channels that will occupy 38.8Mb/s bandwidth pipe; 888-800-8346; 858-455-1500; fax: 858-404-2443; www.gi.com

Circle (347) on Free Info Card

Axon Digital Design designs and manufactures broadcast equipment for processing and converting audio and video signals and serves many high-profile international broadcasters and facilities. Axon offers an

extensive range of broadcast signal processors, including PAL/NTSC Encoders and Decoders, 24 bit audio A/D and D/A converters, Embedders and De-embedders, Serial Digital Processors and Aspect Ratio Converters.



ARC-3000

The ARC-3000 is a totally integrated 19", 1RU unit, offering high quality, optimized conversion for Post-Production and Broadcast applications. Input and output are serial digital video, 601 270Mbit. All major controls and presets can be accessed via the units control panel which includes a comprehensive "jog dial" rotary encoder. Up to sixteen pre-sets including; Horizontal scale, Horizontal pan, Vertical scale, Vertical tilt, GPI output selection, Output timing etc. can be stored in the non-volatile memory. Once stored, different configurations can be initiated via GPI contacts, local front panel

controls or automatically using Video Line Index information or Wide Screen Signaling information. Any data, such as embedded audio appearing in the horizontal and vertical blanking periods is reinserted on the output with the correct delay, an integrated AES/EBU digital audio delay is also provided. An analog composite, component or RGB monitor output can be used to pre-view the source material with an inserted cage. This moving white/black dashed cage is a comprehensive tool to pre-view what might fall outside the converted window.

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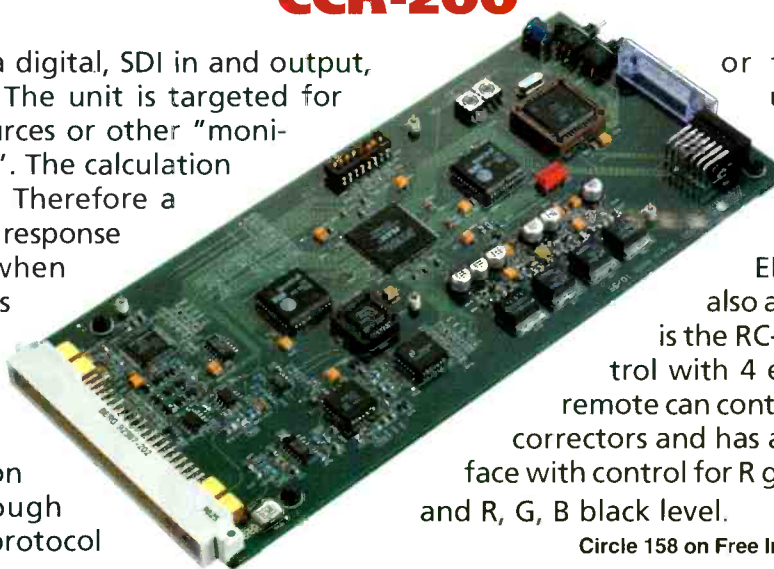
ARC-1000

The ARC-1000 is a straightforward High Quality stand-alone Aspect Ratio Converter with simple operation. Included are 6 basic conversions and a pass. The unit is bi-directional, capable of going from 16:9 to 4:3 and vice versa. An easy user interface let you choose the different presets and Filter modes (Video/Film/Mix). This high quality 10 bit Broadcast unit is added to the family of Axon Aspect Ratio Converters for straightforward operation like tape transfers, and fixed program transfers.

Circle 157 on Free Info Card

CCR-200

The CCR-200 is a digital, SDI in and output, color corrector. The unit is targeted for CCD camera sources or other "monitor applications". The calculation domain is 4:4:4. Therefore a linear frequency response is maintained when a color gain is corrected. The CCR-200 has 4 presets available on the board. Operation is possible through RS485 remote protocol



or front-panel full user interface. (like the FLS-200 user interface). A reset switch and full EDH processing are also available. Optional is the RC-2000 remote control with 4 extra presets. This remote can control up to 100 color correctors and has an easy user interface with control for R gain, G gain, B gain and R, G, B black level.

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Contact information

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Fax: +31 (0)13 511 4151
E-mail: axon@axon.nl

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Fax: (212) 265 6402
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Extended range test meter

Ward-Beck XTM4: for the measurement of analog, AES-3 and SDI embedded audio signals over a wide range; the 2RU unit is equipped with a high-quality stereo VU and PPM moving needle meter pair; front panel controls and a bright dot matrix allow the user to select between the various signal sources, select the mode of operation and set the sensitivity of the meter; connection is via a rear panel XLR-(F)s for the analog and 110Ω AES-3 signals and via BNCs for the AES-3ID and SDI signals; 800-771-2556; 416-335-5999; fax 416-335-5202; www.wbsltd.com

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Video server

Pluto Technologies AirSPACE CartPLAYER: designed for commercial spot, newsreel or other program play-to-air applications; will replace or significantly reduce cycle time on BetaCart, LMS or Mark tape robotic systems; in its standard configuration yields approximately five hours of expandable storage capacity; may be configured for up to four serial digital video channels along with four discrete audio channels (two AES pairs) for each video channel; can grow with the customer, offering a range of upgrades to 12-, 24- or 48-hour storage capacities; 303-402-9000; fax: 303-541-9043; www.plutotech.com

Circle (376) on Free Info Card

Modular serial digital video DA & fiber optics

Multidyne DTV-200: intended to ease the engineering and financial difficulties associated with migration to DTV; line includes DTV-220-FTX serial digital video fiber optic transmitter and DA; DTV-220-FRX serial digital video fiber optic receiver and DA; DTV-201 serial digital video fanout DA; DTV-202 serial digital video fanout DA; DTV-210 automatic standard reclocking DA; 800-4TV-TEST; 516-671-7278; fax: 516-671-3362; www.multidyne.com



Circle (348) on Free Info Card

Time base corrector and frame sync

Nova Systems SM2000: features full bandwidth processing with adaptive digital comb filtering; satisfies a wide range of VCR signal correction and video interface requirements from desktop video to satellite systems; plugs directly into a computer or one of several chassis configurations; control is by local front panel in C-1A chassis and serial data with a choice of either computer software or Trol control unit; 800-358 NTSC; (860) 242-3300; fax: (860) 242-8680; www.nova-sys.com

Circle (351) on Free Info Card

Router control system

NVISION Envoy: provides a quick and efficient method to control multiple NVision routers; unit also interfaces with routing equipment of other manufacturers; system features GUI for SQL database configuration and routing control; expandable system components, configurable control panels, error logging and diagnostics; 800-719-1900; 530-265-1000; fax: 530-265-1010; www.nvision1.com

Circle (354) on Free Info Card

Automation system



Odetics Micro Station: designed for smaller market stations, includes digital disk storage, machine control, and software for automating program playback for VTRs, network feeds, and interstitial material; plug-and-play device comes complete with software suite, including applications for media preparation, database management and on-air playlist management; 714-774-2200; fax: 714-780-7594; www.odetics.com/broadcast/

Circle (355) on Free Info Card

Line of patented ferro-resonant UPS

North Star Technical Services/Best FERRUPS: provide regulated output voltage without drawing power from the batteries for input voltages as low as 38 percent below nominal; has ability to work with all types of input sources and loads; Active Voltage Regulation converts power from almost any AC source into computer-grade power; from 500VA to 18kVA; 800-842-1671; 954-921-5868; fax: 954-927-0501; www.nstpower.com

Circle (350) on Free Info Card

Digital ENG truck transmitters



Nucomm Newscaster MMPT6 Series: able to deliver analog video and audio and digital video; a heterodyne transmitter that can accept any 70MHz digital modulator signal including COFDM, QPSK and 8PSK; offers increased control through coax/triax cable and four individual conductors, allows ENG truck operator to control and monitor the RF section of the ratio, control antenna polarity, pan and tilt and other mast-mounted equipment; 800-9-NUCOMM; 908-852-3700; fax: 908-813-0399; www.nucomm.com

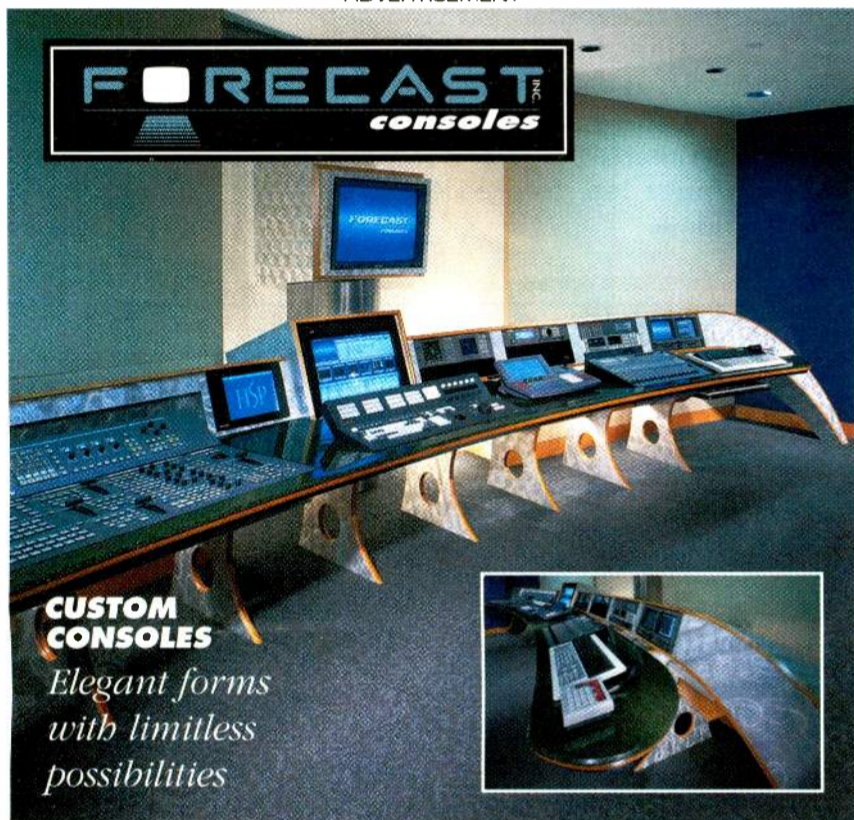
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Router module

NVISION ENVOY6904: allows expansion of SDI or Super Wideband routers to 1024x1024; Super wideband modules support from 15Mb/s to 1.5Gb/s; passes SDI and HD-SDI pathological signals; offers simultaneous routing of SDI and HD-SDI signals; modules load via the front of the frame and are hot swappable; 800-719-1900; 530-265-1000; fax: 530-265-1010; www.nvision1.com

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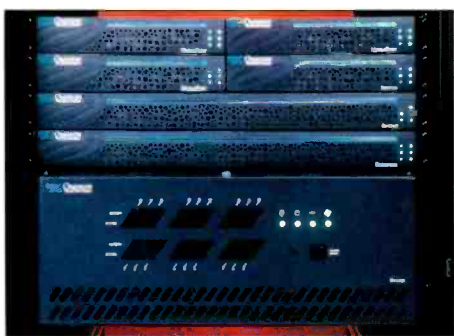
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www.DigitalMediaNet.com

Networking and storage infrastructure



Video Area Network: features data-type independence with the ability to store HD HDCAM, DV, DVCPRO 50, MPEG-2, uncompressed 60i and streaming files; also features connectivity with leading industry interfaces; 408-558-2101; fax: 408-558-2199; www.omneon.com

Circle (357) on Free Info Card

Newsroom nonlinear editing system



Panasonic NEWSbyte: new version adds 40 new functions including the ability to digitize and display 16:9 aspect ratio footage, sequential file import with Alpha channel, import and export of user settings, networkable bins, EDL import/export and redigitizing, audio EQ and reverb and savable customized video modifications; newsBYTE system features a built-in DVCPRO 4x recorder player with disk transfers at 4x faster than normal speed; 800-528-8601; 323-436-3500; fax: 323-436-3660; www.panasonic.com/broadcast

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DVCPRO camcorder



Panasonic AJ-D610WA: a 16:9/4:3 switchable, 2/3-inch IT three CCD camcorder; allows users to shoot in 4:3 or 16:9 widescreen; features 66 minutes of record time, 10-bit digital signal processing, a S/N of 55dB and a minimum illumination of 0.5 lux; offers optional Picture Link, which stores shot logging in camera memory and records it on tape during the eject cycle; Picture Link information can be read by newsBYTE editing systems; 800-528-8601; 323-436-3500; fax: 323-436-3660; www.panasonic.com/broadcast

Circle (363) on Free Info Card

Graphics routing switcher

PESA Tiger 250MHZ 144x144: designed to route high-resolution graphics in large monitoring systems; RGB or RGBHV are available to meet the mission-critical routing needs of network reliability centers; 800-328-1008; 516-845-5020; fax: 516-845-5023; www.pesa.com

Circle (366) on Free Info Card

HD production switcher

Philips Seraph: this multiformat-selectable, 1.5Gb/s production switcher is part of the DD35 range; it features 90 HD inputs, interlace and progressive formats and scalability up to four Mix Effects banks; also offers advanced HD machine control with clip selection and cue; 800-962-4287; 818-729-7700; fax: 818-729-7710; www.broadcast.philips.com

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Audio console



Otari ADVANTA Digital Console:

A state-of-the-art, large format digital mixing system that is offered in application-specific configurations for the music recording, on-air broadcast, film and post-production

industries; it accommodates up to 256 full function channel paths; three operator positions are available for film and video-post applications; users can select a combination of dedicated or mapped control elements for the assignable control surface; 800-877-0577; 818-598-1200; fax: 818-594-7208; www.otari.com

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DVCPRO server

Panasonic AJ-HDR150: offers multiresolution recording and playback in the DVCPRO format; supports up to 25Mb/s DVCPRO, 50Mb/s DVCPRO50 and DVCPRO Progressive, and 100Mb/s DVCPRO HD; stores up to 20 hours of footage (five hours at DVCPRO HD resolution) with full data protection provided by an internal RAID-3 video disk array; additional channels and storage can be added using a Fibre-Channel based SAN.; 800-528-8601; 323-436-3500; fax: 323-436-3660; www.panasonic.com/broadcast

Circle (362) on Free Info Card



Film and video restoration system



Snell & Wilcox Archangel: provides fast and effective detection of impairments and estimation of quality; provides one-pass automatic restoration and user intervention of critical material; +44 1730 821 188; fax: +44 1730 821 199; www.snellwilcox.com

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Digital production switcher

Ross Synergy 1: 16 input, single MLE version of Synergy Series switchers; features include Aspectizers for simultaneous 4:3 and 16:9 production, 2D DVE, preview overlay and Ultimatte Insider.; 613-652-4886; fax: 613-652-4425; www.rossvideo.com

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USB player

Sencore HDTV996: allows users to control picture quality for a true 1080i picture; features include DVB parallel input for LVDS/TTL input capability, upgrade by DVD ROM and a network input option for use in closed loops; 800-SENCORE; 605-339-0100; fax: 605-339-0317; www.sencore.com

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Character generator

Peak Broadcast Systems USA Pilot Ticker: this character generator is based on Everest real-time graphic software and is available for the SGI NT, O2 and Onyx platforms; it is used in combination with Pilot's database; the software reads electronically delivered financial data for instant display in formats including multiple crawls and non-moving graphic displays; 212-453-4893; fax: 212-453-4884; www.pilot.no

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Philips LDK6000: 2/3-inch CCD HDTV camera system; supports 1080i and 720p as native formats; CCD sensor enable production of native pictures in interlaced or progressive formats, unaffected by format conversion-related artifacts; Triax-HD transmission system transmits HD video across 3000 feet using SD triax cable; 800-962-4287; 818-729-7700; fax: 818-729-7710; www.broadcast.philips.com

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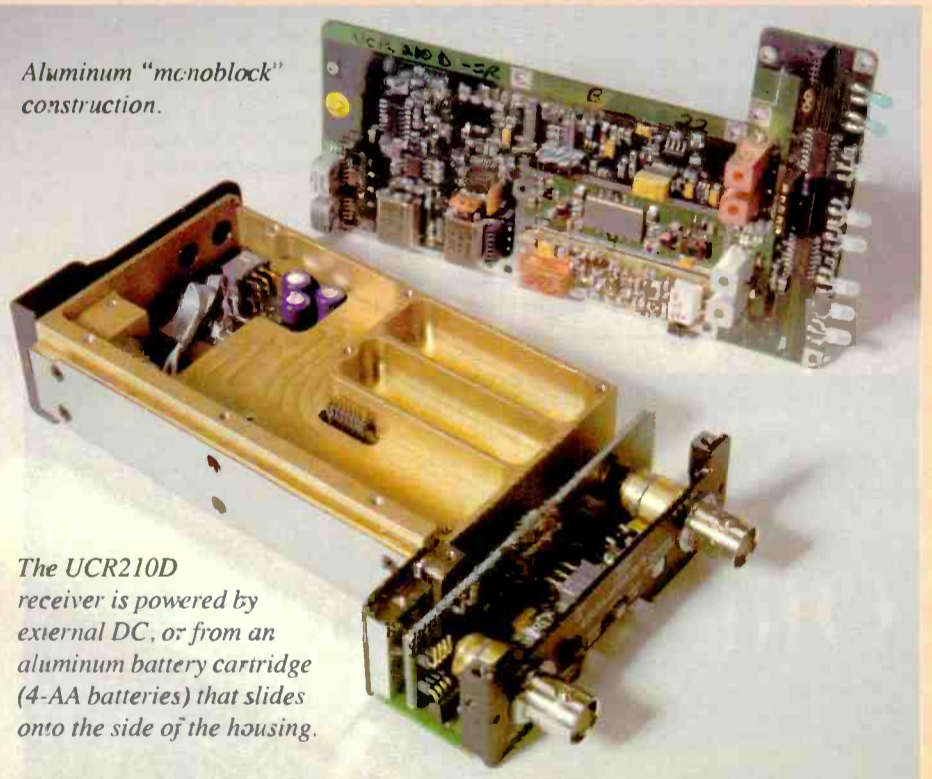
UCR210D receiver

The new UCR210D receiver offers a tracking front-end and 256 selectable UHF frequencies, a dual-band compandor, and microprocessor controlled SmartSquelch™ and SmartDiversity™ to optimize the signal to noise ratio under any conditions. The receiver adapts to changing signal conditions based upon an intelligent analysis of the incoming RF level and rate of change of RF level, plus audio level and audio content. Simply amazing. Simply LECTRO™.

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The new UCR210D receiver expands the 200 Series wireless system to a new level of performance and ruggedness. The receiver is a compact assembly built around a solid aluminum, monoblock chassis. The chassis provides exceptional RF isolation between critical sections of the circuitry and the ruggedness to deal with the real world, wherever you have to work. Despite its compact size, the UCR210D receiver is a world class, studio grade product equally at home in the studio or field.

Aluminum "monoblock" construction.



The UCR210D receiver is powered by external DC, or from an aluminum battery cartridge (4-AA batteries) that slides onto the side of the housing.

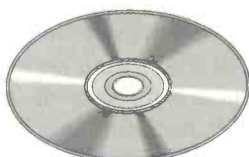
The 200 Series wireless microphone system was developed to meet the demands of professional use in broadcast, motion picture and live sound environments. The 200 Series consists of a rack mount studio receiver with computer interface, two compact receivers for field or studio use, two belt-pack transmitters, a hand-held transmitter, and a plug-on transmitter. This is flexibility and absolute quality to meet any microphone requirement.

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MPEG-2 video server

Pinnacle MEDIASTREAM 300: allows broadcasters to switch from tape-based analog systems to digital environments; can be configured from one to three channels and includes up to 25 hours of on-board storage in two rack units; designed for single-channel broadcast facilities; time-delay applications, network edge servers, and cache channel expansion; includes improvements such as Fibre Channel networks, Ethernet WAN connectivity; DVB and HD readiness and the ability to upgrade to more than 1000 hours of RAID-based external storage; 650-526-1600; fax: 650-526-1601; www.pinnaclesys.com

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High-end contribution market receiver

Tandberg Alteia Plus: targeted to high-end contribution market; provides transport rates up to 100Mb/s; embedded audio, frame synchronization and linear audio; 949-725-2500; fax: 949-725-2545; www.tandbergtv.com

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IRD management system

Wegener Compel: puts network receivers and uplinks at user control; 800-848-9467; 770-814-4000; fax: 770-623-0698; www.wegener.com

Circle (415) on Free Info Card

ATM switcher

Philips Virtual Cross Point: based on ATM open architecture; an audio routing switcher that accepts both analog and AES I/Os; distributed I/O architecture with fiber optics can extend up to 500 meters; also combines modularity with very large capacity (up to 2048x2048 and advanced audio manipulation digital signal processing); 800-962-4287; 818-729-7700; fax: 818-729-7710; www.broadcast.philips.com

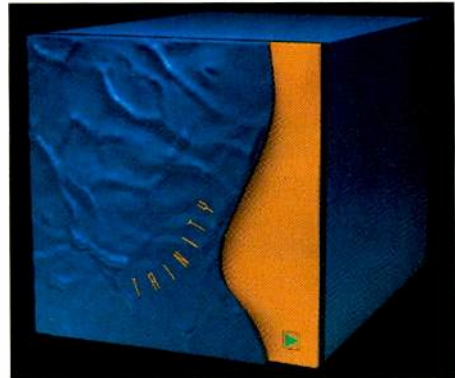
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OFDM monitor

ProTeleVision Technologies (PTV) PT 5765 OFDM: parameters monitors include RF level and bit error rates; built-in noise generator makes it possible to estimate the available carrier to noise margin; output signal is available in parallel SPI format and serial ASI format; 800-421-0888; 201-529-2188; fax: 201-529-2109; www.ptv.dk

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Broadcast TV studio-in-a-box



Play Trinity 2.1: includes an eight-input D1 production switcher, online character generator, chroma keyer, paint, animation and compositing system, DVE still store and online editor; with addition of Time machine Trinity integrates the dual-stream nonlinear editor to provide real-time functionality and advanced post-production tools; graphics capabilities are Panamation, Titlewave and Personal FX applications; 800-306-PLAY; 916-851-0800; fax: 916-851-0801; www.play.com

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Prime Image Time Machine: creates up to 30 seconds of extra commercial time in a 20-30 minute program; digital input and output are standard; offers four channels of analog or AES/EBU audio; optional features include analog component or composite video I/O; four additional analog or AES/EBU audio channels and multifunction HD I/O; 408-867-6519; fax: 408-926-7294; www.primeimageinc.com

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Transport stream test device

Sencore Electronics AD954 Stream Grabber: designed for engineers working on compression equipment installation and service; allows user to capture transport streams for in-field analysis or delivery to R&D engineers for further testing; functions at bit rates up to 90Mb/s at which it can record up to 30 seconds of transport stream; requires a power supply of less than one amp at 6V DC; 800-SENCORE; 605-339-0100; fax: 605-339-0317; www.sencore.com

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Web streaming solution

Pinnacle StreamGenie: a portable Webcasting solution for live and on-demand streaming over the Internet; supports multiple camera switching, simultaneous output for the Internet and video archiving, integrated professional titling, graphics, special effects, audio and built-in network I/O; suited for corporate events, business TV, distance learning, conferences and concerts; 650-526-1600; fax: 650-526-1601; www.pinnaclesys.com

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Picture quality analyzer

Pixelmetrix VP2000 Series Picture Quality Analyzer: provides real-time objective quality evaluation of picture quality, source independent; monitors all types of content; uses "Three Layer, Bottom-Up Noise Weighting Model, which provides a running visual indication of video picture quality; available in two versions the VP2000S for SD and the VP2000H for HD; the HD version is helpful for evaluating equipment before purchase; 1877-717-4935; +65-5474935; fax: +65-5474945; www.pixelmetrix.com

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Impairment and performance monitor

Pixelmetrix DV Station: modular multilayer system simultaneously monitors on up to 21 ports and multiple layers of the video transmission chain; allows tracing and pinpointing of RF, protocol, multiplexing and content errors propagating through the network; incorporates a Linux-based presentation engine and integrated LCD touch panel; 1877-717-4935; +65-5474935; fax: +65-5474945; www.pixelmetrix.com

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Animation system

Quantel Paintbox FX: designed for moving graphic production; in addition to traditional Paintbox features, it adds the ability to manipulate multiple clips for layered design; it also offers storage of seven minutes with the option to increase that to 14 minutes; other features include comprehensive live-over-live design, distortion tools and a Studio Option for enhanced color control and dynamic auto-keys; 800-218-0051; 203-656-3100; fax: 203-656-3459; www.quantel.com

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SDTV MPEG-2 DVB IRD

Tiernan Communications TDR6000: an MPEG-2 DVB compliant receiver/decoder for television network applications, receives and decodes video at programmable transport rates from 2Mb/s to 70Mb/s depending on selected FEC rate; output include one NTSC or PAL composite analog video, one stereo analog audio and an asynchronous data channel; 800-323-0252; 858-587-0252; fax: 858-587-0257; www.tiernan.com

Circle (405) on Free Info Card

Internet video platform

Virage Video Search Server 2.0: a complete Internet video publishing and management platform; accessible via standard web browsers, this server-based application provides a powerful search engine, template-based web page customization and sophisticated annotation and administration capabilities; 650-573-3210; fax: 650-573-3211; www.virage.com

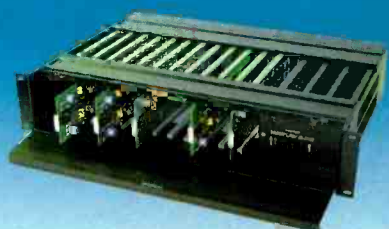
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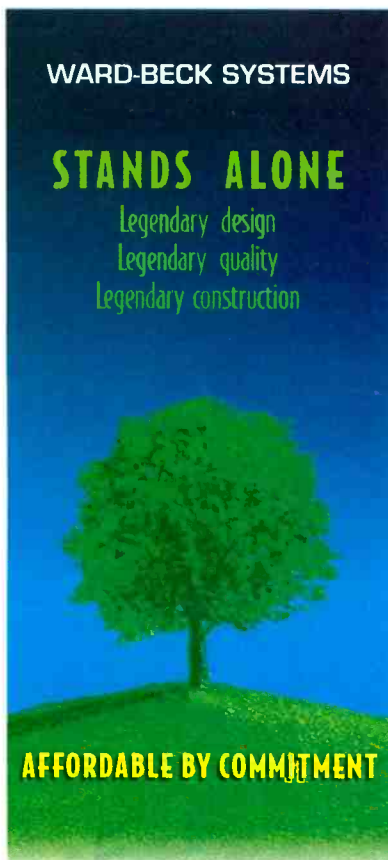
Portable, battery powered system for monitoring both digital (AES/EBU, S/PDIF) and analog signals. Digital input monitors sampling frequencies from 30kHz to 50kHz automatically.

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SGI Media Server: two new versions of SGI Media Server, one designed for broadband and the other for production and broadcast; both feature the Origin server in an integrated solution; the broadband version utilizes Kasenna MediaBase media streaming software to deliver content over the Internet, enterprise and virtual private networks to multiple client platforms; this version can deliver 100,000 high-quality MPEG streams daily; the production and broadcast version supports DVCPRO news format and is available in four-channel and eight-channel configurations; it manages video as data, distributing it over the existing LAN/WAN infrastructure in a facility; 650-960-1980; fax: 650-933-0819; www.sgi.com/go/broadband

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Digital film restoration system

Sierra Design Labs Revival: resolution-independent Unix-based system; features standard HD and up to 2K resolutions with film and video-based materials, offers automatic clean and restore functions for film and video post production processes; 800-400-8002; 775-886-5050; fax: 775-886-5060; www.sdlabs.com

Circle (387) on Free Info Card

Multi-access video servers

Sony MAV-2000/S2000: offers MPEG-2 4:2:2@ML compression at 30-50Mb/s; able to configure various I/O by using a combination of optional I/O boards; supports both synchronous or asynchronous I/O providing real-time record and playback using SDI/SDTI-CP interface and FTP on the network by using Gigabit Ethernet; chassis provides up to 12 SDI I/O channels or eight HD SDI I/O channels; 800-686-SONY; fax: 201-930-4752; www.sony.com/professional

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Fiber optic transmission system

Communications Specialties Pure Digital, One Fiber: line uses digital processing and transmission to send any combination of analog video, audio and data signals including "up the coax" over one fiber optic cable; system converts incoming analog signals to a digital bitstream, optically transmits the stream over a single fiber, then converts signals back to their original analog form at the receiving end.;888-4 FAX NOW; 631-273-0404; fax: 631-273-1638; www.commspecial.com

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Digital broadcast test platform

Wavetek Wandel Goltermann WWG DTS-300: portable instrument for MPEG-2/DVB and ATSC transport stream testing; helps to quickly isolate and diagnose problems in the digital broadcast multiplex; can include analysis, multiplex-simulation capture and generation capabilities in a single instrument; features simultaneous simulation and analysis in real-time, 18GB disk drive and powerful input and output transport stream interfaces (DVB-ASI, DVB-SPI, SMPTE-310M; RF interface available as an option.;800-854-2708; 858-279-2200; fax: 858-627-0146; mpeg.wwg-solutions.com

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Fibre Channel disk array

Ciprico NETArray-1000: a high-performance hardware RAID; supports up to 10 drives and two RAID controllers in 3RU; has integrated 10/100BT Ethernet port for management with support for SNMP, SMPT and HTTP; active components are redundant and hot swappable, including drives, fans, power supplies, RAID controllers and loop bypass circuitry.;800-727-4669; 612-551-4000; fax: 612-551-4002; www.ciprico.com

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Closed captioning decoder

Broadcast Video Systems CC-100: decodes line 21 data and inserts closed captioning text into baseband video; 30 second installation, switchable between language 1 and language 2, switchable between closed captioning and text: 905-764-1584; fax 905-764-7438; www.bvs.on.ca

Circle (468) on Free Info Card

Master control equipment

AgileVision AVG-1000: allows broadcasters to achieve master control multifunctionality without decompressing or recompressing the DTV signal; functions include processing and pass-through of compressed SDTV/HDTV programming with insertion of local station logo, PSIP, datacast, commercial and program content and emergency alert system announcements: 609-514-4030; fax 609-514-4029; www.agilevision.com

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Streaming media encoder

Chyron Clarinet: a broadcast-compliant streaming media encoder used to encode video and audio on the Internet; offers dual power supplies with internal cooling and an integral LCD screen for set-up and monitoring and status information; includes broadcast-compliant inputs and a simple HTML set-up wizard: 516-845-2000; fax 516-845-3867; www.chyron.com

Circle (470) on Free Info Card

Master-control mixer



Oxtel Presmaster 100: designed for multistream SDI and HD applications; up to 200 channels can be controlled by one or more PresMaster panels; features a color touch-screen display that provides rapid monitoring and adjustment of the core switcher functions; Squeexy DVE option provides picture-in-picture, squeeze and reveal effects and over-the-shoulder news transitions; also features full-group audio metering, station clock and timer and local VTR machine control: +44 1491 820 000; fax +44 1491 820 001; www.oxtel.com

Circle (471) on Free Info Card

ATSC/NTSC microwave link

RF Technology UNI-plex: for combined ATSC/NTSC studio-transmitter links and other microwave applications; supports transmission of 19.39Mb/s ATSC digital signal and NTSC analog video and multiple channels of audio within a single microwave channel, can be reconfigured as two separate links for ATSC, digital traffic up to 45Mb/s or analog video: 800-762-4369; 203-866-4283; fax 203-853-3513; www.rftechnology.com

Circle (472) on Free Info Card

Video production center

Grass Valley Group Kalypso: offers powerful M/E architecture with four keyers per M/E for more flexible layering and two utility buses per M/E allows separate program mix, video in borders or masking; includes built-in device control for Profile XP Media Platforms and video servers, GVG routers, DVEs and VTRS; features built-in DVE with six channels of effects plus external DVE support; up to 80 inputs and 40 outputs: 800-998-3588; 800-547-8949; fax 503-627-7275; www.grassvalleygroup.com

Circle (473) on Free Info Card

Computer-to-video scan converter

Communications Specialties Scan Do Pro II: features studio timeable genlock, component output (YUV or RGB format), switchable vertical filter and optional SMPTE 259M serial digital output; true multiscanning with support for resolution up to 1280x1024 (at 60Hz) ensures it will work with almost any computer; also includes three-line flicker reduction filter and multilevel input zoom processing: 888-4 FAX NOW; 631-273-0404; fax 631-273-1638; www.commspecial.com

Circle (474) on Free Info Card

HD D/A converter

AJA Video HD-10C: supports seven 1.5Gb/s HDSMI SMPTE-292/296 formats, including 1080i at 50/59.94/60Hz, 720p at 59.94/60Hz and 1080p SF at 29.93/24Hz; 1080p SF displayed as a 48Hz interlaced signal; unit automatically switches between input formats and provides two equalized SDI looping inputs; analog output formats are user selectable with choices of YPrPb, RGB, and computer multisync SVGA: 800-251-4224; 530-274-2048; fax 530-274-9442; www.aja.com

Circle (475) on Free Info Card

Fibre Channel disk array

Ciprico NETArray-1000: a high-performance hardware RAID; supports up to 10 drives and two RAID controllers in 3RU; has integrated 10/100BT Ethernet port for management with support for SNMP, SMPT and HTTP; active components are redundant and hot swappable, including drives, fans, power supplies, RAID controllers and loop bypass circuitry: 800-727-4669; 612-551-4000; fax 612-551-4002; www.ciprico.com

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Widescreen LCD monitor

SGI 1600SW: this LCD monitor features a SuperWide screen capable of displaying two pages side by side and has three times the brightness and five times the contrast of CRTs; it is the first photo-realistic monitor, with 110 dpi and 1600x1024 resolution; the interface is all-digital; 650-960-1980; fax: 650-933-0819; www.sgi.com/go/broadband
Circle (385) on Free Info Card

Mobile intercom system

Telex Communications RTS Model KP-32 Keypanel: a 2RU unit with 32 lever keys (30 intercom talk/ listen assignment; one call waiting respond/ clear; one headset/microphone switching); features DSP and binaural headset operation with left/right signal assignment; 90mm depth idea for mobile uses; fluorescent display increases visibility in all lighting.;800-392-3497; 612-884-4051; fax: 612-884-0043; www.telex.com
Circle (399) on Free Info Card

Upconverter

TeraNex XA4110PXC-1x3x1: converts from 480i60 to 1080i60, 720p60 and 480p60 or vice versa; features gamma correct colorspace conversion; 32-point optimal interpolation, 3:2 pull-down removal and insertion; aspect ratio conversion and test-pattern generation; SDI/HD-SDI I/O.; 407-517-1086; fax: 407-517-1101; www.teranex.com
Circle (400) on Free Info Card

MPEG IMX VTRs



Sony MSW-2000 Series: VTRs that adopt MPEG-2 4:2:2P@ML I-frame up to 50Mb/s compression; supports SDTI-CP interface on all three models, migrates to MPEG bitstream infrastructure; provides Betacam SX playback capability as a standard; series consists of three models, MSW-2000, MSW-A2000 and MSW-M2000; series provides playback for digital Betacam, MPEG IMX, Betacam SX, and analog Betacam; 800-686-SONY; fax: 201-930-4752; www.sony.com/professional
Circle (391) on Free Info Card

DSNG encoder

Tadiran Scopus CODICO E-1500: encoder developed for DSNG operators to be used in Earth station or mobile applications; can be installed both in a vehicle flyaway or helicopter; offers fast access keys for modulation, courier on/off and convenient preprogrammed set-ups; modulator is full controlled from encoders front panel; 858-618-1600; fax: 858-618-1615; www.scopususa.com
Circle (394) on Free Info Card

Edge networking device

Tiernan Communications TUI30: extracts DVCPRO data from SDTI and encapsulates it in an MPEG-2 transport stream on DVB-ASI and vice versa; IT allows DVCPRO over satellite, ATM and PDH; automatically supports DVCPRO 25 and DVCPRO 50 in both PAL and NTSC formats; 800-323-0252; 858-587-0252; fax: 858-587-0257; www.tiernan.com
Circle (407) on Free Info Card

Series of data multiplexers



Tandberg Television evolution 5000 series: range includes solutions for encoding, multiplexing, modulation, statistical multiplexing and control software, available for both ATSC and DVB applications; 949-725-2500; fax: 949-725-2545; www.tandbergtv.com
Circle (395) on Free Info Card

Delay error corrector

Tektronix AVDC100: provides in-service monitoring and correction of A/V delay errors that occur during compression or other processing; allows user to reliably deliver video of definable quality; uses watermarking technology to embed audio time reference signals into video programming at the source; 800-426-2200; 503-627-7111; fax: 503-222-1542; www.tektronix.com
Circle (397) on Free Info Card

IOT tube

Thomson Components & Tubes TH 790: delivers 80kW of peak power in common amplification mode; designed for high-power UHF-TV transmitters; suited to transmission in NTSC or 8VSB and COFDM; offered with a dedicated TH 18790 cavity; a plug-in device designed for ease in installation; 973-812-9000; fax: 973-812-9050; tctus.com
Circle (404) on Free Info Card

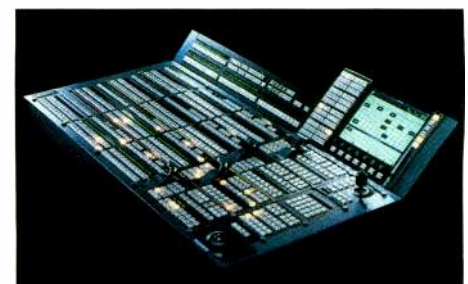


MPEG-2 transport stream redundancy switcher



Thomcast/Comark Amethyst ASI: this switching family includes the Amethyst Stand-alone Quad 1 + 1 Redundancy Switcher, designed for the switchover of up to four (1+1) configurations involving any kind of device generating an MPEG-2 transport stream; the Amethyst N+M Redundancy Switcher performs the intelligent protection of up to eight (N) transport streams with up to nine (N+M) Ambers, each being fed with up to eight transport stream inputs; 413-569-0116; fax: 413-569-0679; thomcastcom.com
Circle (401) on Free Info Card

Digital video mixers



Thomson Broadcast Alteo series: range of digital video production switchers with up to 54 inputs, 25 auxiliary buses, two chroma keys per M/E, two wipe generators per M/E, time-based correction on every source, RGB processing channels, framestores, unlimited hard-disks storage and four tally systems; 800-882-1824; 201-569-1650; fax: 201-569-1511; www.thomsonbroad.com
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Circle 154 on Free Info Card

HD studio cameras

Sony HDC-900/950: features a newly developed CCD images, 12-bit A/D and DSP LSI; features five selectable capture rates, 1080i at 60i or 50i or 1080p at 30p, 25p, or 24p; can include optional 720p outputs, in addition to SD outputs at 480p, 480i or 576i and options for NTSC or PAL; support 24p HD for DTV production.; 800-686-SONY; fax: 201-930-4752; www.sony.com/professional
Circle (390) on Free Info Card



Voltage regulators



Superior Electric (formerly Warner STABILINE WHR Series Automatic Voltage Regulator: a single phase, 3.6kVA narrow range electromechanical voltage regulator rated for 120V, 50/60Hz single-phase duty; utilizes a solid-state control module and variable transformer-driven power module; features include low impedance and high overload capacity.;800-787-3532; 860-585-4500; fax: 860-582-3784; www.warnernet.com/sev_main
Circle (393) on Free Info Card

MPEG-2 multiplexer

Thomson Broadcast Broadmux/XNA 4600: offers enhanced input capabilities and new features, such as opportunistic data management and internal splicing capabilities between MPEG-2 streams; the internal broadmux splicer can be triggered through in-band commands; the XNA 4600 enhanced the multimedia capacities of the 4600 ATM network interfaces and addresses the needs for transmission of audio-visual services over ATM.;800-882-1824; 201-569-1650; fax: 201-569-1511; www.thomsonbroad.com
Circle (402) on Free Info Card





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12 Bit

The new DEC-312S from Fortel DTV.

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HDTV/SDTV encoder



Tiernan Communications THE1: offers high-definition 4:2:2 encoding, simultaneous HD and SD encoding, multichannel SDTV capabilities, and IP data injection; modular media delivery platform provides future-proof flexibility; has ten module slots make it easy to adapt to changing requirements in contribution, distribution, and terrestrial broadcast networks; options include four channel SDI digital SDTV video input at 270Mb/s, four stereo audio input and compression, transport stream multiplexer MPEG, ATSC, and DVB compliant, and the new IP Data Injection Module; 800-323-0252; 858-587-0252; fax: 858-587-0252; www.tiernan.com

Circle (406) on Free Info Card

HD patchjack



Trompeter Electronics J314W: allows full 1080i uncompressed signal processing for HD; accepts 2.25GHz as maximum requirement for coax in-station wireline for HD on a terminated jack; the J314WT-75 (terminated version) achieves full levels of -23dB in normal thru condition and -15dB in the patch thru condition; 800-982-2629; 818-707-2020; fax: 818-706-1040; www.trompeter.com

Circle (408) on Free Info Card

HD onscreen monitor



VideoTek VTM-400HD: offers increased resolution and enhanced audio displays; includes on-screen measurement cursors for waveform amplitude and time, vector phase and real-time signal quality alarms with user-adjustable limits; also features 720p, 1080i and 1080p/24sF serial digital input formats, analog, AES/EBU and embedded audio inputs with analog monitoring; 800-800-5719; 610-327-2292; fax: 610-327-9295; www.videotek.com

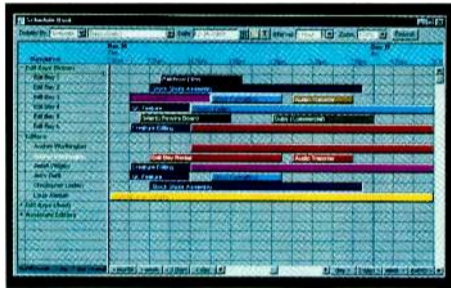
Circle (410) on Free Info Card

Digital video production switchers

Ross RVS210D & RVS 216D: digital versions of the RVS 210A and 216A single MLE video production switchers; features include 2D DVE, preview overlay and Ultimatte Insider, 210D is a 10-input switcher and 216D is a 16-input switcher; 613-652-4886; fax: 613-652-4425; www.rossvideo.com

Circle (440) on Free Info Card

Facility management system



Xytech Systems Scheduling Module: addresses a facility's scheduling requirements, including personnel and equipment; permits online scheduling, and conflict checking for any number or resources; allows user to track resource use and capacity projections; 818-767-7400; fax: 818-767-7430; www.xytechsystems.com

Circle (441) on Free Info Card

Audio analyzer with higher sampling rates



Audio Precision Portable One Dual Domain with 96 kHz sampling rate: includes 96kHz digital audio sampling rate option; allows for testing of digital devices, such as DVD, which uses the new 96kHz sampling rate; features a complement of digital interface testing and monitoring functions, including jitter generation and measurement, audio bit error rate and sample rate measurement; 800-231-7350; 503-627-0832; fax: 503-641-8906; www.audioprecision.com

Circle (442) on Free Info Card

Single and multicast router

Philips CleverCast Router: an integrated satellite DV unicast and multicast router; supports an unlimited number of multicast user and multiple concurrent users with high-speed Internet access; designed for Internet unicasting and multicasting via satellite; 800-962-4287; 818-729-7700; fax: 818-729-7710; www.broadcast.philips.com

Circle (443) on Free Info Card

Enhanced production switcher



VideoTek Digital Prodigy: includes additional keys, enhanced audio, aux/keyout functional and enhanced master control features; offers 10 primary crosspoints including black and color background, five serial digital video inputs, 24 wipe patterns, key memory and adjustable wipe border with color, size, softness and softness balance; 800-800-5719; 610-327-2292; fax: 610-327-9295; www.videotek.com

Circle (409) on Free Info Card

Serial digital video legalizers



VideoTek DL-800: legalizes 601 video for encoded and vector-based limiting rules, provides presets and automatically detects input video format; signal is evaluated in real time on a pixel-by-pixel basis and provide an output that is guaranteed to be within user specifications; features full EDH support, RS-232/422 and GPI control and 16-bit 4:4:4 internal control; 800-800-5719; 610-327-2292; fax: 610-327-9295; www.videotek.com

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Circle 121 on Free Info Card

Unattended networked monitoring system

VideoTek SpyderWeb: designed to communicate audio, video and timecode alarm information from the VTM-300 series and VTM-400HD monitor; alarms may be stored, logged directly to a printer or exported as text for future reference; 800-800-5719; 610-327-2292; fax: 610-327-9295; www.videotek.com

Circle (412) on Free Info Card

Digital broadcast monitoring system

Wavetek Wandel Goltermann WVG DTS-400: allows user to identify and isolate faults on the DVB network and remotely troubleshoot head-ends and DTV stations; features a scalable and flexible system, modularity for future network expansion and advanced channel monitoring with service checks and play-out list verification; 800-854-2708; 858-279-2200; fax: 858-627-0146; mpeg.wvgsolutions.com

Circle (414) on Free Info Card

Digitally controlled analog mixer w/5.1 monitoring

Wheatstone TV 1000: digitally controlled analog consoles for live TV, total console recall, router communication package, extensive mix-minus and communications; 252-638-7000; fax: 252-637-1285; www.wheatstone.com

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Professional satellite receiver

Wegener Communications Unity 5000: provides high-quality video for professional and studio applications; supports QPSK, 8PSK and 16QAM high orders of modulation for efficient bandwidth performance.; 800-848-9467; 770-814-4000; fax: 770-623-0698; www.wegener.com

Circle (416) on Free Info Card



BTR-300

Telex Communications, Inc.'s RadioCom™ BTR-300 wireless intercom system is the successor to Telex's industry standard BTR-200/RTSTM 2105 wireless VHF intercom system. The BTR-300 has been optimized for the realities of today's expanded frequency spectrum. Taking into account the increasing presence of digital television (DTV), the BTR-300 offers twice the available frequency bands of its predecessors.

Today's broadcasters have an increased need for flexibility and mobility in ENG, studio and field production environments. The BTR-300 system, with its increased number of channels, improved battery life and ruggedized case meets those needs in ways no other products can.

Improved front-end filtering allows the BTR-300 to be used in places where other wireless intercoms can't function due to interference from other transmitters. Additional filtering capabilities and channel assignments also allow a greater number of base stations and beltpacks to be used simultaneously. Up to four base stations and 16 separate beltpacks can be used at one time with the BTR-300.

The BTR-300 also incorporates improved audio circuitry for greater flexibility in connecting to a wide variety of wired intercom systems and external audio equipment. The BTR-300 is compatible with such intercom systems as RTS TW, AudioCom®, RTS ADAM™ and Matrix Plus.

The TR-300 beltpacks have been redesigned to reinforce and strengthen key "pressure points" giving them even more "survivability" in hard use environments. Nickel Metal Hydride batteries and a plug-in charger will be available as an option. The Nickel Metal Hydride batteries will provide even longer operating time between charges and improved reliability over the more common ni-cad batteries used in other units. The TR-300 beltpacks will also be supplied with a built-in charge jack, allowing battery recharging without removing the battery pack.

Today's technology is allowing broadcasters to perform more demanding applications, faster and easier. As a result, they need equipment that will be able to keep pace with them. The BTR-300 combines several of the characteristics required for modern broadcast production: ease-of-use, quality, flexibility and reliable performance.

Circle 124 on Free Info Card

CSI-200

Telex Communications, Inc.'s CSI-200 coaxial interface permits any RTS® Matrix keypanel including the KP-32 series, the KP-12 series, the KP-9X series and the Cost Effective Series—to be connected to an ADAM™, ADAM-CS™, ZEUST™ or CS-9000 series intercom via a single coaxial cable.

Each CSI-200 interface provides 2 complete, independent interfaces in a single ½ RU box. Each interface converts 2 audio signals (one send, one receive) from balanced analog to a 48 kHz, 24-bit signal, and a bi-directional data, and transports all of them over a single coaxial cable. With standard broadcast 75 ohm coaxial cable, distances in excess of 1,000 feet are possible.

The CSI-200 provides a number of solutions for broadcasters, particularly for remote broadcasts and other 'short-term' installations. A pair of CSI-200 interfaces (one per end) permits two independent keypanels to be supported, or permits a single keypanel and an auxiliary audio to be supported for remote IFB or program monitoring.

Applications specific to RTS Digital Matrix intercoms include remote keypanel operation, remote trunking and remote IFB. The CSI-200 is designed to "drop in" to existing RTS systems. The CSI 200 requires no set-up or user adjustment and is truly plug and play.

The CSI-200 can also be used as a stand-alone audio product, permitting bi-directional audio to be sent over a single coaxial cable in a very cost-effective manner. Broadcasters can use a single CSI 200 pair to connect an intercom panel and provide CD-quality program audio to and from a remote truck to the booth for sporting events. The CSI-200 is the newest product in a line of planned interfaces which will be available for stand-alone use, and for integration into the new KP 32 series of keypanels.

Housed in a standard RTS "MCE" style enclosure, the CSI-200 is one half-rack wide by one RU high. The casing is a sturdy, rugged aluminum extrusion. It's exceptional for 'on-the-road' survivability.

Circle 125 on Free Info Card

KP-32

Telex Communications, Inc.'s RTS™ KP-32 keypanel provides 30 talk/listen keys, full programmability, high brightness, long-life fluorescent displays and DSP signal processing and routing in just 2 RU of space. Rounding out the line are the KP-32/16, a very cost-effective 16-key version of the KP-32; the EKP-32, a 32-key expansion panel; and the LCP-32/16 1 RU level control panel.

The KP-32 is a completely enhanced, programmable keypanel with double the number of channels over the KP9X. The KP-32 provides more functionality and channels in 2 RU than any competing product, making it perfect for everything from consoles to OB vans.

The Digital Signal Processing (DSP) of the KP-32 improves communications intelligibility while adding new mixing, metering and filtering capabilities. The DSP mixing feature is especially important in conjunction with the 5-pin headset connector. Now, users can independently assign and mix mic, intercom and 2 auxiliary audio sources to the left or right headphone. The bright, fluorescent displays of the KP-32 also provide improved visibility and longer life than standard LCD displays and the adjustable brightness control makes it ideal for all varieties of ambient lighting from direct sunlight to darkness.

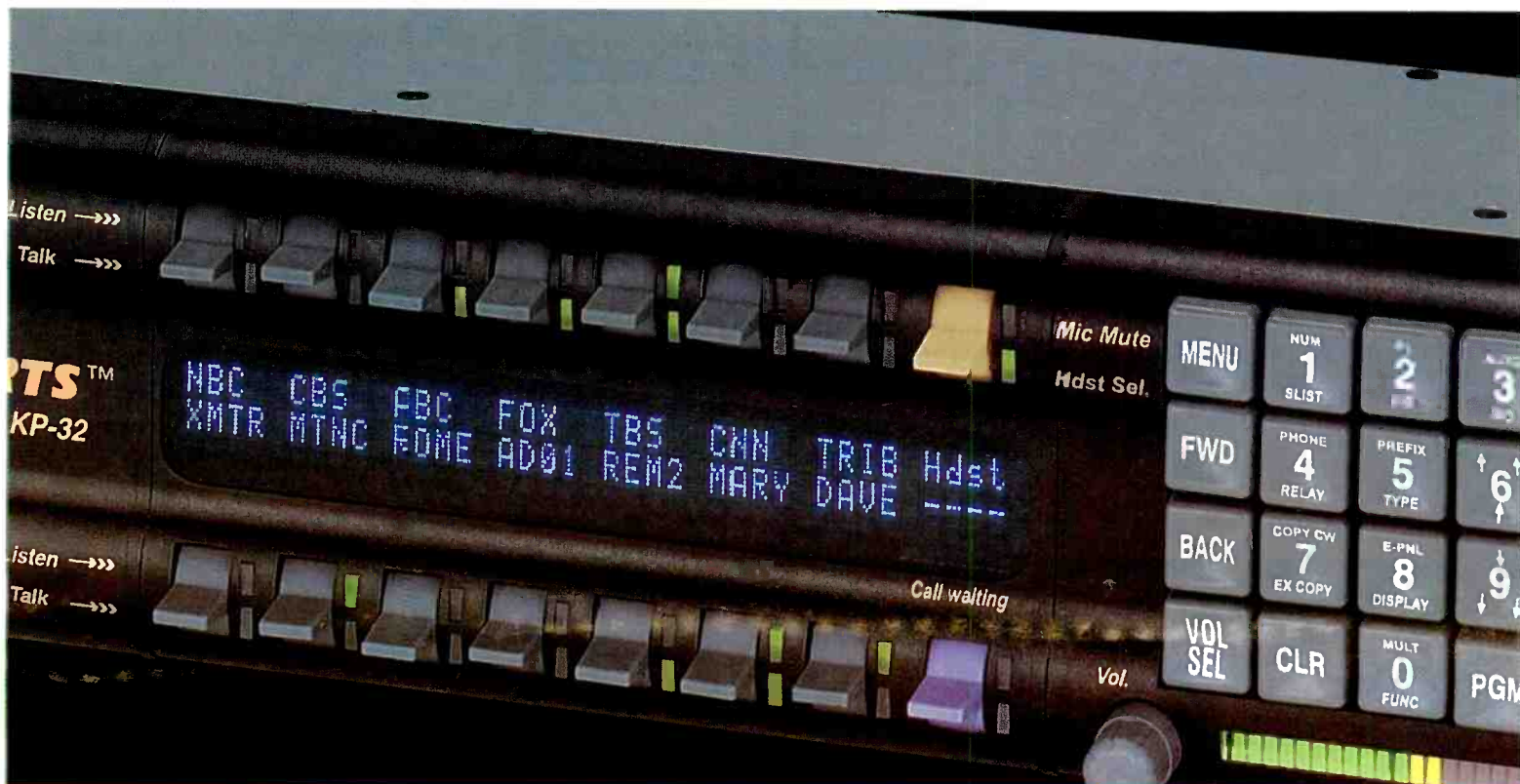
Upgrades are only a mouse click away for the KP-32. Firmware updates can be received over the Internet or via floppy disk, then downloaded to the unit through its intercom connection. The keypanel is also ready for all future communication enhancements including coax, fiber and ISDN interconnect.

The enhanced programming keypad provides all the command subsets of the KP9X keypad, in addition to a host of new keypad commands.

The Connector Module (factory install or add-on) also offers connectors for two line-level audio inputs, an unswitched mic preamp output and an external headset and speaker. The option also provides extensive GPI capability, programmable through the keypanel or ADAM™ and ZEUST™ edit configuration programs. The KP-32 family of keypanels and accessories are available in RTS gray or matte black finish, and all models are currently available for delivery.



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Multichannel monitors

Zandar Technologies MX-4 Quad and MX-16 Multiviewers: directly address the problems of multi-channel monitoring, cost, space, operator-use, and alarm notification; MX-16 is just 1RU high, but packs 16 high-quality video sources onto one screen -- NTSC, PAL or VGA; front panel or RS-232 control, pre-set displays, channel IDs and GPIO; tally status is indicated via a border color change, alarm conditions via flashing border, while individual inputs can be displayed full screen too; 408-782-9725; fax 408-782-9825; www.zandar.com

Circle (444) on Free Info Card

Serial digital monitoring system

Magni Systems SDM 560: offers day-to-day monitoring of serial digital 601 and composite signals displayed on a composite or SDI video monitors; features include jitter measurement, waveform, vector, audio, EDH and gamut monitoring, error detection and reporting; 800-237-5964; 503-615-1900; fax: 503-615-1999; www.magnisystems.com

Circle (445) on Free Info Card

Digital tape degausser

Garner Industries Eliminator 4000FS: digital tape degausser with electromagnetic fields; shielding reduces radiated EMFs; degausses hard-to-erase digital formats, such as DVCPro, DVCam and Digital-S; 800-228-0275; 402-434-9100; fax: 402-434-9133; www.garnerindustries.com

Circle (446) on Free Info Card



12-bit digital triax camera



Thomson Broadcast 1707: designed for intensive use in all kinds of studio and many OB applications; an all-digital camera from acquisition to transmission over triaxial cable; features digital triax link with no compression and lightweight, easy-to-handle, single-piece configuration; offers 12-bit acquisition and 24-bit signal processing; 800-882-1824; 201-569-1650; fax: 201-569-1511; www.thomsonbroad.com

Circle (447) on Free Info Card

64x64 to 128x128 digital or analog

Sierra Video Systems Yosemite: frames range from 64x64, 96x96 and 128x128; supports both analog and digital video and audio; users can populate frame with analog components and later substitute any digital module as needs arrive; also permits cohabitation of analog and digital modules on the same frame; frames can be populated at 32x32 and then expanded; 530-478-1000; fax: 530-478-1105; www.sierravideo.com

Circle (448) on Free Info Card

Tracking AI software

AFA Products Group Traxim: available in HD or SD; a tool for isolating objects from their background since the chroma key; defines the edge of objects or elements; follows object or element as it moves in the scene using advanced image processing techniques; integral DDR chases telecine or VTR providing real-time object-based auto-tracking windows for use in color correction; 201-750-3200; fax: 201-750-3049; www.afassoc.com

Circle (449) on Free Info Card

Digital TV exciter

ADC Broadcast 701D: an ATSC/NTSC digital exciter represents a new level of performance in the DTV arena; consists of several subsystems, each contained on a single board; has a central control processor that performs initial loading of all other modules and monitors performance; SMPTE-310M receiver assembly accepts the ATSC standard serial digital stream; 800-215-2614; 724-941-1500; fax: 724-941-4603; www.adc.com/broadcast

Circle (450) on Free Info Card

Media delivery device

Telestream ClipExpress: transports video/audio/timecode over a choice of data networks; designed for business users and content creators; compression selections range from MPEG-1 384Kb/s to MPEG-2 8Mb/s; includes video/audio I/Os for acquisition and laying off to a variety of tape formats; built-in standards conversion for convenient delivery; 877-CLPMail; fax: 530-470-1301; www.telestream.net

Circle (451) on Free Info Card

MPEG digital videocassettes

Sony BCT-MX series videocassettes: 1/2-inch videocassettes designed for use in MPEG IMX VTRs; offers MPEG 50 three-hour recording times in large cassettes and up to 60 minutes in small cassettes; MPEG 50 recorder head design results in higher tape output; 800-686-Sony; fax: 201-930-4752; www.sony.com/professional

Circle (452) on Free Info Card

Fibre channel RAID storage

Hammer Storage Solutions SLPRO12-FC/FC-FT: a fault-tolerant, rack-mountable desktop or tower Fibre Channel storage subsystem; supports up to 12 FCAL disk drives per enclosure with 600GB storage per enclosure; expandable up to 25TB; RAID engines deliver up to 190MB/s throughput and are hot pluggable and hot swappable; provides maximum data availability; 510-608-4000; fax: 510-608-4010; www.hammerstorage.com

Circle (455) on Free Info Card

Reference-quality 8VSB receiver



Modulation Sciences msi2080: unit is designed to deliver the highest levels of functionality along with the ability to easily upgraded; key features include real-time pictures and parameter readings, real-time and virtual constellation displays, equalizer tap-weight display, and Reed-Solomon and Trellis signal-to-noise readings; uses the Modulation Sciences' msi320 video demodulator as the front end; 800-826-2603; 732-302-3090; fax 732-302-0206; www.modsci.com

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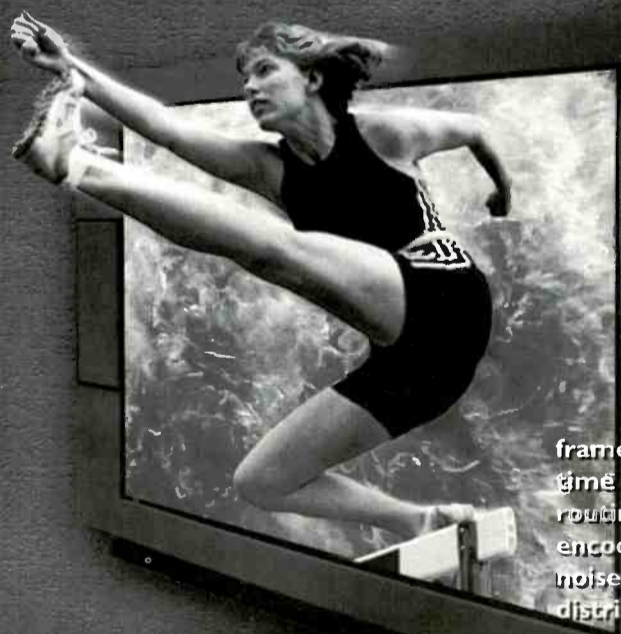
Digital on-air console

Arrakis Digital Revolution series digital consoles: rack-mounted, digital broadcast console with both digital and analog inputs; occupying 3RU, the console is controlled by an external PC running the Cool-Mix software or from a slide-fader control surface; available with 12 or 18 channels with two inputs per channel, three PGM buses, two mix-minus buses, stereo monitor, headphone output, cue bus output; includes machine control logic, remote channel on/off, five on-board mic pre-amps; 12 channel version can be upgraded to the 18 channel version; 970-224-2248; fax: 970-493-1076; www.arrakis-systems.com

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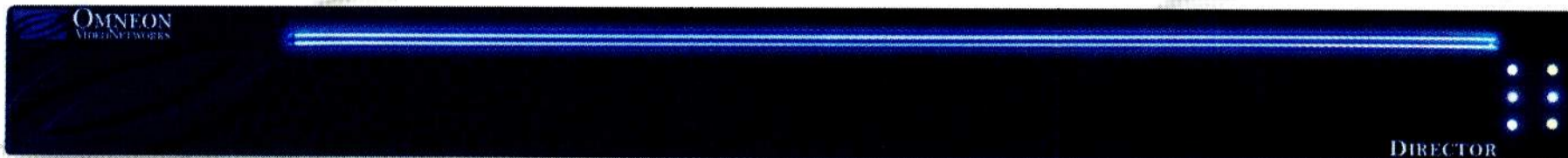
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IEEE 1394 SDI/SDTI Ethernet RS422 Fiber

The Integrated Networking and Storage Infrastructure for New Media

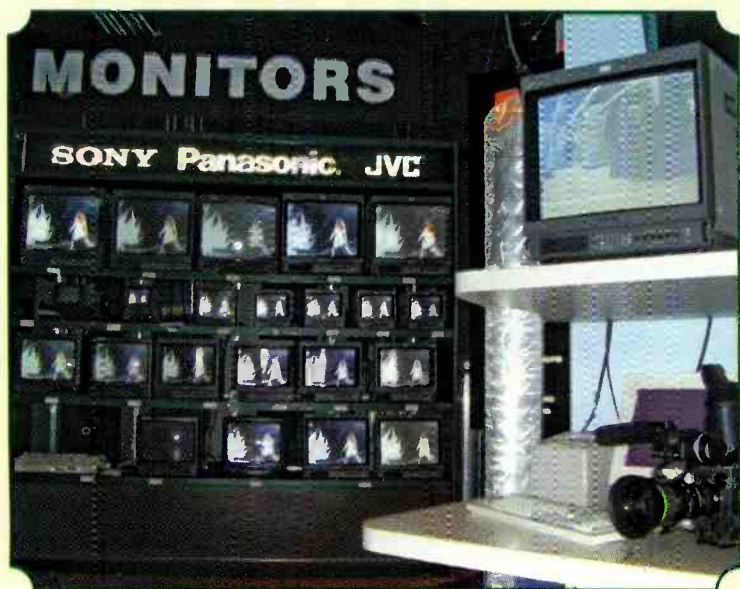
Now a digital networking and storage infrastructure delivers the *flexibility* to connect all the leading distribution, production and media management technologies via standard networks to a scalable resource of multi-format storage; the *scalability* to provide more bandwidth in more formats to more channels and production suites than ever before; and *compatibility* to integrate seamlessly with current systems for easy upgrades today, while equipping your operation for the future. The performance of OMNEON'S VIDEO AREA NETWORK sets a new value standard for the industry. The unparalleled functionality makes the VIDEO AREA NETWORK the ideal networking and storage infrastructure for the digital television marketplace.

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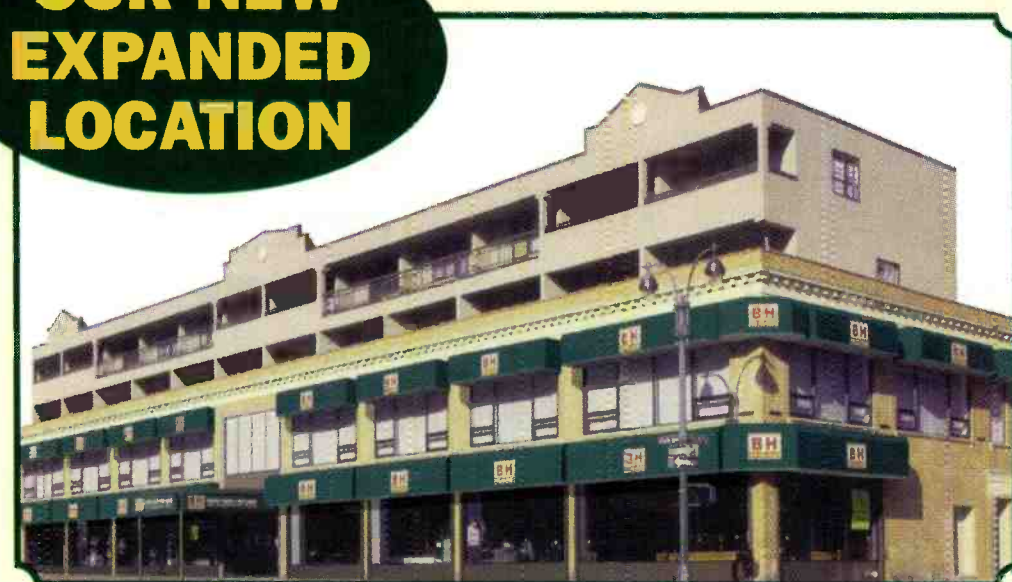
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SONY

DSR-200A 3-CCD Digital (DVCAM) Camcorder

Combining a compact and lightweight body with the superior picture quality of DSP (Digital Signal Processing) and the DVCAM format, the DSR-200A is the ideal acquisition tool for video journalists, event and wedding videographers, stringers and production houses. 500 lines of horizontal resolution, 48kHz or 32kHz digital audio, three hour record time, and minimum illumination of 3 lux is only the beginning. Other features include 16:9/4:3 capability, Steady Shot, high resolution 1-inch viewfinder, time code operation, time/date superimposition and an IEEE-1394 interface for direct digital output. Offers full automatic as well as manual control of focus, iris, gain, white balance and shutter speed.



- Variable servo 10X optical power zoom lens goes from 5.9 to 59mm in 1.7 to 24 seconds. The manual zoom rocker is continuously variable right up to where the digital 20X zoom kicks in.
- Sony's Super Steady Shot reduces high frequency camera shake without compromising image quality. SteadyShot uses horizontal and vertical motion sensors that allow it to work accurately while zooming, moving (even shooting from a car), and shooting in low light conditions.
- Has digital effects including audio and video fade, overlap and Slow Shutter.
- Automatic and manual focus, iris, shutter, gain and white balance. Iris is adjustable in 12 levels from F1.6 to F11, shutter from 1/4 to 1/10,000 of a second in 12 steps, Gain from -3dB to +18dB in 8 steps.
- Zebra Pattern indicator, built-in ND filter.
- Custom Preset function lets you preset, store and recall custom settings for color intensity, white balance (bluish or reddish), sharpness and brightness.

- Stores Photo, Date/Time, Shutter Speed, Iris, Gain and F-stop for easy recall. So if you have to re-shoot, you know your original settings for every scene and frame.
- Records Drop/Non-Drop Frame time code. Time code can be read either as RC time code or as SMPTE time code
- Has a large 1-inch B&W viewfinder with 550 lines of resolution for easy focusing even in low contrast lighting situations. Separate information sub panel displays time code, battery time, tape remaining and other camcorder functions without cluttering up the viewfinder.
- Records 16-bit/48kHz audio on one stereo track or 12-bit/32kHz with two pairs of stereo tracks (L1/R1, L2/R2), so you can add stereo music or narration.
- One-point stereo electret condenser mic for clear stereo separation. Directivity can be selected from 0°, 90° & 120°.
- Automatic & manual (20-step) audio level record controls. Monitor audio with headphones or from the LCD panel which has an active VU meter.
- XLR input connectors for mics and audio equipment.

DSR-20/40 DVCAM Player/Recorders

The DSR-20 and DSR-40 are versatile DVCAM VCRs with compact chassis' and a variety of convenient functions for recording, playback and simple editing. They feature Auto Repeat Playback, Power-On Recording/Playback, multiple machine control interfaces and i.Link (IEEE1394) input and output. And, of course, they offer the stunning image and sound quality inherent to the DVCAM format.

i.LINK

- They both offer i.LINK (IEEE1394) input and output. In addition, in the "Digital dubbing including TC Copy" mode, full information of video, audio and time code of the original tape can be copied to another tape. Especially useful when making working copies of the original.

Inputs and Outputs

- They provide a full range of analog video inputs and outputs for integration into current analog-based systems. They both offer composite and S-Video input/output, while the DSR-40 (only) offers a component output as well. The DSR-20 is equipped with analog audio inputs and outputs (RCA), the DSR-40 with RCA inputs and XLR-balanced output. These connections in combination with their i.LINK interface allow a smooth transition to an all digital system in the future.

Record/Playback Functions

- Automatic repeat function for repeated playback. After reaching either the end of the tape, the first blank portion of the tape is repeated.
- The DSR-20 can be powered by AC or DC.
- Equipped with Control L interface, the DSR-20 can perform simple Time Code-based editing when connected to another DSR-20 or other similarly equipped VCRs/cameras.

DSR-20 Only

- In addition to Control L, the DSR-20 also incorporates an RS-232 interface for remote control of basic VCR functions from a PC.
- Supplied with the RMT-DS20 Wireless Remote for control of basic VCR functions.

DSR-40 Only

- Equipped with an RS-422A interface, the DSR-40 can perform as the editing player in A/B roll or cut editing system.
- It also has a simple recording function which can be used to record a scene or the first index point, the DSR-20/40 automatically rewinds the tape, then starts playing back the segment again.
- They are capable of searching for Index Points, which are recorded on the tape as "in-point" marks every time a recording starts. They can also search for photo data recorded on a DVCAM cassette by the DSR-200A/300/PD-100, or where the recording date has been changed.

Reference Input

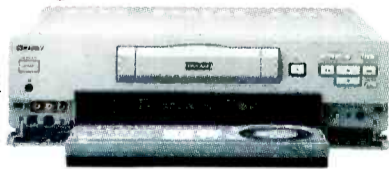
- External sync input enables synchronized playback with other VCRs. Especially important in A/B Roll configurations. In addition, the DSR-40 only allows adjustment of H-sync and SC phase via the menu.

Control S Interface

- The DSR-20/DSR-40 have a Control S input allowing control via the optional DSRM-20 Remote Control.
- The DSR-20 adds a Control S output connector allowing two or more (up to 50) DSR-20s to be daisy-chained and controlled from one DSRM-20.

DSR-30 DVCAM Digital VCR

The DSR-30 is an industrial grade DVCAM VCR that can be used for recording, playback and editing. DV standard 4:1:1 sampling digital component recording with a 5:1 compression ratio provides spectacular picture quality and multi-generation performance. It has a Control L interface for editing with other Control L based recorders such as the DSR-200A DVCAM Camcorder or another DSR-30. It also has a continuous auto repeat playback function making it ideal for kiosks and other point of information displays. Other features include high quality digital audio, IEEE-1394 Digital interface and external timer recording. The DSR-30 can accept both Mini and Standard DVCAM cassettes for up to 184 minutes of recording time, and can playback consumer DV tapes as well.



- Records PCM digital audio at either 48kHz (16-bit 2 channel) or at 32kHz (12-bit 4 channel)
- Equipped with Control L, capable of SMPTE Time Code based accurate editing even without an edit controller. Built in editing functions include assemble and separate video and audio insert.
- By searching for either an Index point or Photo Data recorded by the DSR-200A camcorder, the DSR-30 drastically cuts the time usually required for editing. The DSR-30 can record up to 135 Index points on the Cassette Memory thanks to its 16K bits capability.
- Audio lock ensures audio is fully synchronized with the video for absolute precision when doing an insert edit.

- Built-in control tray has a jog/shuttle dial, VCR and edit function buttons. The jog/shuttle dial allows picture search at ±1/5 to 15X normal speed and controls not only the DSR-30 but also a player hooked up through its LANC interface
- DV In/Out (IEEE 1394) for digital dubbing of video, audio and data ID with no loss in quality.
- Analog audio and video input/outputs make it fully compatible with non-digital equipment. Playback compatibility with consumer DV tapes allows you to work with footage recorded on consumer-grade equipment. Tapes recorded in the DSR-30 are also compatible with Sony's high-end DVCAM VCR's.



Panasonic

Broadcast & Television Systems



AG-EZ1 3-CCD Digital Video Camcorder

- Digital recording delivers 500 lines of horizontal resolution with no noise. (S/N ratio is 54dB).
- 10:1 power and 20:1 digital zoom lens. Both zooms are adjustable in four speeds (3.5-15 sec.) For extreme close-ups the lens can focus up to 1/4" from the subject
- Audio is also digital, using PCM (Pulse Code Modulation) for quality that rivals CDs. Choose between two-channel 16-bit recording or two sets of 12-bit stereo, with the second set reserved for uses such as narration
- Huge 1.5" 180,000 pixel color viewfinder provides 400 lines of resolution and displays all automatic and manual functions on demand
- Variable speed shutter from 1/60-1/8000 of a second
- Built-in SMPTE time code generator
- Digital Electronic Image Stabilizer (DEIS) compensates for jittery videospecially when the digital zoom is employed

- Digital Photo-Shot lets you record a still-frame for six seconds, while audio continues as normal. 290 still pictures can be recorded on a single 30-minute tape.
- Three ways to easily find previously recorded scenes:
 - TopScan plays back the first few seconds of each segment, providing a handy way to review an entire tape.
 - Record/Review rewinds the camcorder and plays the last 10 seconds of the last recorded scene
 - Indexing encodes the first scene shot on a given day, to quickly find the starting point of each day's shooting



\$1695

SONY DSR-300 3-CCD Digital (DVCAM) Camcorder

The most advanced DVCAM camcorder, the incredibly affordable DSR-300 incorporates three 1/2-inch CCDs. DSP digital technology and is the only one-piece camcorder in its class with 100% total digital transfer between the camera section and the VCR section.



High Performance:

- Three 1/2-inch 410,000 pixel PowerHAD CCDs provide high quality acquisition with increased sensitivity plus "FIT like" reduced vertical smear of -110dB.
- Delivers high quality, artifact-free images. Offers an outstanding 800 lines of horizontal resolution, a sensitivity of F11 at 2000 lux and a true minimum illumination of 0.5 lux. It also features an advanced LSI Digital Signal Processor (the same one used by the DXC-D30) for a high S/N ratio of 62dB.
- Hyper Gain mode using DPR (dual pixel readout) allows shooting in extremely low light with virtually no noise.

Digital Signal Processing:

- Skin Tone Detail and Correction - Offers a more natural appearance by smoothing details in the picture. A feature normally found in much higher priced cameras, Skin Tone Detail and Correction reduces and controls wrinkles in the selected skin area without changing the other areas of the image.
- TruEye and DynaLatitude- Just like in the DXC-D30, this feature allows the camera to reproduce natural colors

- with a wide dynamic range of contrast.
- Black Stretch and Compress: Emphasizes the contrast in dark areas of the picture without any color changes that would require color correction in the editing process.

Digital Functions:

- Very similar to the DSR-1, the VCR section includes SetupLog, FreezeMix and EditSearch functions. SetupLog automatically records status of the camera settings onto the DVCAM cassette throughout the shooting process. FreezeMix and EditSearch allow you to search for a certain scene and retake if necessary by superimposing the recorded image to the live image in the viewfinder.
- ClipLink logging is also available using the optional DSBK-301 interface board. ClipLink records index pictures on the tape as well as, shot list data, logging function (reel #, time code, take # and OK/NG (No Good) shot information.

NEW! JVC GY-DV500 1/2-inch 3-CCD Professional DV Camcorder

The world's first DV camcorder designed from the ground up for professional ENG work, the GY-DV500 combines the convenience and cost-effectiveness of Mini DV with the performance and features you need. It incorporates three 1/2-inch 380,000 pixel IT CCDs for superior picture performance (equivalent to 750 lines of resolution) superb sensitivity of F11 at 2000 lux and minimum illumination of 0.75 lux (LoLux mode). Ruggedly constructed with a rigid diecast magnesium housing providing the durability professionals crave, the GY-DV500's compact design and light weight (less than 11 lbs. fully loaded) makes it extremely portable. Additional features like the menu dial and Super Scene Finder assure ease-of-use and shooting flexibility, while the IEEE1394 and RS-232 interface allow integration into various non-linear and post-production systems. A professional camcorder in every sense, the compact, lightweight GY-DV500 redefines acquisition for corporate, educational, cable and broadcast production, as well as wedding videography and multimedia applications.



Professional Specifications

- Applies JVC's DSP with advanced 14-bit video processing to bring out more natural details, eliminate spot noise, accurately reproduce dark areas, and restore color information in dark areas.
- CCDs are equipped with advanced circuitry to virtually eliminate vertical smear when shooting bright lights in a dark room. Ensures efficient light conversion with a sensitivity of F11 at 2000 lux.
- CCD Defect Correction function evaluates white defects with the lens closed and then stores their addresses in memory. When the camera is turned on, the data is sent to the DSP for storage and real-time correction.
- Black Stretch/Compress function ensures accurate reproduction of black areas on the screen. Advanced color matrix circuits give even difficult images a very natural appearance.
- Multi-stream parallel digital pipeline processing at 40 MHz creates an ultra-smooth gamma curve, calculated using a true log scale algorithm. The result is a dynamic range of 600% to accurately reproduce fine details and colors in shadows or highlights.

Professional Performance

- Multi-zone iris weighting system gives priority to objects at the central and lower portions of the picture for accurate auto exposure under any condition, even if a bright subject moves into the picture.

- Adjustable gamma for adjusting the "feel" of the picture according to taste. Adjustable detail frequency for setting picture sharpness for a bolder or finer look.
- Viewfinder status display uses characters and menus to display selected information, including audio indicator, tape and battery remaining time, VCR operation and warning indicators. Camera settings and setup parameters can also be checked at a glance. A built-in menu dial lets you quickly navigate through the viewfinder menu.
- Highlight Chroma Processing maintains color saturation in highlights. The result is natural color reproduction, even in bright highlight portions of the picture.
- Smooth Transition mode ensures a smooth transition with no jump in color or light level taking place when manually changing gain or white balance settings

Professional Audio

- To complement its superior video performance, the GY-DV500 offers outstanding digital PCM sound. You can choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels with a dynamic range of 85 dB.
- In addition to camera mounted mic, has two XLR-balanced audio inputs with 48v phantom power and manual audio control. Phantom power can be switched off when not in use.
- Side-mounted speaker lets you monitor audio in playback and recording modes without headphones. The speaker also delivers audible warnings.

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antonbauer HyTRON 50 Battery

Weighing a mere 31oz (880 grams) and packing 50 Watt-hours of energy - enough to operate a typical ENG camcorder for two hours, the HyTRON 50 is the most advanced lightweight battery in the industry.

- Made possible by recent advancements in a cell technology originally designed for the mobile computing industry, it incorporates nickel metal hydride cells that provide the highest energy density of any rechargeable cylindrical cell available. High performance is further assured through the integration of Anton/Bauer InterActive digital technology.
- Equipped with an on-board "fuel computer" which monitors energy input and output as well as critical operating characteristics and conditions. This data is communicated to the InterActive charger to ensure safety and optimize reliability.
- In addition, remaining battery capacity information is available by means of an LCD display on each battery and in the view-finder of the most popular broadcast & professional camcorders.
- Special low voltage limiter prevents potentially damaging overdischarge.

Specifications: 14.4 V, 50 WH (Watt Hours)
 5-3/4" x 3-1/2" x 2-1/4", 1.9 lbs (88kg)
 Typical runtime: 2 hours @ 25 Watts 3 hours @ 17 Watts

QUAD 2702/2401 Four-Position Power/Chargers

The lightest and slimmest full featured four position chargers ever, they can fast charge four Gold Mount batteries and can be expanded to charge up to eight. They also offer power from any AC main: in a package the size of a notebook computer and weighing a mere four lbs! The 40 watt 2401 can charge ProPacs in two hours and TrimPacs in one. Add the Diagnostic/ Discharge module and the QUAD 2401 becomes an all purpose power and test system. The 70 watt QUAD 2702 has the module and is the ultimate professional power system.



Steadicam Video SK2

Incorporating the same design principles as its larger Oscar and Emmy winning Steadicam cousins, the Video SK 2 is designed for cameras weighing from 9-19 lbs. Far more compact and less complex, the complete SK2 system - sled, stabilizer arm and vest - weighs a mere 21 lbs and fits neatly into the trunk of a car.

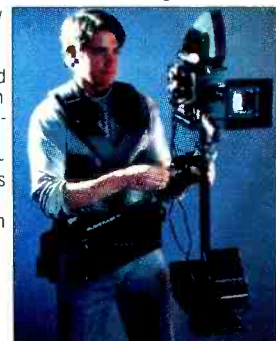


Balancing is easier than ever and a single battery operates both camera and Steadicam. In fact, the SK2 is the only Steadicam simple enough to be operated without workshop training. A comprehensive instructional video will have you up and running in hours. But make no mistake, the lightweight Video SK2 performs like a true heavyweight. Shoot on the move effortlessly, without cranes, booms or dollies. The sled-mounted monitor offers a crystal-clear picture, so your eyes are no longer glued to your camera's eyepiece. And with the weight spread comfortably over your torso you can shoot on the run, climbing stairs or even from a moving vehicle. With one smooth tracking shot capture what used to require five or six setups. An optional low-mode bracket can further enhance your creativity. Whether you shoot commercials, industrials or documentaries, the SK2 lets you offer more flexibility that ever before. If you can imagine a shot, you can shoot it more efficiently, more economically and more creatively than with any other other equipment.



V-16 AND V-20 Camera Stabilization Systems

The V-16 and V-20 allow you to walk, run, go up and down stairs, shoot from moving vehicles and travel over uneven terrain without any camera instability or shake. The V-16 stabilizes cameras weighing from 10 to 20 pounds and the V-20 from 15 to 26 pounds. They are both perfect for shooting the type of ultra-smooth tracking shots that take your audience's and client's breath away - instantly adding high production value to every scene. Whether you are shooting commercials, industrials, documentaries, music videos, news, or full length motion pictures, the Glidecam "V" series will take you where few others have traveled.



sachtler Tripods and Fluid Heads

DV Systems—Digital Support for Every Budget

Today's compact digital cameras require light, fast and highly versatile camera support systems. Starting from the DV2 all the way up to the DV12, Sachtler has a solution tailored for just about every conceivable digital camera package available today. All feature Sachtler's patented counterbalance system and Touch and Go wedge plates. And all except the DV2 feature sliding camera platform to ease in the balancing of your camera.

DV2 System

- The smallest head of the Sachtler's line.
- Sachtler Touch and Go quick release with automatic camera lock and safety lever/drop protection
- One step of dynamic counterbalance
- Frictionless leak proof fluid damping with one levels of drag
- Vibrationless vertical/horizontal brakes
- Built in bubble for horizontal leveling
- Single Stage 75mm tripod DA 75 Long
- Lightweight floor spreader SP 75

This system (0210) consists of:
 Fluid Head (DV-2), Long Tripod (DA 75), floor spreader (SP 75)

DV4XD System

Same as the DV4 PLUS —
 • Five step of dynamic counterbalance
 • Five step of vertical and horizontal drag

DV4XD System (0610) consists of:
 Fluid Head (DV-6), Long Tripod (DA 75), floor spreader (SP 75)

DV4 System

- Sliding balance plate
- Touch and Go quick release with automatic camera lock and safety lever/drop protection
- One step of dynamic counterbalance
- Frictionless leak proof fluid damping with one levels of drag
- Vibrationless vertical/horizontal brakes
- Built in bubble for horizontal leveling
- Single stage 75mm long tripod DA 75
- Lightweight floor spreader SP 75

DV4 System (0410) consists of:
 Fluid Head (DV-4), Long Tripod (DA 75), floor spreader (SP 75)



DV8 System

Same as DV6 PLUS — • Greater load capacity
 DV8 System (0810) consists of:
 Fluid Head (DV-8), Long Tripod (DA 75), floor spreader (SP 75)

DV12

Same as DV8 PLUS — • Great Load Capacity • Fits 100mm tripods



15" and 17" On Camera Promoters

The 15" and 17" On Camera promoter is the industry standard and designed for use with any camera, for any application. The high contrast, high resolution monitor, created by QTV, is the result of state of the art components and design. The monitor permits a much greater degree of tilt because of its cutaway feature. Its VPS Eyeline feature superimposes copy over the camera lens, enabling the reader to maintain maximum eye-to-eye contact. It's easy and comfortable to read. QTV's On Camera promoter will make sure the talent has clear access to the promoter. The 17" model has a viewing area of 123 sq. inches, 39% more than the 15" model. The 15" On Camera promoter is also available in a free standing pedestal model, which can be utilized both in the studio and in remote situations.



MVP-12

The MVP-12 incorporates QTV's latest design technology for studio and EFP prompting. The MVP-12 features the most advanced circuitry for a promoter of this size. Fully self-contained, it offers high brightness and high resolution that ensures unmatched ease of readability for the speaker. The MVP-12 is powered by AC or DC current utilizing the Sony

type NP-1 or Anton Bauer 13-14 volt batteries, allowing on-location as well as studio prompting. It weighs only 19 lbs. including the quick release roller plate for fast mounting and balancing. Below the lens mounting is utilized resulting ideal counter balancing for ease of operation.

MVP-9 Mini Videoprompter

The MVP-9 mini videoprompter is designed for use with smaller cameras and small spaces. The same level of performance is achieved as the larger CRT based units but in a smaller configuration that is powered by AC or DC current (as above). Created for the new generation of smaller, lighter

cameras, the MVP-9 weighs only 17 1/2lbs and both the monitor and camera mount set up quickly and easily. As with the other units the VPS Eyeline feature assures maximum eye contact with lens while easily reading the script. It packs up very tightly, making it easy to take anywhere

SONY

PVW-2600/PVW-2650/PVW-2800

Betacam SP Pro Series

Whenever versatility and no compromise performance is needed, there is only one choice. Legendary reliability and comprehensive support for its many users has established the PVW series as the standard in broadcast and post production. The PVW Series includes the PVW-2600 Player, PVW-2650 Player with Dynamic Tracking and the PVW-2800 Editing Recorder. They feature built-in TBCs, LTC/VITC time code operation and RS-422 serial interface. They also offer composite, S-Video and component video inputs and outputs. Most important they are built for heavy, every day duty.

- Built-in TBC's and digital dropout compensation assure consistent picture performance. Remote TBC adjustment can be done using the optional BVR-50 TBC Remote Control.
- The PVW-2600, PVW-2650 and PVW-2800 (generates as well) read VITC/ LTC time code as well as User Bits. Ext/Int time code, Regen/Preset, or Rec-Run/ Free-Run selections
- Built-in character generator displays time code or CTL data.
- Set-up menu for presetting many functional parameters.
- Two longitudinal audio channels with Dolby C-type NR.
- Recognizable monochrome pictures at up to 24X normal speed in forward and reverse. Color at speeds up to 10X
- Two types of component connection; three BNC connectors or a Betacam 12-pin dub connector. They have composite and S-Video signals as well.
- Dynamic Tracking (DT) playback from -1 to +3 times normal speed.
- Built-in comprehensive editing facilities.
- Dynamic Motion Control with memory provides slow motion editing capability.



800 SERIES UHF WIRELESS MICROPHONE SYSTEMS

Consisting of 5 handheld and bodypack transmitters and 6 different receivers, Sony's UHF is recognized as the outstanding wireless mic system for professional applications. Operating in the 800 MHz band range, they are barely affected by external noise and interference. They incorporate a PLL (Phase Locked Loop) synthesized control system that makes it easy to choose from up to 282 operating frequencies, and with the use of Sony's pre-programmed channel plan, it is simple to choose the correct operating frequencies for simultaneous multi-channel operation. Additional features, like space diversity reception, LCD indicators, reliable and sophisticated circuit technology ensure low noise, wide dynamic range, and extremely stable signal transmission and reception. Ideal for broadcasting stations, film production facilities, and ENG work.



PROFESSIONAL VIDEO TAPES



Professional Grade VHS		
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FUJINON ENG LENSES

While ENG camera technology evolves faster and faster, delivering ever higher performance in ever small bodies, it has been increasingly difficult for lens manufacturers to improve quality while keeping size and weight to a minimum until recently. With Aspheric Technology (AT2) Fujinon has succeeded in manufacturing superior quality lenses that are both smaller and lighter than lenses of conventional spherical design. From the widest angle to the highest telephoto, Fujinon's broadcast hand-held style lenses offer unparalleled features and performance. In fact, they are so advanced and so optically superb they will reshape your thinking about how well a lens can perform.



Fujinon's broadcast hand-held lenses feature the very latest in optical and mechanical design, and manufacturing techniques. New EBC (Electron Beam Coating) reduces flare and improves contrast, while AT2 Aspheric Technology improves corner resolution and reduces chromatic aberration. And all except the 36:1 Super Telephoto offer the exclusive "V-Grip" and Quick Zoom.

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CHYRON PC-CODI & PC Scribe

Text and Graphics Generator and Video Titling Software

PC-CODI incorporates a broadcast quality encoder and a wide bandwidth linear keyer for the highest quality, realtime video character generation and graphics display. A video graphics software engine running under Windows 95/NT. PC Scribe offers a new approach and cost effective solution for composing titles and graphics that is ideal for video production and display applications. Combined, their a total solution for realtime character generation with the quality you expect from Chyron.

PC-CODI Hardware:

- Fully-antialiased displays • Display and non-display buffers
- Less than 10 nanosecond effective pixel resolution
- 16.7 million color selections • Fast, realtime operations
- Character, Logo and PCX Image transparency
- Variable edges: border, drop shadow and offset
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- User definable intercharacter spacing (squeeze & expand)
- Multiple roll/crawl speeds • Automatic character kerning
- User definable tab/template fields
- Shaded backgrounds of variable sizes and transparency
- Software controlled video timing



- User definable read effects playback: wipes, pushes, fades
- NTSC or PAL sync generator with genlock
- Board addressability for multi-channel applications
- Auto display sequencing • Local message/page memory
- Preview output with safe-title/cursor/menu overlay
- Composite and S-video input with auto-genlock select

PC-Scribe Software:

- Number of fonts is virtually unlimited. Also supports most international language character sets. Fonts load instantly and the level of anti-aliasing applied is selectable.
- Adjust a wide range of character attributes. Wide choice of composition tools.
- Characters, words, rows and fields can color flash
- Character rolls, crawls and reveal modes. Speed is selectable and can be auto timed with pauses. Messages can be manually advanced or put into sequences along with page transitions.
- Multiple preview windows can be displayed simultaneously.
- Transitions effects include: cut, fade, push, wipe, reveal, peel, zoom, matrix, wipe, spiral, split, weave and jitter.
- Import elements to build graphics. This includes OLE objects, INFINIT, RGB and TGA with alpha channel. Scribe also imports and exports TIFF, JPEG, PCX, TGA, BMP, GIF, CLP, ASCII, IMG, SGI, PICT and EPS formats.

PC-CODI and PC-Scribe Bundle2995.00

TRUEVISION/Avid

Professional Video Production Workstation

Incorporating the award-winning TARGA 1000 video card and Avid MCXpress NT non-linear editing software, this fully-configured workstation meets the needs of production professionals, corporate communicators, educators and Internet authors

TARGA 1000 Features:

The TARGA 1000 delivers high processing speed for video and audio effects, titling and compositing. Capture, edit and playback full-motion, full-resolution 60 fields per second digital video with fully synchronized CD-quality audio.

- Compression can be adjusted on the fly to optimize for image quality and/or minimum storage space. Has composite and S-video inputs/outputs. Also available with component input/output (TARGA 1000 PRO).
- Genlock using separate sync input for working in professional video suites
- Audio is digitized at 44.1KHz or 48KHz sampling rates, for professional quality stereo sound. Delivers perfectly synchronized audio and video.

MCXpress Features:

The ideal tool for video and multimedia producers who require predictable project throughput and high-quality results when creating video and digital media for training, promotional/marketing material, local television and cable commercials, CD-ROM and Internet/intranet distribution. Based on Avid's industry-leading technology, it combines a robust editing functionality with a streamlined interface. Offers integration with third-party Windows applications, professional editing features, powerful media management, title tool and a plug-in effects architecture. It also features multiple output options including so you save time and money by reusing media assets across a range of video and multimedia projects.

TARGA 1000/MCXpress Turnkey Systems:

- 300-watt, 6-Bay full tower ATX chassis
- Pentium ATX motherboard with 512K cache
- Pentium III- 450 MHz Processor
- Matrox Millennium II AGP 4MB WRAM display card
- 128MB 10ns 168-Pin (DIMM) S-DRAM
- IBM 10GB IDE System Drive
- Seagate Barracuda External 9.1GB SCSI-3 ultra-wide capture drive
- Adaptec AHA-2940U2W Ultra Wide SCSI-3 controller card
- Teac CD-532e 32X EIDE internal CD-ROM drive • 3.5" floppy drive
- Altec-Lansing ACS-48 3-piece deluxe speaker system
- Viewsonic G771 17" (1280 x 1024) monitor (0.27mm dot pitch)
- Microsoft MS Mouse • Focus 2001A keyboard
- Avid MCXpress for Windows NT • Windows NT 4.0 operating system
- Truevision TARGA 1000 or 1000 Pro Video Capture Card

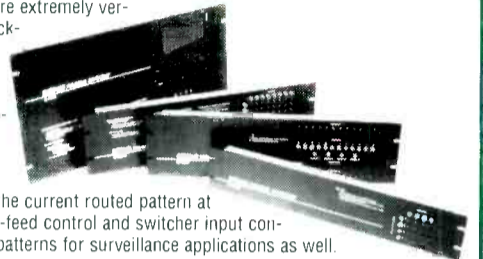
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KNOX VIDEO

RS4x4/8x8/16x16/16x8/12x2 Video/Audio Matrix Routing Switchers

Knox's family of high performance, 3-channel routing switchers are extremely versatile, easy-to-use and very affordable. Housed in an ultra-thin rack-mount chassis they accept and route (on the vertical interval) virtually any video signal, including off-the-air and non-timebase corrected video. They also route balanced or unbalanced stereo audio. The audio follows the video or you can route the audio separately (breakaway audio). Each of the switchers offers manual control via front panel operation. They can also be controlled remotely by a PC, a Knox RS Remote Controller, or by a Knox Remote Keypad via their RS-232 port. Front panel LEDs indicate the current routed pattern at all times. Knox switchers are ideal for applications such as studio-feed control and switcher input control, plus they have an internal timer allowing timed sequence of patterns for surveillance applications as well.



- Accept and routes virtually any one-volt NTSC or PAL video signal input to any or all video outputs.
- Accept and route two-volt mono or stereo unbalanced audio inputs to any or all audio outputs.
- Video and audio inputs can be routed independently, they don't need to have the same destination.
- Can store and recall preset cross-point patterns. (Not available on RS12x2.)
- Front panel key-pad operation for easy manual operation.
- Can also be controlled via RS-232 interface with optional RS Remote Controller or Remote Keypad.
- Front panel LED indicators display the present routing patterns at all times.
- An internal battery remembers and restores the current pattern in case of power failure.
- Internal vertical interval switching firmware allows on-air switching.
- Housed in a thin profile rackmount 1" chassis.
- Also except the RS12x2 are available in S-Video versions with/without audio.
- Models RS16x8 and RS16x16 are also available in RGB/component version.
- With optional Remote Video Readout, the RS16x8 and RS16x16 can display active routes on a monitor at remote locations, via a composite signal from a BNC connector on the rear panel.
- The RS4x4, RS8x8 and RS16x16 are also available with balanced stereo audio. They operate at 660 ohms and handle the full range of balanced audio up to +4 dB with professional quick-connect, self-locking, bare-wire connectors.

LEADER

Manufacturing test and measurement equipment for over 40 years, Leader Instruments is the standard which others are measured against for reliability, performance, and most important—cost effectiveness

5860C WAVEFORM MONITOR

A two-input waveform monitor, the 5860C features 1H, 1V, 2H, 2V, 1 s/div and 2V mag time bases as well as vertical amplifier response choices of flat, IRE (low pass), chroma and DIF-STEP. The latter facilitates easy checks of luminance linearity using the staircase signal. A PIX MON output jack feeds observed (A or B) signals to a picture monitor, and the unit accepts an external sync reference. Built-in calibrator and on-off control of the DC restorer is also provided.

5850C VECTORSCOPE

The ideal companion for the 5860C, the 5850C adds simultaneous side-by-side waveform and vector monitoring. Featured is an electronically-generated vector scale that precludes the need for fussy centering adjustments and eases phase adjustments from relatively long viewing distances. Provision is made for selecting the phase reference from either A or B inputs or a separate external timing reference.



5100 4-Channel Component / Composite WAVEFORM

The 5100 handles three channels of component signals, plus a fourth channel for composite signals, in mixed component / composite facilities. Features are overlaid and parade waveform displays, component vector displays, and automatic bow-tie or "shark fin" displays for timing checks. Menu-driven options select format (525/60, 625/50, and 1125/60 HDTV), full line-select, vector calibration, preset front-panel setups and more. On-screen readout of scan rates, line-select, preset numbers, trigger source, cursor time and volts.

5100D Digital Waveform/Vectorscope

The 5100D can work in component digital as well as component analog facilities (and mixed operations). It provides comprehensive waveform, vector, timing and picture monitoring capabilities. Menu driven control functions extend familiar waveform observations into highly specialized areas and include local calibration control, the ability to show or blank SAV/EAV signals in both the waveform and picture, the ability to monitor digital signals in GBR or YCbCr form, line select (with an adjustable window), memory storage of test setup; with the ability to provide on-screen labels, flexible cursor measurements, automatic 525/60 and 625/50 operation and much much more.

5870 Waveform/Vectorscope w/SCH and Line Select

A two-channel Waveform/Vector monitor, the microprocessor-run 5870 permits overlaid waveform and vector displays, as well as overlaid A and B inputs for precision amplitude and timing/phase matching. Use of decoded R-Y allows relatively high-resolution DG and DP measurements. The 5870 adds a precision SCH measurement with on-screen numerical readout of error with an analog display of SCH error over field and line times. Full-raster line select is also featured with on-screen readout of selected lines, a strobe on the PIX MON output signal to highlight the selected line, and presets for up to nine lines for routine checks.

5872A Combination Waveform/Vectorscope

All the operating advantages of the 5870, except SCH is deleted (line select retained), making it ideal for satellite work.

5864A Waveform Monitor

A two-input waveform monitor that offers full monitoring facilities for cameras, VCRs and video transmission links. The 5864A offers front panel selection of A or B inputs, the choice of 2H or 2V display with sweep magnification, and flat frequency response or the insertion of an IRE filter. In addition, a switchable gain boost of X4 magnifies setup to 30 IRE units, and a dashed graticule line at 30 units on screen facilitates easy setting of master pedestal. Intensity and focus are fixed and automatic for optimum display. Supplied with an instruction manual and DC power cable.

5854 Vectorscope

A dual channel compact vectorscope, the 5854 provides precision checkout of camera encoders and camera balance, as well as the means for precise genlock adjustments for two or more video sources. Front panel controls choose between A and B inputs for display and between A and B for decoder reference. Gain is fixed or variable, with front panel controls for gain and phase adjustments. A gain boost of 5X facilitates precise camera balance adjustments in the field. Supplied with a DC power cable.

Designed for EFP and ENG (electronic field production and electronic news gathering) operations, they feature compact size, light weight and 12 V DC power operation. Thus full monitoring facilities can be carried into the field and powered from NP-1 batteries, battery belts and vehicle power. Careful thought has been given to the reduction of operating controls to facilitate the maximum in monitoring options with the operating simplicity demanded in field work.

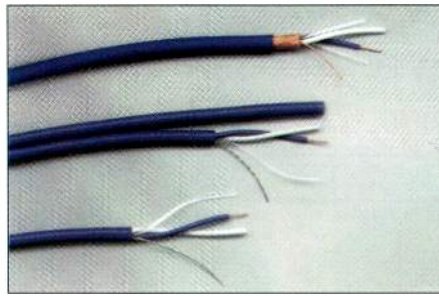
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Circle (477) on Free Info Card

Digital audio cable



9555; fax 847-795-8770; www.gepco.com

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Gepco International 5596 EZ and 5596M:

110-ohm AES/EBU digital audio cable; provides accurate transmission of all formats of AES-3 audio, including 24-bit/96kHz; features a 12.3MHz bandwidth, low attenuation and jitter, and mechanical stability; optimized for 96kHz bandwidth requirements; also ideal for extended distance runs of 44.1kHz or 48kHz formats: 800-966-0069; 847-795-

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Lectrosonics UCR210D: A synthesized UHF, diversity ENG receiver; will run four 1/2 hours on four AA batteries; tunes across 256 different frequencies in 100kHz steps; offers balanced audio output.;800-821-1121; 505-892-4501; fax: 505-892-6243; www.lectrosonics.com

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Wavetek Wandel Goltermann WWG DTS-300: portable instrument for MPEG-2/DVB and ATSC transport stream testing; helps to quickly isolate and diagnose problems in the digital broadcast multiplex; can include analysis, multiplex-simulation, capture and generation capabilities in a single instrument; features simultaneous simulation and analysis in real-time, 18GB disk drive and powerful input and output transport stream interfaces (DVB-ASI, DVB-SPI, SMPTE-310M; RF interface available as an option: 800-854-2708; 858-279-2200; fax: 858-627-0146; mpeg.wwg-solutions.com

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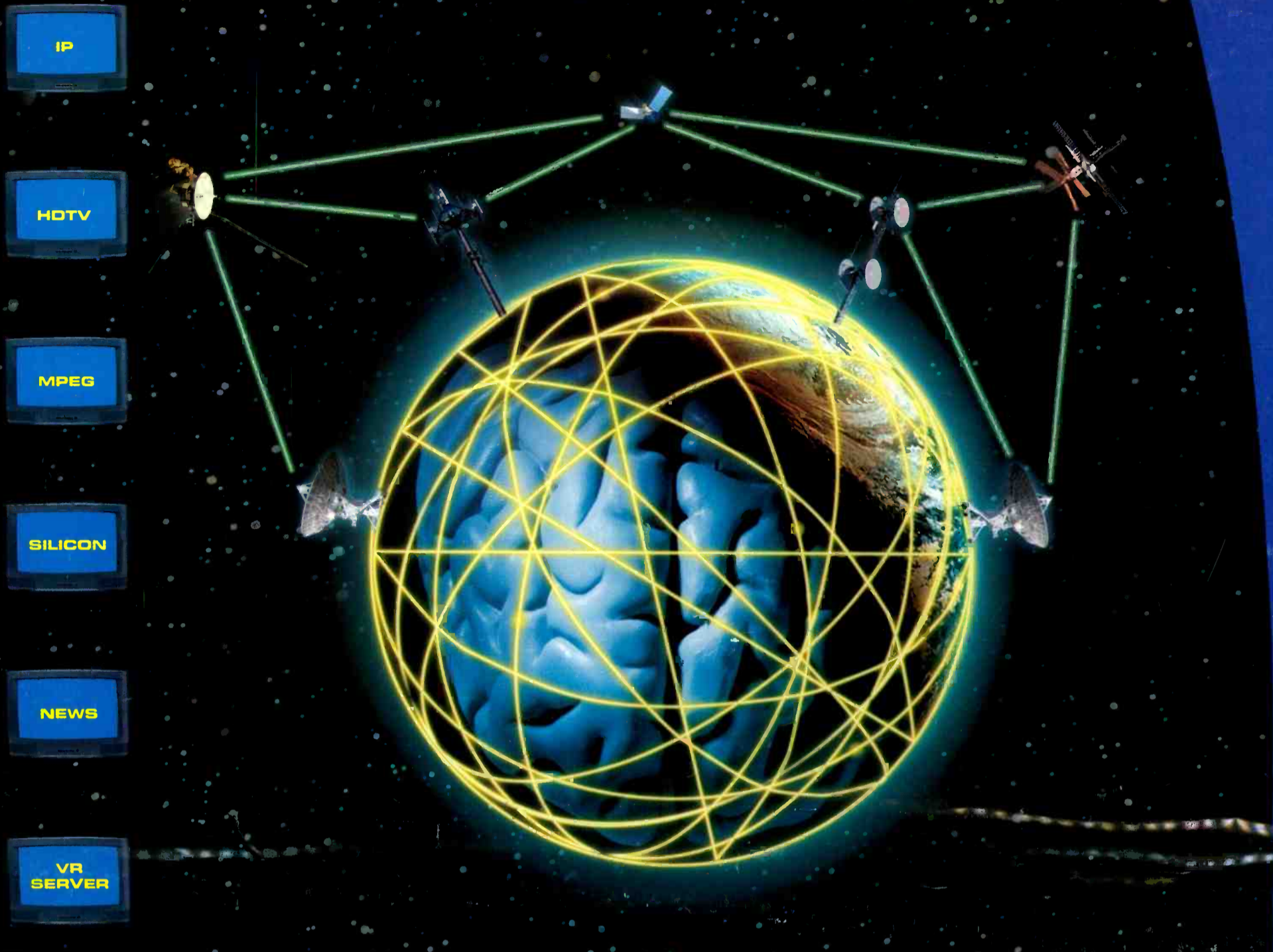
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think video, think Leitch



think IP @ Leitch

Video over IP applications are exploding. Leitch is lighting the fuse using our VR™ servers which already run on a fiber channel video storage area network and will now be IP capable for downloading videos and news to the Internet and transporting video content over wide-area networks.

think HDTV @ Leitch

Leitch has stayed the course to bring HDTV within reach of mainstream post and broadcast facilities. We have accelerated our lead by providing the industry with the most complete HDTV infrastructure solutions and expanding our already extensive range of products.

think MPEG @ Leitch

Digital is increasing the use of MPEG-2 technology and Leitch responds with MPEG-2 transport solutions with control, pre-processors, encoders and decoders, including multiplexing and de-multiplexing. Leitch has also expanded the VR MPEG-2 video server line to 4 channels and added 50 gig drives to lower overall storage costs.

think silicon @ Leitch

Leitch is applying video to silicon by taking its current technology assets and selected new video applications into silicon chips using Leitch chip design expertise. By making this silicon available to everyone, Leitch will expand the range and reach of high-quality video.

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Leitch dominates the digital newsroom with its NEWSFlash™ non-linear editor built into the VR video servers allowing each editor simultaneous access to all media. By combining edit stations with acquisition and playback channels, we build an integrated all-digital system to meet your time critical needs with streamlined newsroom workflow.

think servers @ Leitch

The Leitch VR video servers offer exceptional reliability and scalability using our VR technology. MPEG versions feature four bi-directional I/O channels in a 4RU frame and can be configurable to more than 40 channels—all with simultaneous access to the video storage area network with a capacity from 250 gigabytes to more than three terabytes.



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