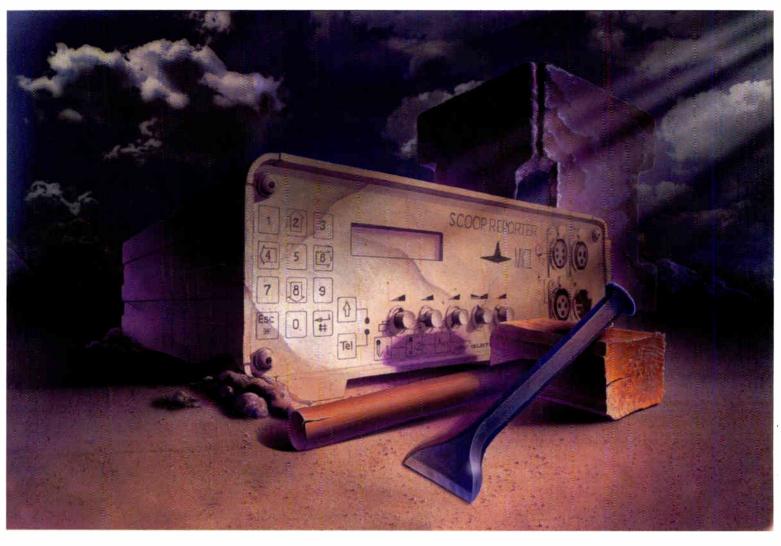
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Or perhaps you want to upgrade your station's news equipment. Are better mics available? Should you convert your inventory of cassette decks to DAT? How about MiniDisc? Yet you keep hearing that solid-state recorders are coming along.

When you need answers, start here.

This is your 1998 Remote Broadcast Sourcebook, the third of four in the *Radio World Reference Series*. Keep it handy, along with our 1998 Industry Sourcebook and RW Transmission Sourcebook.



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Radio World (ISSN: 0274-8541) is published bi-weekly by IMAS Publishing (USA), Inc., P.O. Box 1214, Falls Church, VA 22041, Phone: (703) 998-7600, Fax: (703) 998-2966. Periodicals

postage rates are paid at Falls Church VA 22046 and additional mailing offices. POSTMASTER: Send address changes to Radio World, P.O. Box 1214, Falls Church VA 22041. REPRINTS: Reprints of all articles in this issue are available. Call or write Michael Crossett, P.O. Box 1214, Falls Church, VA 22041; (703) 998-7600; Fax: (703) 998-2966. Copyright 1998 by IMAS Publishing (USA), Inc. All rights reserved.

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In these pages, we provide the names of more than 120 companies that make or sell products for collecting audio and bringing it back to your station. Those products include handheld and wireless mics, portable recorders, field mixers, digital codecs, RPU and spread-spectrum gear, and more. You'll find suppliers of promotional items, like banners, stickers, tents and vans. Mic splitters, mult boxes, PA systems, wire and cable, headphone amps, accessory bags ... they're all here.

Each listing includes the supplier address, phone and fax numbers, e-mail and Web sites, along with a brief product description. A cross-reference section and a colored "button" key help you find certain types of products more quickly.

Also in this issue, popular RW contributor Rich Rarey talks to radio news managers in San Francisco, Philadelphia, Washington and other big markets about the portable recorders they use, and why. His findings may surprise you. He also asks suppliers what new products are coming up.

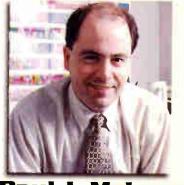
Each issue we try to make our Sourcebooks better. If your favorite supplier is missing, please let us know so that we can include them next time.

Thanks for reading Radio World.

Regards.

Paul J. McLane Editor Radio World

From the Editor



Paul J. McLane



Look for upcoming directories in the Radio World Reference Series.

December 1999 Digital Directory

> Next Spring 1999 Industry Sourcebook

Next Summer

1999 Transmission Sourcebook

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By Rich Rarey4
Product Cross Index — Company Listings by Category
Supplier Sourcebook — Alphabetical Listings

—— Radio World Reference Series ———

What Are the News Pros Using?

RW Peeks Inside the Gear Bags of News Professionals Across the Country

Rich Rarey

When a reporter grabs her equipment and rushes off to cover a story, what does she take in her equipment bag? When a journalist interviews a newsmaker, onto which medium is the sound recorded? Why do news directors and engineers choose the models they do?

On assignment for this special **Radio World** *Remote Broadcast Sourcebook*, we pondered the state of aural electronic news gathering around the United States. We contacted managers and engineers at leading news stations, networks, manufacturers and dealers, and asked them what formats are being used in the field today, and what they see coming.

We learned that ease of use and application-specific features are as important as audio quality. And while many broadcast facilities continue to rely on the familiar and proven analog cassette portables, more and more are putting the power of DAT and MiniDisc into the hands of their reporters. Big users are also beginning to look beyond traditional record/play devices, to hard-disk equipment that can also edit in the field.

Functionality

"Our reporters prefer something with less options, but reliable and familiar," according to Andy Ellis, assistant technical supervisor at San Francisco news station KCBS(AM). Of 15 KCBS reporters, one is using a MiniDisc recorder, the others use Sony's TCM-5000 analog cassette recorder.

"They love the pause control because it makes it easy for them to cue the tape and then read to their (taped) actualities when filing," Ellis said, "Plus, they can play the analog cassette everywhere, even in their car stereo."

There is not a lot of demand for improved audio quality from reporters, Ellis said, but ease of use is definitely a factor for them.

At KYW(AM) in Philadelphia, Executive Editor Mark Helms said on any given day, the news station has seven to 10 reporters in the field, all armed with analog cassette recorders. "Bottom line is, they've proven reliable, and unless it's really necessary to move up, we'll keep using them."

Paul Grundhauser, chief engineer of CBS news/talk station KMOX(AM) in St. Louis, said the TCM-5000 is the preferred

Christina Morgan, news director of Ohio State University station WOSU(AM) in Columbus, reports her station was using TCM-5000 decks for years, but when those units moved "beyond repair," the station's three reporters were issued Sony MZ-B3 MiniDisc recorders.

"The sound is so clear. We hadn't realized how much hiss the cassettes had, and we wanted a clearer sound even for our AM service." She said MD battery life



deck over their Marantz PMD-222 analog cassette machines, but their TCM-5000 decks are getting old enough to need more frequent repairs.

At least one major network has experimented with the 360 Systems Short/cut for field recording work.

"We have two people using MiniDisc, and the rest use Marantz PMD-222 or TCM-5000," he said. "We're considering MiniDisc over other media because of cost — DATs are too expensive." had been a concern, but by using the three AA batteries and rechargeable packs together, four hours of recording time could be had.

"The learning curve was easy, and the MiniDiscs were easier to use than the DATs. One reporter had been using analog cassettes for the last 20 years, and easily transitioned to the MiniDisc," Morgan said. The only problems with MD, Morgan said, occur when the MD recorder is jarred while recording. (The Sony MZ-R50 MiniDisc eliminates this problem with a 40-second "Shock Resistant Memory" buffer.)

John Blomstrand, network engineer at Minnesota Public Radio said he has similar problems with jostling a MiniDisc while recording. MPR has experimented with MiniDiscs, but primarily uses Sony D-7 and D-8 DAT recorders.

MPR has 30 DATs in the field. Blomstrand said they work well as long as See FUTURE, page 6

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Prices shown are published manufacturer's list prices as of 3/1/98

FUTURE, continued from page 4 they're not dropped.

"DAT performance runs circles around analog cassettes; far and away better, but more expensive." He tells us, "I hope the future media is more robust than DAT - 1 feel solid-state recording is the next wave."

No moving parts

Art Gauthier, engineering supervisor at ABC Radio Networks, has had some experience with solid-state recording.

"I experimented with NAGRA's ARES-C and took it to Paris for a treaty signing a few years ago," Gauthier said. "We brought it for the ISDN capability, and unfortunately didn't have much time to learn its features. I was a one-man pool producer and was given the operating manual as I was boarding the plane --- literally. The ISDN worked in only one direction, probably because we didn't have enough time to learn it."

NAGRA IV and III analog reel products are occasionally used at the network. Gauthier said ABC has 20 Marantz PMD-222 machines, six Sony Walkman Pro units and six Sony MiniDisc decks in the field.

Regarding Sony MD, he said, "They have problems operating in RF environments. In a convention hall in ¹⁹⁶, if any of the microwave base stations keyed up, you'd lose your recording." Likewise with presidential travel pool assignments; he said the recorder was not usable under the wing of Air Force One.

"With analog cassettes, with proper care, they hold up." Gauthier said. "But some people are clueless about carrying them around."

Art Rose, assistant chief at WTOP-AM-FM in Washington, also remarked on the importance of staff awareness. "The cassettes hold up depending on who uses them," Rose said. Six WTOP reporters use the Marantz PMD-222: two are using Sony MiniDisc. Rose said he has repaired many PMD-222 recorders and pointed to its audio connectors and cassette lid as frequent failure points. He also prefers simplicity in recorder design.

"For our purposes, the 222 is overly complicated, with features we don't need: the three-position rolloff, attenuator, input switch, pitch control — and our

Radio World Reference Series –

people have never even used the telco jack," he said.

Elsewhere in Washington, Danny Kawaguchi; radio broadcast technician supervisor at Voice of America, enjoys the quality of the Marantz workhorse. "My techs find the noise floor of the PMD-222 is further down than the Sony TCM-5000. and they like that."

Tape deck manufacturer Marantz is about to roll out its solid-state portable recorders.

But Sony is very much in evidence here. VOA has about 200 analog cassette recorders - Sony TCM-5000 and Walkman Pros — in use around the world, and 12 Sony MiniDisc recorders and 12 Sony D-7 DAT recorders. The PMD-222 machines, Kawaguchi said, are in use dur-

ing major remotes. "The good thing about the DATs

is the audio

is uncompressed, so it's a decent recording. We find the MiniDisc recorders are rather fragile. A lot of the correspondents would like to use MiniDisc and RDATs, but we're interested to see the Marantz digital recorder. If I had my way, we would use laptops to record audio in the field."

At National Public Radio, engineering vice president Mike Starling indicates the network is interested in a "mass conversion to MiniDisc and other random recording devices, such as the 360 Systems Short/cut." The Short/cut is a

hard-disk "personal" digital audio recorder and editor. He said NPR was issued several models for evaluation, and the reporters loved them.

and let the manufacturer know — they have saved so much time in searching and indexing recordings over DAT and cassette. Analog cassettes will remain in the field as backups." At present, approximately 160 reporter kits, containing either a Marantz PMD-222 analog recorder or a Sony D-7 or D-8 DAT machine, are in service around the world.

"Because most of our member stations are FM outlets, our listeners really can hear the difference in digital technology," Starling said.

At UPI, producer Bill Clough thinks the MiniDisc is great for its tight cueing. "There's a tiny bit of hiss that's not heard on a DAT, and with a fresh set of batteries, it'll keep recording for the length of a news conference," he said. The other five Washington-based UPI reporters, he said, use Tascam DAT recorders.

Suppliers look ahead

Whither analog? Mehdi Alister, vice president and general manager of Marantz Professional, said analog cassettes are not going away.

"The cassette technology will continue to remain a viable technology for the

foreseeable future. We recognize the digital age is here. but we will continue to support cassette technology."

In January 1999 Marantz will introduce a family of solid-state recorders, the mono PMD-680 and stereo PMD-690. Because so many users equate the name Marantz with field recording products, that rollout has garnered a lot of anticipation.

"We want to come up with a product that is comfortable for our users," Alister said. "It will have PCMCIA technology, but still has the familiar PMD look." We're told that the Marantz recorder will have similar functions to NAGRA's ARES-C recorders.

Tom Knox of NAGRA said the company's ARES-C is generating a lot of interest overseas. "The memory card size has increased and it is making longer record times possible (a 40 MB PCMCIA card can hold 40 minutes of MPEG Layer II stereo), plus we've introduced a timecode See FUTURE, page 8 🍽

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FUTURE, continued from page 6

version, useful for video and film work. Our focus is on the solid-state recorder. We're just not convinced of the reliability of hard-disk and optical media in the field; they won't have the traditional NAGRA reliability."

He admits that getting the word out on the ARES-C hasn't been easy.

"We still have a visibility problem, because we haven't used the media, but rather more word of mouth. The interest in the machine is up, and sales will follow."

About 30 recorders were delivered to Radio-1, France, where users were interested in the built-in ISDN codec of the ARES-C.

For Clayton Blick, national sales manager for Sony's Pro Audio Group, the focus is on MiniDisc and DAT. He believes MiniDisc will become as ubiquitous as the analog cassette, so you really *could* play one in your car.

"We have a MiniDisc home unit that will be out in September, with a street price under \$200, so the playback availability is increasing." Blick said Sony plans to continue to sell analog cassette products, but it has not developed a new professional cassette machine since the D5-Pro 2, about five years ago.

"The TCD-5 (analog cassette) is selling reasonably, the D-8 (DAT machine) is selling well, but sales are flat — same for the TCD-D10 Pro 2 (DAT)."

The only problem he has had with MiniDisc machines, he said, is keeping them in stock.

"The MZ-B3 is very popular, but it's been difficult to get from Japan. However, we expect to fill all orders by October," Blick said. The MZ-B3 is portable, has a built-in mic and speaker, and offers highspeed playback; retail price is \$900.

Art Reed, general manager of dealer Bradley Broadcast, concurs that the MZ-B3 model is popular, and he has backorders on file. "Right now, there doesn't seem to be any competition for Sony in the portable MiniDisc market at the price point Sony is selling," Reed said.

He likes what he sees in the pending solid-state Marantz machines, but laments that the manufacturer is not accepting orders for them yet.

"I have them on backorder for people who are interested in buying them, and I wish they were available," Reed said.

Klay Anderson of Klay Anderson Audio said seven of nine customers prefer the MiniDisc format, and many call him to thank him for introducing the technology to them.

Radio World Reference Series

"I like to 'raise the bar' with my customers, and it helps to steer some people. Two years ago I would not have recommended MiniDisc because it was not

'The cassette technology will continue to remain a viable technology for the foreseeable future.'

> Mehdi Alister Marantz Professional

mature. With Sony's current push, as well as with Denon, MiniDisc is no longer an 'outsider,'" he said. "Not to say MiniDisc won't fail down the road, but I don't know of any failures of the MiniDiscs. According to the traffic on Internet newsgroups — the strongest complainers when something breaks there have been no complaints of MiniDiscs."

Anderson said the digital changeover might take some radio people by surprise, particularly those users accustomed to working with the cassette format.

"One reporter loved MiniDisc — nothing to turn over, the clips are 'right there' — but his station manager called me and complained. 'You can hear everything: bad air conditioning, people coughing in the background — everything.'"

Rich Rarey is a SBE-certified Audio Engineer with National Public Radio.

What format do <u>you</u> prefer for field audio work? Tell us. Send your e-mail to radioworld@imaspub.com



Photo by Alan R. Peterson

WWZZ, Washington, live and direct via ISDN from a popular eatery hosts a fundraiser for breast cancer awareness.

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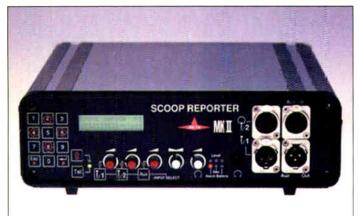
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1998 Remote Broadcast Sourcebook

Reading the Key

Look for these buttons throughout our alphabetical listings of companies that provide remote products or services.

Field Support

Field Audio Mixers

Portable Recorders

8

RPU & Spread Spectrum Systems

Promotional Products

Digital Codecs

Field Mics

The following companies offer equipment or services to help radio stations bring audio back to the station or to conduct remote broadcasts. Use the key and the colored buttons to find companies that offer particular products or services.

Companies listed responded to an inquiry from Radio World.

360 Systems

5321 Sterling Center Drive Westlake Village, CA 91361 Phone: 818-991-0360 FAX: 818-991-1360 E-mail: info@360systems.com Web site: www.360systems.com Contact: Steve Gordoni Product Description: 360 Systems offers a range of digital audio recording, storage, playback and editing equipment including Instant Replay 2.0, a Hard Disk Digital Audio Recorder/Player; DigiCart/II Plus, a Digital Audio Hard Disk Recorder; Short/cut a Self-contained Stereo **Digital Recorder and Editor.**

ABG Audio Broadcast Group Inc.

3685 Roger B. Chaffee Blvd. Grand Rapids, MI 49548 Phone: 800-999-9281 FAX: 616-452-1652 E-mail: support @abg.com Web site: www.abg.com Contact: Jack Conners

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Acoustical Solutions

3603 Mayland Court Richmond, VA 23233 Phone: 800-782-5742 FAX: 804-346-8808 E-mail:

acousticalsolutions@worldnet.att.net Web site: www.acousticalsolutions.com Contact: Terri King or Don Strahle **Product Description:** The company offers sound and noise control products including portable sound-absorbing and sound-blocking blankets. Other products include fabric-covered acoustical panels, acoustical foams, equipment enclosures and HVAC Silencers.

AEQ Broadcast International

2660 SW 87th Avenue Davie, FL 33328 Phone: 954-424-0203 FAX: 954-424-0902 E-mail: aeqamerica@aol.com Web site: www.aeq.es Contact: Gerardo Vargas Product Description: AEQ offers the

ACD-3003 full duplex/coder decoder/switch 56 and 64; TLE-02 Mixer Digital Hybrid Extender - portability - ease of operation; TH-02 EXMKI Digital Telephone Hybrid - works with one or two phone lines; MP-10 Portable Mixer 5 Inputs 2 Audio outputs - portability; PME-02 3 mic/line inputs one line input - portability.

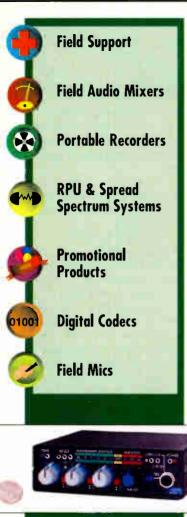
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Product Description: AKG Acoustics is a manufacturer of professional quality wired and wireless microphones and headphones. Microphone products include the D230 omnidirectional field interview microphone, C414B/TLII, C3000 and Solidtube on-air microphones, and the world's smallest dualdiaphragm lavalier microphone. Headphone products include the K240M, K240DF, K270S and K141M studio headphones. Broadcast and communication headsets include the HSD200 OC and the HSC200 SR.

Amek USA

1449 Donelson Pike Nashville, TN 37217 Phone: 615-360-0488 FAX: 615-360-0273 E-mail: ameksales-usa@harman.com Web site: www.amek.com Contact: Dave Lewty or Josh Thomas *Product Description:* Amek, a British manufacturer of high-end mixing consoles and signal processors serving live







Audio-Technica Microphones

- Radio World Reference Series -

sound, recording, broadcast and postproduction markets, is domestically distributed by Harman Pro North America, a subsidiary of Harman International.

Anthro Corp.

10450 SW Manhasset Drive Tualatin, OR 97062 Phone: 800-325-3841 FAX: 800-325-0045 E-mail: sales@anthro.com Web site: www.anthro.com **Contact: Kim Faks**

Product Description: The company offers AnthroCarts: mobile, modular, strong furniture for all your broadcasting equipment. Lots of shapes, sizes and accessories; configure them the way you want for your set-up. AnthroCarts come with a Lifetime Warranty and ship within 24 hours. Call for a free catalog or check their Web site.

ATI - Audio Technologies Inc.

328 W. Maple Avenue Horsham, PA 19044 Phone: 215-443-0330 FAX: 215-443-0394 E-mail: les@atiquys.com Web site: www.atiquys.com Contact: Samuel B. Wenzel Product Description: ATI offers both mono MX101 (new) and stereo MXS100 field mixers. They feature three lownoise Mic/Line inputs with phantom power, switchable low cut filters, limiter

and headphone cue with a slate mic and tone generator and bright 3 color

LED meter(s) feeding clean +22dBm XLR output(s) in a tiny 1.25 lb. package with rechargeable battery modules.

Audio Accessories Inc.

25 Mill Street/P.O. Box 360 Marlow, NH 03456 Phone: 603-446-3335 FAX: 603-446-7543 E-mail: audioacc@patchbays.com Web site: www.patchbays.com **Contact: Timothy J. Symonds Product Description:** The company offers audio jack panels and jacks: pre-wired audio patch panels; patch cords; patch cord holders; Polysand; video panels; RS-422 patching; Edac connectors & accessories; nickel plated patch cords.

Audio Developments Ltd.

Hall Lane, Walsall Wood, Walsall, W. Midland, England, WM **WS9 9AU** United Kingdom Phone: +44-1543 375-351



E-mail: sales@audio.co.uk Web site: www.audio.co.uk Contact: Antony Levesley Product Description:

FAX: +44-1543 361-051

Developments Ltd. manufactures a range of portable audio mixers for radio and television production. Those most suitable for radio are the AD160 Mono ENG and the AD261 Stereo ENG Mixers, and the AD245 Stereo EFP Mixer. These offer cost-effective solutions to the specific problems associated with achieving high quality sound in difficult environments.

Audio Processing Technology Ltd.

Edgewater Road Belfast, Northern Ireland BT3 9JQ **United Kingdom** Phone: +44-1232-371110 FAX: +44-1232-371137 E-mail: ewickens@aptx.com Web site: www.aptx.com **Contact: Emma Wickens**

Product Description: Audio Processing Technology Ltd. (APT) are designers of the apt-X 4:1 Digital Audio Data Compression System, the only high quality, full-bandwidth, non-psychoacoustic algorithm available. The company offers products from IC and PCB level to system level digital audio codecs to the film, music and broadcast industry to transmit high quality audio over digital circuits such as ISDN, leased line, satellite and microwave.

Audio-Technica U.S. Inc.

1221 Commerce Drive Stow, OH 44224 Phone: 330-686-2600 FAX: 330-686-0719 E-mail: pro@atus.com Web site: www.audio-technica.com Contact: Marc Lee Shannon Product Description: Audio-Technica offers a diverse range of broadcastrelated microphones. Models include: AT822 and AT825 X/Y stereo microphones for handheld or camera-mount use; AT815b and AT835b shotgun microphones with selectable battery/phantom operation; AT804 omnidirectional dynamic microphone; ATM63HE Hi-ENERGY hypercardioid

Audix Corporation

dynamic microphone.

9400 SW Barber Street Wilsonville, OR 97070 Phone: 503-682-6933 FAX: 503-682-7114 E-mail: infor@audixusa.com Web site: www.audixusa.com



Audio

September 1998

Contact: Cliff Castle

Product Description: Audix manufactures dynamic and condenser microphones for a wide variety of applications for live broadcast and field location recording.

Auralex Acoustics



8851 N. Hague Road Indianapolis, IN 46256 Phone: 317-842-2600 FAX: 317-842-2760 E-mail: auralex@auralex.com Web site: www.auralex.com Contact: Eric T. Smith

Product Description: Established in 1977, Auralex Acoustics designs and manufactures a range of acoustic treatment products for the broadcast and recording industry. Auralex Studiofoam (Class B fire rated), space-saving bass traps and diffusors, and Sheetblok sound barrier will improve the quality of your remote audio as well as stand up to the rigors of the road.

Radio World Reference Series -

Autogram Corporation

1500 Capital Avenue Plano, TX 75074 Phone: 800-327-6901 FAX: 972-423-6334 E-mail: info@autogramcorp.com Web site: www.autogramcorp.com Contact: Joseph Celiz

Product Description: The company offers a versatile, high quality, all VCA professional broadcast audio console for educational facilities, production studios, news, mini-vans. All-aluminum case with oak wood endbells, two stereo output buses, mono output, 8 slide pots, two mic pots. Inputs: 6 unbalanced, 6 balanced, cue amplifier/built in speaker, lightweight, compact 19 x 14 x 4 inches and a reasonable price.

Avocet Instruments Inc.

7795 SW Cirrus Drive Beaverton, OR 97008 Phone: 503-671-9424 FAX: 503-671-9626







The *CDelay Canceller*... is your best solution to the audio delay problem. This system identifies a voice match between the microphone and off-air return. Once matched, the delayed voice from the return is eliminated and local audio is reinserted. Now you hear it, now you don't!



Eliminate Delayed Audio Feedback

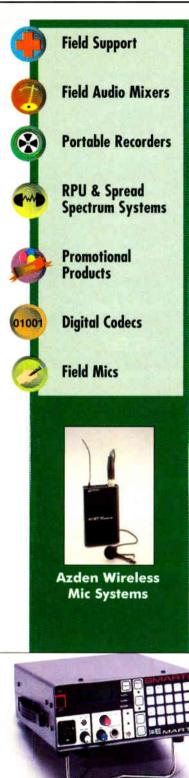
REMOTE BROADCASTS ON-AIR OPERATORS SATELLITE FEEDS ISDN FEEDS PCS FEEDS DISTANCE LEARNING

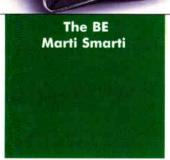


- Removes delays up to 800 msec.
- No more mix-minus
- Auto-find delay time
- Mic or line level inputs
- Latest DSP technology



Radio World 15





Radio World Reference Series

E-mail: ericl@avocetinst.com Web site: www.gvocetinst.com Contact: Eric B. Lane Product **Description:** Avocet Instruments introduces a unique new product to broadcasting: the AV-2000 Delay Canceller. The Delay Canceller permits remote talent to use the air feed as their return audio from the station, even when there is delay in the audio path. Unlike conventional "mix-minus" systems that required a dedicated return path to the remote site, the Delay Canceller is used at the remote site. This product won a Cool Stuff Award from Radio World at the NAB98 show.

Azden Corporation

147 New Hyde Park Road Franklin Square, NY 11010 Phone: 516-328-7500 FAX: 516-328-7506 E-mail: azdenus@aol.com Web site: www.azdencorp.com Contact: Wayne Alonso Product Description: UHF and VHF

wireless microphone systems for video cameras. New Product - 400UDR: 63 channel, true diversity, UHF camera mount receiver. Available with 41BT bodypack transmitter or 41HT handheld transmitter. Release date: Oct. 1998.

BARCO Communication Systems

3240 Town Point Drive Kennesaw , GA 30144 Phone: 770 590 3602 FAX : 770 590 3610 Web site: www.barco.com

Bay Country Broadcast Equipment

7117 Olivia Road Baltimore, MD 21220 Phone: 410-335-3136 FAX: 410-335-3136 E-mail: steve7117@sprynet.com Web site: home.sprynet.com/sprynet/steve7117 Contact: Steve Scarborough Product Description: Bay Country offers quality used remote broadcast equipment.

Belden Wire & Cable Company

P.O. Box 1980 Richmond, IN 47375 Phone: 765-983-5200 FAX: 765-983-5294 E-mail: info@belden.email.com Web site: www.belden.com Contact: J. Hitch **Product Description:** Belden manufactures the Brilliance line of audio and video cables — both analog and digital.

beyerdynamic Inc.

56 Central Ave. Farmingdale, NY 11735 Phone: 516-293-3200 FAX: 516-293-3288 E-mail: salesusa@beyerdynamic.com Web site: www.beyerdynamic.com Contact: Bob Lewig

Product Description: beyerdynamic manufactures a complete line of microphones and headphone products designed for remote broadcast applications. The line includes the MCE 86 series of shotgun microphones, the MCE 5, MCE 7 and the MCE 10 series of mini lavalieres, the MCE 82 in-field stereo microphone, and the line of DT 100 and DT 200 series of communication headsets. The products carry a two-year warranty against manufacturing defects.

Bradley Broadcast Sales

7313-G Grove Road Frederick, MD 21704 Phone: 800-732-7665 FAX: 301-682-8377



E-mail: info@bradleybroadcast.com Web site: www.bradleybroadcast.com Product Description: Bradley is a dealer of thousands of products from hundreds of manufacturers. Customers are radio and TV managers, engineers, freelance reporters, oral historians, government buyers, voice-over specialists, librarians, educators, churches, sound crews, archivists, cable TV engineers, studio technicians, and others whose business is in audio and broadcast. Offerings include all categories of remote equipment, including special package pricing on field recorders, mics and accessories.

Broadcast Electronics Inc./MARTI

421 MARTI Drive Cleburne, TX 76033 Phone: 817-645-9163 FAX: 817-641-3869 E-mail: bdcast@bdcast.com Web site: www.bdcast.com Contact: Steve Hannah

Product Description: From BE's MARTI line: The SMARTI codec sends/receives broadcast-quality audio over standard telephone lines. Cellcast is a remote cellular system that eliminates line-ofsight requirements, phone line access, and antenna problems. Phone Remote Mixer (RPS-402) is a 4-input mixer, with 4 headphone jacks, battery operation. TalkPort is a micro cellular remote link. The Marti line includes an extensive family of RPU transmitters, receivers and accessories.



Broadcast Equipment Sales & Engineering Inc.

Box 20331 Jackson, MS 39154 Phone: 601-857-8573 FAX: 601-857-2346 E-mail: bes@ucmail.com Web site:

www.broadcastequipment.com **Contact: Jeffrey Corkren Product Description:** The company sells all products related to remote broadcast. Also specializes in design of permanent and remote antenna systems for remotes, and repairs, refurnishes and performs frequency changes on RPU equipment.

Broadcast Richmond

1821 W. Main Street Richmond, IN 47374 Phone: 765-966-6468 FAX: 765-966-5505



E-mail: broadcast@infocom.com Web site:

www.broadcast-richmond.com **Contact: Joe Ziemer**

Product Description: Broadcast Richmond distributes and system-integrates equipment for 200 suppliers. View its Web site for information about the company, its products and system capabilities.

Broadcast Tools Inc. 4624 Monte Vista Drive



Mt. Vernon, WA 98273 Phone: 360-428-6099 FAX: 360-428-6719 E-mail: bti@broadcasttools.com Web site: www.broadcasttools.com

Broadcasters General Store Inc.

2480 SE 52nd Street Ocala, FL 34480 Phone: 352-622-7700 FAX: 352-629-7000 E-mail: bgs@mercury.net Web site: www.bgsfl.com



Product Description: Offers Modern **Cases, Pelican Protector Equipment** Cases, SKB Cases, Viking Cases, Star Case, AEQ, Big Ears, Cellcast by Marti, Henry Engineering, JK Audio, Ramsa, Spirit, Shure, Zercom, CircuitWerkes, Electro-Voice, ATI, Whirlwind and Marti.

BSW-Broadcast Supply Worldwide

7012 27th Street West Tacoma, WA 98466 Phone: 800-426-8434 FAX: 800-231-7055 E-mail: sales@bswusa.com Web site: www.bswusa.com **Product Description: BSW is a full-line**

- Radio World Reference Series -

audio equipment distributor. The company offers remote gear from BE, Telos, CCS, Comrex, JK Audio, Shure, Mackie, and much more.

Circuit Research Labs

2522 W. Geneva Drive Tempe, AZ 85282 Phone: 800-535-7648 FAX: 602-438-8227 E-mail: sales@crlsystems.com Web site: www.crlsystems.com **Contact: William L. Ammons** Product Description: Offers the DAA-50 Digital AES/EBU Audio Analyzer and Decoder, a small handheld AES/EBU digital audio analyzer. It gives the status of any of the incoming signals via a LED display, shows common digital errors. Also offers a high-quality low Z stereo audio output that can drive headphones. Available in battery or AC operation. A must for any remote that uses digital audio.

CircuitWerkes

3716 SW 3rd Place Gainesville, FL 32607 Phone: 352-335-6555 FAX: 352-380-0230 E-mail: info@circuitwerkes.com Web site: www.circuitwerkes.com Contact: Kyle Magnil **Product Description:** CircuitWerkes manufactures dial-up audio couplers, DTMF remote controls with audio passthru for remote broadcasting, DTMF decoders/controls, subaudible decoders and a battery operated mic/headphone amplifier.

Clear-Com Intercom Systems

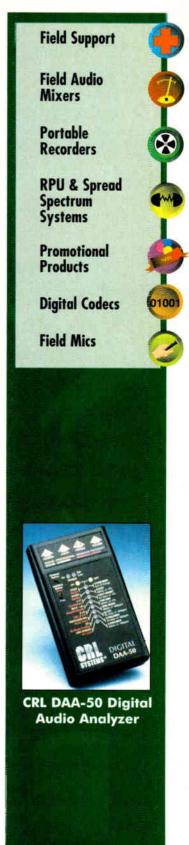
4065 Hollis Street Emeryville, CA 94608 Phone: 510-496-6666 FAX: 510-496-6699 E-mail: sales@clear-com.com Web site: www.clear-com.com **Contact: Mike Goddard**

Product Description: Since 1968, Clear-Com Intercom Systems has been a premier manufacturer of intercom communications systems for live theater, performance broadcast and aerospace applications. Professional products are offered to meet any intercommunications requirement including multi-channel party-line stations, digital matrix systems, headsets and wired and wireless beltpacks.

CMBE Inc.

P.O. Box 5233 El Dorado Hills, CA 95762 Phone: 800-801-2623 FAX: 530-676-4355











From input to output, microphones to headphones, Bradley has everything you need!



7313-G Grove Road, Frederick MD 21704 • Toll Free: 800-732-7665 Tel: 301-682-8700 • Fax: 301-682-8377 http://www.bradleybroadcast.com • E-Mail: info@bradleybroadcast.com

World Radio History

your digital future is in the cards...

Bridging the gap between digital and analog has never been easier! Bradley is pleased to introduce the new Marantz PMD680 and PMD690 compact digital recorders. Both are portable, rugged, and offer typical Marantz sound quality and versatility—making them perfect for all your critical in-the-field recording and editing needs.

Utilizing state-of-the-art Type II or III PC cards, the mono PMD680 and stereo PMD690 recorders allow easy and accurate remote recording and simple, reliable data transfer to studio computer systems equipped with standard PC card slots or parallel ports. In the field, you can record in either space-saving, high-compression MPEG format (perfect for web applications), or ultra-high fidelity PCM format. And using Marantz's built-in non-linear, non-destructive editing functions, you can perform easy on-site re-sequencing. With either unit's built-in analog and digital connections and built-in analog phone jack, you can even transfer your data over regular or ISDN telephone lines in industry-standard Broadcast .WAV file format!





No matter the application field recording for ENG, studio recording, post production editing, or web site development—the new Marantz PMD680 and PMD690 can make your job just a little bit easler. Contact your Bradley representative today for more information on these exceptional new products!



Our Service Makes The Difference 7313-G Grove Road, Frederick MD 21704 • Toll Free: 800-732-7665 Tel: 301-682-8700 • Fax: 301-682-8377 http://www.bradleybroadcast.com • E-Mail: Info@bradleybroadcast.com

Circle (15) On Reader Service Card

World Padio History





Community Professional Loudspeakers



Comtek Digital IFB



- Radio World Reference Series -

E-mail: sales@cmbe.com Web site: www.cmbe.com Contact: Al Jason **Product** Description: CMBE offers remote systems including all equipment in portable rack mounted cases. Systems ranging from simple mixer systems to portable stages are available. Engineering services such as Marti shot path analysis also is offered. Ask about Marti coverage retainer plan.

Communication Graphics

1765 N. Juniper Broken Arrow, OK 74012 Phone: 800-331-4438 FAX: 918-251-8223 **Product Description:** Communication Graphics is the world's leading designer and manufacturer of screen printed decals, designing over 1,000 logos and 10 billion decals annually.

Community Professional Loudspeakers

333 East 5th Street Chester, PA 19311 Phone: 610-876-3400 FAX: 610-874-0190 E-mail: info@community.chester.pa.us Web site: www.community.chester.pa.us Product Description: Offers weatherresistant, full-range, high-fidelity voice/music, portable PA loudspeakers. Compact all-fiberglass enclosures, Weather-Stop grilles, passive crossovers with built-in driver protection. WET228: nearfield system; two 203mm carbon fiber LF, 25mm hornloaded polyimide HF; 50-18kHz. R2 Series: fully horn-loaded systems; high-level, long range projection; two 305mm LF, 51mm mylar MF, 25mm titanium HF; 70-18kHz, 1000W.

Comrex Corporation

65 Nonset Path Acton, MA 01720 Phone: 800-237-1776 FAX: 978-635-0401 E-mail: info@comrex.com Web site: www.comrex.com **Contact: Kris Bobo**

Product Description: Comrex has been building reliable broadcast equipment for nearly four decades. Today, its specialty is remote broadcast. If you need to get high-quality audio back to the studio from a remote site, Comrex codecs for digital lines or POTS are the answer. With the new Vector POTS codec, even FM stations can utilize POTS codec technology. Vector is an RW Cool Stuff Award winner. The Comrex product line also includes the HotLine POTS codec, the Nexus ISDN codec, the Buddy remote mixer, the Mix-Minus bridge, frequency extenders, telephone couplers, and cue equipment for wireless IFB.

Comtek Inc.

357 West 2700 South Salt Lake City, UT 84115 Phone: 801-466-3463 FAX: 801-484-6906 E-mail: sales@comtek.com



Web site: www.comtek.com **Contact: Patrick Smith, Sales Director** Product Description: Comtek manufactures a line of digitally synthesized

and fixed frequency wireless communication equipment and accessories, including field and studio IFB, digital audio signal routers, cuing and prompting systems, and wireless microphones.

Connectronics Corporation

Box 198, Main Street Sparkill, NY 10976 Phone: 800-322-2537 FAX: 203-256-0440 **Contact: Richard Chilvers**

Product Description: Connectronics manufactures and distributes a wide range of specialized audio and video wire and cable products. Flexibility and economy are paramount. A large inventory ensures speedy delivery. Also available are other hardware components for data, Data-Com Communications and telephone industries.

Continental Electronics Corp.

PO. Box 270879 Dallas, TX 75227 Phone: 800-733-5011 or 214-381-7161 FAX: 214-381-3250 Web site: www.contelec.com

CreamWare US Inc.

446 Harrison Street Sumas, WA 98295 Phone: 800-899-1939 FAX: 604-435-9937 E-mail: info@creamware.com Web site: www.creamware.com **Contact: Pat Cavali**

Product Description: Take your studio on the road with CreamWare's EasyCUT for your P-133/32MB (or better) notebook using a Windows sound card. 16-Track Record and Edit of reports for late-breaking news events on location then transmit the audio immediately via ISDN or modem to home office, at a very attractive price.



Crouse Kimzey Co.

P.O. Box 155999 Fort Worth, TX 76155 Phone: 800-433-2105 FAX: 972-623-2800 E-mail: sales@proaudio.com Web site: www.proaudio.com **Contact: John Lackness**

Product Description: Crouse-Kimzey is a distributor of more than 300 lines of broadcast and professional audio equipment, covering everything from the microphone to the antenna. Lines include Denon. Tascam. Sonv. Panasonic. Marantz recorders. Also from Crouse-Kimzey: EV, Shure, Beyerdynamic, Sennheiser, AKG. Audio-Technica, CAD Equitek microphones. Shure, Mackie, Behringer, Soundcraft mixers; Marti, QEI, SKB, Whirlwind, Anchor, Benchmark and other lines. Offices in Ft. Worth, Texas; Colorado Springs, Colo.; Annapolis, Md.; and Lynn, Ind.

Crouse-Kimzey of Annapolis

P.O. Box 6300 Annapolis, MD 21401-0300 Phone: 800-955-6800 FAX: 410-754-9999 E-mail: kkannapolis@worldnet.att.net Web site: www.proaudio.com Contact: Kathleen Karas (See listing info under Crouse-Kimzey Co., above.)

Crystal Partners Inc.

321 Village Drive Carol Stream, IL 60188 Phone: 800-244-3277 FAX: 630-653-0637

E-mail: itsitvproductions@att.net Contact: Bill Russell or Dee Sellas **Product Description:** Crystal Partners offers Big Ears, a quality parabolic dish for field audio collection. The MD-1 unit combines a high-quality mic/line input stage with a transformer-isolated line drive and independent headphone amplifier. Ideal for boom, parabolic and interview mics, the MD-1 provides phantom power, local monitoring and a linelevel balanced output for noise immunity over long cable runs. The unit is housed in a rugged steel chassis designed to withstand the wear of daily professional use.

Dan Dugan Sound Design

290 Napolean Street San Francisco, CA 94124 Phone: 415-821-9776 FAX: 415-826-7699 E-mail: dan@dandugan.com Web site: www.dandugan.com



– Radio World Reference Series –

Contact: Dan

Product Description: Dan Dugan is the inventor of the automatic micro mixer. His current products make his functions available with mixing consoles. Dugan also licenses his technology to manufacturers. The company services and sells Nagra recorders, Deneche timecode gear, AEA products, Coles Microphones, Cooper mixers, StellaDAT and Sonosax.

Denon Electronics

222 New Road Parsippany, NJ 07054 Phone: 973-575-7810 FAX: 973-808-1608 Web site: www.del.denon.com Contact: Mark Kaltman Product **Description:** Electronics, a division of Denon

Corporation (USA), is a leading manufacturer of CD, MiniDisc and cassette player/recorders, as well as other electronics products, for professional audio, broadcast, DJ and consumer audio markets.

Denon

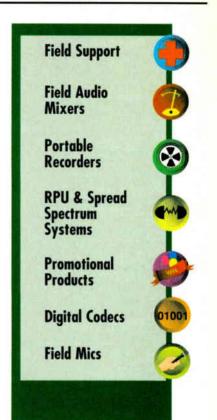
Deutsche Telekom Canada

2 First Canadian Pl., Ste 2120, Box 171 Toronto, Ontario, M5X 1C7 Canada Phone: 416-360-3902 FAX: 416-360-2910 E-mail: bill.daly@telekomus.com Web site: www.telekom.de Contact: Bill Daly

Product Description: Audio ISDN offers the best quality and value at the international level providing on-air flexibility and cost-effectiveness. The company is one of the few providers who can set up audio-ISDN connections between the Americas and Europe despite technical differences. Deutsche Telekom also has connection to all European broadcasters.

Digigram

2010 Wilson Blvd., Suite 1004 Arlington, VA 22201 Phone: 703-875-9100 FAX: 703-875-9161 E-mail: input@digigram.com Web site: www.digigram.com Contact: Neil Glassman **Product Description:** Digigram's PCXpocket is a Type II PC card for professional sound recording and editing applications on a laptop. PCXpocket features two balanced mic/line inputs and an unbalanced two-channel output that can be used at a line or headphone level. The PCXpocketAD version adds digital S/PDIF and time-code inputs.





Crystal Partners Big Ears



Dan Dugan **Automatic Mixing** Controller





Gepco 5522M Digital Audio Mic Cable



Full Compass Catalog

- Radio World Reference Series -

DPA Microphones/ TGI North America Inc. 300 Gage Ave., Suite 1

Kitchener, ON N2M 2C8 Canada Phone: 519-745-1158 FAX: 519-745-2364 Web site: www.dpamicrophones.com Contact: Mark Bertrand **Product Description:** DPA Microphones features a complete line of cardioid and omnidirectional microphones and acces-

teatures a complete line of cardioid and omnidirectional microphones and accessories for live sound and recording applications, with an emphasis on miniature microphones for theater use.

E-N-G Mobile Systems Inc.

2245 Via De Mercados Concord, CA 94520 Phone: 925-798-4060 FAX: 925-798-0152 Web site: www.e-n-g.com



Contact: Ted Kendrick **Product Description:** E-N-G's line of broadcast vans offers a faster, more efficient method of broadcasting at potential new sites. Vans are equipped with all the facilities needed for immediate field service. Standard equipment includes a full interior package, electrical system and wiring, batteries and charger, tower system and spacious work stations.

Eastern Acoustic Works (EAW)

One Main Street Whitinsville, MA 01588 Phone: 508-234-6158 FAX: 508-234-8251 E-mail: info@eaw.com Web site: www.eaw.com Contact: Harry Klane

Product Description: EAW offers more than 50 PA loudspeakers that are ideal for the sound reinforcement in a remote broadcast. Product lines range from compact loudspeakers, like the JF Series and UB Series, to medium-sized loudspeakers, like the FR Series and LA Series, to higher-end loudspeakers like the new KF400a powered loudspeaker.

Electro-Voice Inc.

600 Cecil Street Buchanan, MI 49107 Phone: 616-695-6831 FAX: 616-695-1304 Web site: www.electrovoice.com Contact: Garry Templin **Product Description:** Electro-Voice is known around the world for the durability and quality sound of its broadcast The new ENG618 microphones. Integrated Boom Pole/Shotgun Microphone expands on this legacy. Transportable as an 18-inch-long,



pouch-worn accessory, the ENG618 quickly transforms into a 6-foot boom pole with permanently mounted shotgun mic. A head phone amp and internal mic cord are included.

Energy-Onix Broadcast Equipment

1306 River Street / P.O. Box 801 Valatie, NY 12184 Phone: 518-758-1690 FAX: 518-758-1476 E-mail: energy-onix@energy-onix.com Web site: www.energy-onix.com Contact: Bernard Wise

Product Description: The new Energy-Onix Roadcaster is designed for mobile and stationary use. It features 16 channel front-panel selection; duplex operation, which permits talkback without interfering with program; 4-channel mixer on transmitter; 45 watts power output at both VHF (150-170MHz) and UHF (450-470MHz); built-in switchable limiter; full display of incident and reflected power, modulation and field strength; rugged, portable construction.

ESE

142 Sierra Street El Segundo, CA 90245 Phone: 310-322-2136 FAX: 310-322-8127 E-mail: ese@ese-web.com Web site: www.ese-web.com Contact: Randy Lundin **Product Description:** ESE offers timing equipment, Master Clock Systems, Clocks and Timers. Products are GPS based and offer a three-year warranty.

Full Compass Systems

8001 Terrace Avenue Middleton, W1 53562 Phone: 800-356-5844 FAX: 608-831-7330 E-mail: webmaster@fullcompass.com Web site: www.fullcompass.com Contact: Bob Sheffied

Product Description: For 20 years, Full Compass has been a leader in the sales and distribution of professional audio, video and broadcast equipment. The company represents more than 500 product lines, including many products suitable for field audio and remotes. Full Compass' focus is on providing professional customers with the finest service and advice, striving to create long-term business relationships.

Gepco International Inc.

2225 W. Hubbard Street Chicago, IL 60612 Phone: 800-966-0069

September 1998

FAX: 312-733-6416 E-mail: gepco@gepco.com Web site: www.gepco.com Contact: Sales Department

Product Description: Gepco is a leading manufacturer of remote cable and related products to the radio station industry. Gepco supplies a variety of cable including: single-pair, multipair, speaker, microphone and digital audio. Additionally, the company supplies connectors, patchbays, and reelers with custom products that include cable assemblies, breakout boxes and panels.

Hall Electronics

706 Rose Hill Drive Charlottesville, VA 22901 Phone: 804-984-4255 FAX: 804-984-3299 E-mail: sales@halls.com Web site: www.halls.com Contact: Robert Alexander

Product Description: Hall Electronics is a service-based broadcast supply company, offering more than 125 lines of name-brand equipment, warranteed rebuilt equipment, and a full-time inhouse service facility. Remote related equipment lines represented by Hall **Electronics include Antenex, Broadcast** Tools, Calzone Cases, CircuitWerkes, Energy-Onix, Gentner, JBL, J-K Audio, Mackie, Marantz, Musicam USA, Scala and Sine.

New Graphical Handheld EMF Readout

Holaday Industries introduces the HI-4460 Graphical Handheld EMF Readout. The HI-4460 is used with the entire line of Holaday System 4000 Broadband EMF probes.

A combination System Readout and Datalogger, the HI-4460 makes use of its large backlit LCD to display multiple numerie and graphical electromagnetic field representations. The display can show the resultant reading, individual axis readings, bar



graphs, as well as a running time plot simultaneously. It incorporates an easy to use menu system for quick setup and execution of EMF data gathering sessions, allowing either simple text configurations or complex site evaluations to be handled easily.

The HI-4460 features an RS232 PC interface for downloading software sets as well as uploading the test data to a computer. A partial list of the additional features include simultaneous axis, resultant and peak field display, running time plots of field strength figures, ability to review collected data in numeric and graphical formats, alarm and threshold setting and percent of exposure standard readings.

> Holaday Industries 14825 Martin Drive Eden Prairie, Minnesota 55344-2076 Contact: Renee Reda Telephone: 612-934-4920/FAX: 612-934-3604

Circle Reader Service 38

– Radio World Reference Series ——

Product Description: Harris has the

capability to provide complete radio

remote broadcast solutions. Within its

remote product line Harris has the

A.E.T.A. Scoop Reporter MKII POTS

codec, the Vortex MixPak for use with

the Comrex HotLine, and the Harris

Aurora for use with spread spectrum

systems. Harris has remote experts that

can provide information on the best

remote system solution to fit customer

Harris Corporation

Contact: Scott Beeler

Henry Engineering 503 Key Vista Drive

Phone: 626-355-3656

FAX: 626-355-0077

Sierra Madre, CA 91024

Contact: Hank Landsberg

news and actuality services.

Santa Monica, CA 90401

E-mail: sales@hhbusa.com

Web site: www.hhb.co.uk

Phone: 310-319-1111

Contact: Cam Wilder

FAX: 310-319-1311

Web site: www.henryeng.com

Description:

Engineering offers Mixminus Plus, a

device that creates a mix-minus audio

feed. Used for cueing a remote feed,

mix-minus audio is usually "program,

minus remote audio" so the remote site

does not hear an echo of itself. The

Mixminus Plus device can be used with

virtually any audio console or remote mixer. Also available is Audio Online, an audio-on-demand server for radio

HHB Communications USA LLC

Product Description: HHB's Portadat

professional portable DAT recorders

combine superb sound quality, rugged

reliability, excellent handling, and a full

complement of professional features,

making Portadat the industry standard

in location DAT recording. The company

offers three models in the range, devel-

oped in consultation with leading loca-

tion sound recordists to ensure

convenient operation in the field. The

Portadat is light and strong, with a wide

variety of power options. A range of

professional accessories is available.

Holaday Industries Inc.

14825 Martin Drive Eden Prairie, MN 55344

Phone: 612-934-4920

626 Santa Monica Blvd., Suite 110

needs.

Product

Broadcast Systems Division 3712 National Road West Richmond, IN 47375 Phone: 1-800-622-0022 FAX: 765-966-0623 E-mail: sbeeler@harris.com Web site: www.broadcast.harris.com

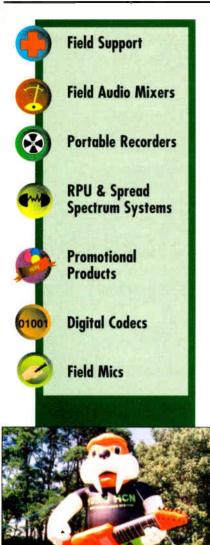




Henry

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Intraplex Inc. makes codecs, multiplexers and STLs.

- Radio World Reference Series -

FAX: 612-934-3604

E-mail: sales@holadayinc.com Web site: www.holadayinc.com Contact: Dave Baron

Product Description: Holaday provides a broad line of products and services for Electromagnetic Field detection, measurement and analysis from DC to over 40 GHz. Products include RF/Broadband Meters and Probes, Personal Protection, Area and Personal Monitors, Low Frequency Meters and Analysis Software. Training and product calibration services also are provided.

Independent Audio

43 Deerfield Road Portland, ME 04101-1805 Phone: 207-773-2424 FAX: 207-773-2422 E-mail: ia@awi.net Web site: www.independentaudio.com **Contact: Fraser Jones** Product **Description: Portable** Recorder: The Sonifex Courier portable hard disk audio recorder is a multi-purpose tool that combines a portable recorder, ISDN codec, Tel. line transfer S/W and a two-channel mixer with on-

board editing into one unit and gets your audio back base quickly using a number of flexible methods. Field Mics: Coles 4104b Commentator's Ribbon Mic was designed by the BBC to reproduce high-quality speed from noisy surroundings by canceling out a considerable degree of background noise. It is used by all major news broadcasting networks here in the United States.

Inflatable Images

2880 Interstate Parkway Brunswick, OH 44212 Phone: 330-273-3200 ext. 137 FAX: 330-273-3212 E-mail: I.freed@scherba.com **Contact: Lenny Freed Product** Description: Inflatable Images manufacturers cold air promotional inflatables ranging in size from 6 foot to 40 foot. Virtually any shape, character, or logo can be replicated as a giant inflatable. Products are powered by a quiet continuously running inflation fan that can be plugged into any standard electric outlet or generator. The company's full-range of services includes the storage and maintenance of clients' products.

Innovative Devices Inc.

#22 - 100 Kal Lake Rd. Vernon, BC V1T 9G1 Canada Phone: 800-661-2881 FAX: 250-260-2871 E-mail: sales@innovadev.com Web site: www.innovadev.com

Contact: Donna Le Pape

Product Description: The MITS from **Broadcast Telephone Systems handles** the single, multiple or consolidated environment and has the features and components to take on remote. The LS Work Surface comes with 15-line capability, in rack-mount, desk-top, or Roadshow configurations. The Roadshow gives your remote broadcast crew total control of callers.

Innovative Quality Software

4680 S. Eastern Ave., Ste D. Las Vegas, NV 89119 Phone: 702-435-9077 FAX: 702-435-9106 E-mail: info@igsoft.com Web site: www.iqsoft.com





Contact: Jeanne Quinn Product Description: IQS takes great pride in offering the absolute finest in cutting edge technology. Our products have been heavily tested and critiqued by some of the best in the audio industry. IQS offer the SAWPlus 3.3, a dedicated digital audio multitracker.

International E-Z Up Inc.

1601 Iowa Avenue Riverside, CA 92507 Phone: 800-457-4233 FAX: 800-810-8775



E-mail: pete.mcmaster@ezup.com Web site: www.ezup.com

Contact: Peter McMaster

Product Description: The World's Fastest Shelters. Light-weight, portable Instant Shelters provide protection from sun and rain, require no assembly, tools or loose parts. They come in sizes 8x8, 10x10, 10x15, 10x20. Twenty-two fabric colors and professional custom silk-screened graphics make them stunning graphics platforms for station identification.

Intraplex Inc.

3 Lyberty Way Westford, MA 01886 Phone: 877-Intraplex FAX: 978-692-2200 E-mail: sales@intraplex.com Web site: www.intraplex.com Contact: Dan Rau

Product Description: For remote broadcasts, Intraplex provides the OutBack ISDN audio codec and the 6000 IntraLink Series ISDN Multiplexers. Intraplex systems transmit program audio, data and telephone voice over one digital circuit. Intraplex manufactures digital STL transmission systems for radio and television broadcasters who require high-quality audio, system reliability and robustness.

Jampro Antennas Inc.

6340 Sky Creek Drive Sacramento, CA 95828

September 1998



Phone: 916-383-1177 FAX: 916-383-1182 E-mail: jampro@jampro.com Web site: www.jampro.com Contact: Alex M. Perchevitch Product Description: Jampro offers a line of Penetrator sidemounts ranging in power handling from 1 to 80 kW and some models allow for multiplexing. Jampro's internal-fed rototiller is designed for relative insensitivity to icing conditions. Its panel antennas are designed for multiplexing and can produce customized patterns. RF Systems offers combiners, bandpass and notch filters and other related components.

JBL Professional

8500 Balboa Blvd. Northridge, CA 91329 Phone: 818-895-3458 FAX: 818-830-7865 E-mail: dkim@harman.com Web site: www.jblpro.com **Contact: David Kim**

Product Description: JBL Professional makes some of the finest studio monitors in the broadcast industry. A leader in the broadcast industry for over 30 years, JBL's recent introduction of the new LSR Studio Monitor Line sets new standards for monitoring in broadcast. Call JBL today to find out more about LSR Monitors.

JK Audio Inc.

2701 N. 45th Road Sandwich, IL 60548 Phone: 815-786-2929 FAX: 815-786-8502 E-mail: info@jkaudio.com Web site: www.jkaudio.com **Contact: Joe Klinger**

Product Description: From big sports broadcasts to a simple telephone interview, you may know JK Audio for its feature-packed portable telephone hybrids or their rugged handset interfaces. But JK Audio offers 14 different products in all. Call for a cataloa, or request one at www.jkaudio.com.

KD Kanopy Inc.

3755 W. 69th Place Westminster, CO 80030 Phone: 800-432-4435 FAX: 303-650-5093 E-mail: askme@kdkanopy.com Web site: www.kdkanopy.com **Contact: Diana Agnew**

Product Description: Offers quick setup canopies/tents that cover from 64 sq. ft. to 800 sq. ft. and are raised in minutes by two people. Tops are fire retardant, water resistant and available in an array of colors. Customized graphics and accessories are available. Sizes: 8 x 8, 10 x 10 and 10 x 20 feet. Great for remotes, street fairs, carni-

- Radio World Reference Series -

vals etc. Brand names include D Majestic, KD StarShade, KD StarStage and KD BannerPole.

L & S Hochtrequenztechnik Gmbh

IM Gewerbegebiet 31 Lichtenau, Germany 77839 Phone: +49-7227-95350 FAX: +49-7227-8982 E-mail: sales@lsgermany.de Web site: www.lsgermany.de **Contact: Heiko Ross**

Product Description: L&S is known for its excellence and pioneering role in software for radio network planning and spectrum management.

Lectrosonics Inc.

581 Laser Road NE Rio Rancho, NM 87124 Phone: 505-892-4501 FAX: 505-892-6243 E-mail: sales@lectro.com Web site: www.lectro.com Contact: Gordon Moore

Product Description: Lectrosonics manufactures VHF and UHF wireless microphones for studio use and portable field applications. Lectrosonics provides tunable and fixed frequency wireless microphones for broadcast and film use. Wireless microphones include the new 200 series wireless microphone equipment that will tune across (256) different frequencies in 100 kHz increments.

Lightning Deterrent Corporation P.O. Box 595

Phone: 800-776-7150 FAX: 815-458-3057 E-mail: lightdet@interaccess.com Web site: www.lightningdeterrent.com Contact: Richard Tarney Product **Description:** Lightning

Deterrent Corporation is a proven lightning and static deterrent system.

Lightwave Systems Inc.

Wilmington, IL 60481

900 Jackson Street #700 Dallas, TX 75202 Phone: 800-525-3443 FAX: 214-741-5145 E-mail: hsJohnson@lightwavesys.com Web site: www.lightwavesys.com **Contact: Hamilton S. Johnson** Product Description: **Fibox products** allow short- and long-haul audio, video, data transmission over fiber optics 2-12 channel blocks on 1 fiber. Lighting isolation, no RT, EMI or other interference sonically pure from point A-B. Offers a three-year warranty and same-day turnaround on service items if needed.

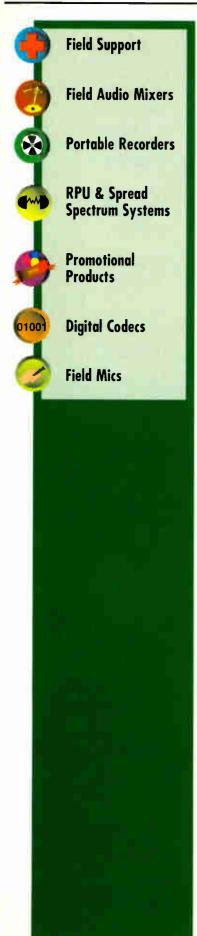
LNR Communications Inc.

70 Suffolk Court Hauppauge, NY 11788-3714









Radio World Reference Series

Phone: 516-273-7111 FAX: 516-761-5454 E-mail: mktg@lnr.com Web site: www.lnr.com **Contact: Tom Hartin**

Product Description: LNR's DAVSAT MVC-10, Mobile Voice Communication System provides a reliable voice/FAX and data satellite link from remote/rural sites to a central location. It is ideal for thin-route medium data rate applications such as disaster recovery, oil/mining camps, SNG vehicles, etc. The MVC-10 is compatible with all C and Kuband frequencies used by INTELSAT, Eutelsat and PanAmSat as well as domestic satellite systems, thus providing a high degree of flexibility in addressing specific requirements. Flyaway, truck or trailerized units are available.

Location Sound Corp.

10639 Riverside Drive North Hollywood, CA 91602 Phone: 818-980-9891 ext. 364 FAX: 818-980-9911 E-mail: sales@locationsound.com Web site: www.location.com **Contact: Steve Joachim** Product Description:Offers sales, service and rental: Fostex, HHB, Genex, PSC, Sennheiser, Audio-Technica, Spirit, Mackie, Yamaha, SKB, Porta-Brace, Kinetics, JK Audio, Peter Engh, Whirlwind, Beach-Tek and more. Serving the professional audio industry for over 20 years.

M & C Systems Inc.

2121 W. Spring Creek Pkwy, Ste. 106 Plano, TX 75023 Phone: 972-618-9571



FAX: 972-618-8645 E-mail: mark.sivertsen@mcsys.com Web site: www.mcsys.com **Contact: Mark Sivertsen**

Product Description: Presence, a Windows NT (GUI) monitor and control system, has the flexibility to control large complex stations and/or multiple small station site networks. Owners now can monitor and control all local site equipment and locations from a single remote or network control center Windows workstation. Presence has hundreds or serial drivers available, from RF devices to facilities equipment that can be accessed locally and remotely.

Mackie Designs

16220 Wood-Red Road, NE Woodinville, WA 98072 Phone: 800-898-3211 or 425-487-4333 FAX: 425-487-4337 E-mail: sales@mackie.com

Marantz Professional/ **Superscope Technologies** 1000 Corporate Blvd.





Aurora, IL 60504 Phone: 630-820-4800 FAX: 630-820-8103 Contact: Mr. Mehdi Alister

Product Description: The Marantz PMD Series of portable recorders have become standards for in-field media reporting because they provide professional performance in an extremely durable portable design. Superscope offers the PAC series of portable sound systems. All models offer a built-in amplifier (35 W/8 ohms or 50 W/4 ohms), mic mixer, audio in/out jacks, wired mic inputs, and a detachable two way loudspeaker. The PAC360 and PAC390 include built-in UHF wireless receiver(s) with true diversity reception and 32 selectable channels.

Marti Electronics Inc.

(see Broadcast Electronics)

Martin Audio Limited (TGINA)

P.O. Box 44019 Kitchener, ON N2N 3G7 Canada Phone: 519-578-0213 FAX: 519-578-1575 E-mail: info@martin-audio.com Web site: www.martin-audio.com Contact: Robert Hofkamp **Product Description:** Martin Audio manufactures a line of loudspeakers

for sound reinforcement and fixed

installations. For more information visit

the web site at www.martin-audio.com.

mediatron

Postbox 43 07 12 Munich, GERMANY 80737 Phone: +49-8131-8305-0 FAX: +49-8131-8305-25 E-mail: info@mediatron.com Web site: www.mediatron.com **Contact: Markus Stein**

Product Description: The mediatron DigiReporter is a transportable digital recording and editing workstation based on a PC notebook. DigiReporter makes it possible for the reporter outside the radio station to record via lineor microphone- inputs to hard disk, to edit and communicate with the studio. News can be transmitted fast in CDquality to the studio with modern or ISDN file transfer. The sound editing features of DigiReporter are made for the needs of the radio editor.

Merging Technologies

3340 Dundee Road, Suite 2C-3 Northbrook, IL 60062 Phone: 847-272-0500 FAX: 847-272-0597 E-mail: athacker@net56.net Web site: www.merging.com Contact: Alan Thacker Product Description: Merging Technologies offers Pyramix Virtual Studio v

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2.0A, a Windows 95/NT 4.0 Digital Audio Workstation designed for broadcast applications. The unit contains full-featured functionality for high-end audio mastering and audio post-production applications. The New Version 2 software features include support for the Merging Dua Audio Interface, 16 tracks of Hard Disk record/playback using the new PCI-based Merging Keops audio card, 16 live inputs/outputs and a new Timezone Time compression/Expansion plua-in.

Moseley



111 Castilian Drive Goleta, CA 93117 Phone: 805-968-9621 FAX: 805-685-9638 E-mail: chance@moseleysb.com Web site: www.moseleysb.com Contact: David Chancey Product Description: Moseley offers Starlink 9011SS which uses the latest in 2 x 4 GH3 Spread Spectrum Technology to allow digital stereo remotes from "line of site" locations.

MUSICAM USA

670 North Beers St., Bldg 4 Holmdel, NJ 07733 Phone: 732-739-5600 FAX: 732-739-1818 E-mail: sales@musicamusa.com Web site: www.musicamusa.com Contact: David Lin

Product Description: MUSICAM USA, a leader in the design and manufacturing of high-fidelity ISDN audio codecs, meets the transmission needs of every major radio station, TV station, voiceover talent and recording studio. The product line includes CDQPrima, RoadRunner, FieldFone II and StudioFone.

Nady Systems Inc.

6701 Shellmound Street Emeryville, CA 94608 Phone: 510-652-2411 FAX: 510-652-5075 E-mail:



ussales@corp.nadywireless.com Web site: www.nadywireless.com Contact: Mike (Red) Clayton

Product Description: The Nady WA-150/150B portable wireless public address system is a powerful and useful tool. The system includes a fullrange, three-way speaker system with built-in amplifier, mixer and highband VHF wireless receiver. The WA-150 operates on external AC or DC power only. The WA-150B also has an additional built-in rechargeable battery and charger for optional stand-alone operation without external power.

Nagra USA Inc.

240 Great Circle Rd., Suite 326 Nashville, TN 37228

- Radio World Reference Series —————

Phone: 615-726-5191 FAX: 615-726-5189 E-mail: mail@nagra.com Web site: www.nagra.com Contact: Tom Knox **Product Description:** The Nagra ARES-C portable digital recorder/editor offers a technologically advanced software-based design that eliminates all moving parts resulting in a recorder/editor completely silent in operation with low power consumption. Non-destructive digital editing on-board. Files may be transmitted from the ARES-C directly to the studio via the ISDN network. The system offers on-air, two-way "live remote" capabilities.

Neumann/USA

P.O. Box 987, 1 Enterprise Dr. Old Lyme, CT 06371 Phone: 860-434-5220 FAX: 860-434-3148 E-mail: info@neumannusa.com Web site: www.neumannusa.com Contact: Karl Winkler

Product Description: Neumann has been a leader in condenser microphones for 70 years. Today, the Neumann product line contains a wide range of microphones for use in every environment, from the record-ing studio to the field. Neumann's newest product, the TLM 103, has gained rapid acceptance as a voiceover mic for field work, especially with ISDN remote stations. The RSM 191 stereo shotgun is perfect for capturing a stereo field in MS format. The KMR 811 and KMR 821 shotgun mics are robust and provide excellent offaxis rejection.

NII Norsat International Inc.

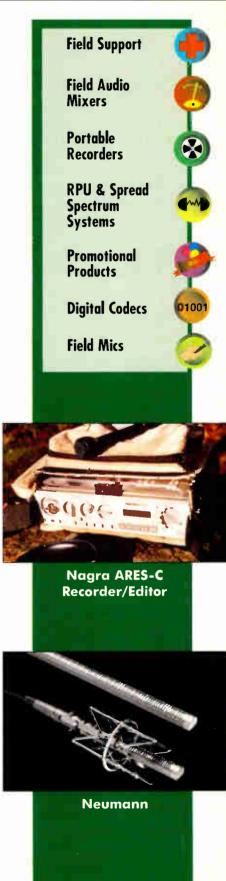
302-12886 78th Ave. Surrey, BC V3W 8E7 Canada Phone: 604-597-6203 FAX: 604-597-6214 E-mail: cmarko@norsat.com Web site: www.norsat.com **Contact: Catherine Marko** Product Description: Since the first shipment of an all GaAs FET LNA in 1983, Norsat has provided industryleading reliability combined with innovative new technology. This dedication

to the satellite industry has resulted in Norsat becoming the world's #1 commercial LNB provider with C, Ku & Ka band LNBs and block converters shopping to more than 50 countries around the world.

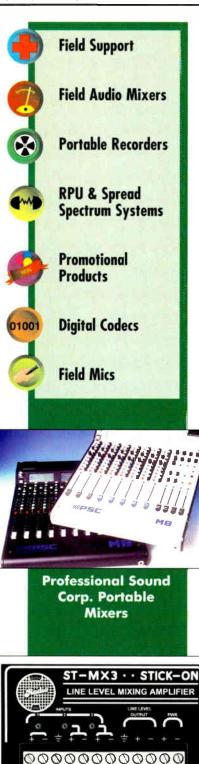
NPR Satellite Services

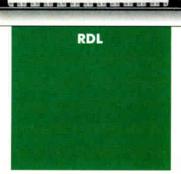
635 Massachusetts Ave., NW Washington, DC 20001-3753 Phone: 202-414-2624











- Radio World Reference Series -

FAX: 202-414-3035

E-mail: linkup@npr.org Web site: www.nprsat.org/nprss **Contact: Robert Spier Product Description: NPR Satellite** Services provides digital codecs for satellite transmission and transportable uplinking services.

Otari Corp.

378 Vintage Park Drive Foster City, CA 94404 Phone: 800-877-0577 or 650-341-5900 FAX: 650-341-7200 Web site: www.otari.com

Porta Brace/K & H Products

P.O. Box 246, Water Street, BCIC Bldg. North Bennington, VT 05257 Phone: 802-442-8171 FAX: 802-442-9118

Professional Audio Supply

5700 E. Loop 820 S. Fort Worth, TX 76119 Phone: 800-433-7668 FAX: 817-483-9952 E-mail: pas@lights-audio.com Web site: www.lights-audio.com Contact: Gary Mann



Product Description: Professional Audio Supply has been supplying audio equipment to broadcast, live sound and the recording industry for over 45 years. The company offers more than 300 product lines to choose from.

Professional Sound Corporation

24932 Avenue Kearny Unit 8 Valencia, CA 91355 Phone: 805-295-9395 FAX: 805-295-8398



Product Description: The Professional Sound Corporation's M8 Portable Audio Mixer has been designed to fulfill the demanding requirements of location sound recording. Built in a robust, contemporary and ergonomic housing, the M8 Mixer incorporates the quality and flexibility of a studio mixer with the additional features required for location mixing.

Professional Sound Services Inc.

311 West 43rd St., Suite 1100 New York, NY 10036 Phone: 212-586-1033 FAX: 212-586-0970 E-mail: jim@pro-sound.com



Web site: www.prosound.com Contact: Jim Guzzi or Dorielle Rogers **Product Description:** Professional Sound Services provides sales, service and rental to help customers achieve their goals and meet their needs in the

audio field including studio recording, ENG/EFT, location sound recording, and communications.

QEI Corporation

One Airport Drive, P.O. Box 805 Williamstown, NJ 08094 Phone: 800-334-9154 FAX: 609-629-1751 E-mail: qeisales@qei-broadcast.com Web site: www.gei-broadcast.com **Contact: Jeff Detweiler** Product Description: QEI offers Quick Link II Spread Spectrum digital transmission system for RPU and STL applications and CAT-LINK T1-based audio transport

RDL - Radio Design Labs

for STL and remote broadcast use.

P.O. Box 1286 Carpinteria, CA 93013 Phone: 805-684-5415 FAX: 805-684-9316 E-mail: sales@rdInet.com Web site: www.rdlnet.com Contact: Allen McAlister



Product Description: Now with over 125 professional audio and video modules and accessories, RDL provides you with the building blocks to create the audio and video systems you want. Rack-Up, Stick-On and TX Series products offer the highest quality performance, ultra-compact packaging and a wide variety of mounting options. Use them individually or combined into any imaginable configuration.

Redco Audio Inc.

1730 State Street Bridgeport, CT 06605 Phone: 800-572-7280 FAX: 203-384-1239 E-mail: sales@redco.com Web site: www.redco.com Dave Berliner or Bob Contact: Chappee

Product Description: Redco fabricates high quality interconnect cables, snakes, mic boxes and patch bays for the pro audio and broadcast fields. Redco fabricates custom panels, and is a master distributor for Moxami, Neutrik, G and TES series multi-pair audio cable.

RF Specialties of California

4480 Treat Blvd., #238 Concord, CA 94521 Phone: 888-737-7321 FAX: 925-687-9991



E-mail: newbro@ix.netcom.com **Contact: Bill Newbrough**

Product Description: RF Specialties can completely outfit your remote broadcast system with Will-Burt masts and Nycoil, custom cables, microphones, mixers, ISDN and POTS codecs, Lectrosonics wireless mics, headphones and all the little items to make a complete system.

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There are eight RF Specialties offices nationwide. See offices listed below and call the "Specialist" near you!

RF Specialties of California

3463 State Street, Suite 229 Santa Barbara, CA 93105 Phone: 800-346-6434 FAX: 805-682-5170 E-mail: rfsca@aol.com Contact: Sam Lane (See listing info under RF Specialties above.)

RF Specialties of Florida Inc.

33 John Sims Parkway Valparaiso, FL 32580 Phone: 800-476-8943 FAX: 850-729-2744 E-mail: rfoffl@aol.com **Contact: William Keith Hoisington** (See listing info under RF Specialties above.)

RF Specialties of Missouri

22406 NE 159th Street Kearney, MO 64060 Phone: 800-467-7373 FAX: 816-628-4508 E-mail: rfmo@skynet **Contact: John Sims** (See listing info under RF Specialties above.)

RF Specialties of Pennsylvania Inc.

795-20 Pine Valley Drive Pittsburgh, PA 15239 Phone: 724-733-1994 FAX: 724-327-9336 E-mail: rfofpa@nb.net Contact: Tom Monahan or Ed Young (See listing info under RF Specialties above.)

RF Specialties of Pennsylvania Inc.

P. O. Box 477 Southampton, PA 18966 Phone: 888-260-9298 FAX: 215-322-4585 E-mail: harrylarkin@compuserve.com **Contact: Harry Larkin** (See listing info under RF Specialties above.)

RF Specialties of Texas Inc.

P. O. Box 7630 Amarillo, TX 79114 Phone: 888-839-7373 FAX: 806-373-8036 E-mail: rfstx@compuserve.com **Contact:** Don Jones (See listing info under RF Specialties above.)

RF Specialties of Washington Inc.

19237 Aurora Avenue N.

- Radio World Reference Series —

Seattle, WA 98133 Phone: 800-735-7051 FAX: 206-546-2633 E-mail: jerryhill@compuserve.com **Contact: Jerry Hill** (See listing info under RF Specialties above.)

Richardson Electronics, Ltd.

40W267 Keslinger Road LaFox, IL 60147 Phone: 800-348-5580 FAX: 630-208-2550 E-mail: edg@rell.com Web site: www.rell.com **Contact: Becky Hilborn** Portable Recorders, Microphones, Digital Codecs, Field

Audio Mixers, Product Description: Richardson is a stocking distributor of numerous products used within field audio. Companies such as Shure, JK Audio, Fostex, Audio Technica, AKG, Sennheiser and beyerdynamics are just a few of the many manufacturers Richardson carries in inventory. Low prices and quick delivery are the Richardson

Field

Roscom Inc.

trademark.



Roscom - MidAtlantic

P.O. Box 7152 Charlottesville, VA 22906 Phone: 804-974-6635 FAX: 804-974-9942 E-mail: rick@cstone.net Contact: Rick Johnson (See listing info under Roscom Inc., above.)

Roscom - West

6301 Jackpine Drive Bellvue, CO 80512 Phone: 970-482-9254 FAX: 970-482-6123 E-mail: shideler@webaccess.net Contact: John Shideler (See listing info under Roscom Inc., above.)



Radio World 29



RF Specialties has eight offices.





Sennheiser **Wireless Mic** Systems



Shure Portable Stereo Mixers

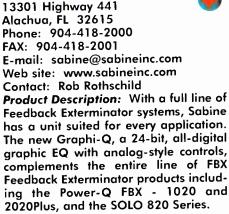
- Radio World Reference Series -

S.C.M.S. Inc.

10201 Rodney Blvd. Pineville, NC 28134 Phone: 800-438-6040 FAX: 704-889-4540 E-mail: sales@scmsinc.com Web site: www.scmsinc.com Contact: Bob Cauthen Product Description: S.C.M.S. repre-

sents every major broadcast manufacturer of remote equipment including Marti, Comrex, Zercom, Telfax, Telos and Cellcast. In addition, S.C.M.S. rents all popular remote items.

Sabine Inc.



Samson Technologies Corp.

P.O. Box 9031 Syosset, NY 11791-9031 Phone: 516-364-2244 FAX: 516-364-3888 E-mail: sales@samsontech.com Web site: www.samsontech.com Contact: Bob Caruso Product Description: Fully professional in terms of design, features and construction despite its small size, 2.75 inches H x 6.5 W x 9 D, the M4 features 2 balanced mic/line inputs and one stereo input, 3 band eq., 1 Aux Sound (Pre-Fader) for cue and monitoring;

balanced outputs; phantom powering.

Sascom/TL Audio

34 Nelson Street Oakville, ON L6L 3H6 Canada Phone: 905-469-8080 FAX: 905-469-1129 E-mail: sales@sascom.com Web site: www.sascom.com Contact: Curt Smith Product Description: Designed to meet the rigors of on-location recording, the PM1 4/2 mixer from Sascom/TL Audio

combines a superb feature list with a rugged all-metal construction. The unit features balanced inputs and outputs, phantom and "T" powering, high pass filters and phase reverse, stereo coupling of inputs, MS decoding, onboard stereo limiting and a choice of PPM or VU metering.



worldwide.



Product Description:For more than 70 years, Shure Brothers has manufactured the most rugged and reliable microphones, portable mixers, wireless systems, and audio processors for the broadcast industry. Products include the FP33, FP42, M367, M267, FP410 mixers; SM7, SM63L, VP64A, SM89, VP88 microphones; VP3 portable wireless; and a wide variety of lavalier

SoftWright LLC

microphones.

1010 South Joliet, Suite 204



September 1998

Satellite Engineering Group Inc. 6050 Connecticut, P.O. Box 33475

Kansas City, MO 64120 Phone: 800-932-1555 FAX: 816-483-5811 Web site: www.sateng.com



Contact: Grant Peterson Product Description: S.E.G. is a national equipment distributor representing the leading manufacturers of satellite, cable and broadcast products including Prodelin, Channelmaster, General

Instrument, Blondertongue, Wegener, Commscope, Cal Amp, Leaming, Norsat, NJR, Ortel, Force, Drake, Pico, Wade, Gilbert, Patriot, DH, Sadelco and more.

Sennheiser Electronic Corp.

One Enterprise Drive, P.O. Box 987 Old Lyme, CT 06371 Phone: 860-434-9190 FAX: 860-434-1759



E-mail: miclit@sennheiserusa.com Web site: www.sennheiserusa.com Product Description:Established in Wedemark, Germany, 1945 in Sennheiser is an acknowledged world leader in microphone technology, RFwireless and infrared sound transmission, headphone transducer technology and most recently in the development of active noise cancellation.

Shook Electronics USA Inc.

18975 Marbach Ln., Bldg. 200 San Antonio, TX 78266 Phone: 210-651-5700 FAX: 210-651-5220 Contact: Ron Crockett

Product Description:Manufacturers network-quality mobile trailers, production trucks and an assortment of small market vehicles designed to meet virtually any remote requirement

Shure Brothers Inc.

222 Hartrey Avenue Evanston, IL 60202 Phone: 847-866-2200 FAX: 847-866-2279 E-mail: sales@shure.com Web site: www.shure.com **Contact: Sales Department**



World Radio History

Aurora, CO 80012-3150 Phone: 303-344-5468 FAX: 303-344-2811 E-mail: sales@softwright.com Web site: www.softwright.com Contact: Curt Alway

Product Description:SoftWright develops Windows 95/NT 4.0-based Terrain Analysis Package (TAP) software used to perform evaluation of existing or proposed transmitter sites; radio coverage productions, TV and FM broadcasting, ITFS, SCADA, PCS , microwave, cellular, paging and two-way radio system design. The company has digitized maps for the entire world.

Sonifex Limited

61 Station Road Irthlingborough, Northantshire **NN9 5QE** United Kingdom Phone: +44-1933-640-700 FAX: +44-1933-650-726 E-mail: sales@sonifex.co.uk Web site: www.sonifex.co.uk

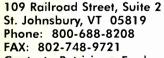
Product Description:Sonifex offers Courier, a robust and lightweight portable recorder that has been designed to make the job of recording, editing and transferring audio simple, quick and reliable. Courier records high quality digital audio to PCMCIA Hard Disk and has graphical scrub-wheel editing. By using audio files that are DOS and Windows compatible, Courier is able to load data directly onto the editing/playout system located at your studio via mobile phone, modem and ISDN communication.

Sony Electronics

1 Sony Drive Park Ridge, NJ 07645 Phone: 201-930-1000 FAX: 201-358-4907 Web site: www.sony.com/proaudio Contact: Paul Foschino

Product Description:The company offers the Freedom Series: 800 Mhz UHF synthesized wireless systems with 94 selectable UHF channels and true diversity. Single channel and six channel modular systems are available. Handheld and bodypack for vocals, speech or guitar also are offered.

Sound America Inc.



Contact: Patricia or Fred or Billie **Product Description:**The company's TAC+ Audio Telephone Interface connects audio input to and output from a phone line with continuous monitoring

Radio World Reference Series ——

and mic mute which works on single or multi line systems. The R/SVP Telephone, Classic 2500 series touchtone phone, interfaces mixer/cassette audio to and from a phone line with electronic handset mic mix or mute.

Soundcraft USA

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1449 Donelson Pike Nashville, TN 37217 Phone: 615-360-0471 FAX: 615-360-0273 E-mail: soundcraft-USA@harman.com Web site: www.soundcraft.com Contact: Tom Der or Ken DeBelius Description:Soundcraft Product designs and manufactures audio mixing consoles for broadcast, recording, and live sound reinforcement applications. The model B800 generates a "clean-feed" for each input; up to 48 inputs may be specified. In addition, two mix-minus buses and 10 aux sends are standard.

Soundscape Digital

4478 Market Street, #704 Ventura, CA 93003 Phone: 805-658-7375 FAX: 805-658-6395 E-mail: us.sales@soundscape-digital.com Web site: www.soundscape-diaital.com Contact: Ken Dewar Product Description: Soundscape manufactures the SSMDDR-1 Plus Digital Audio Workstation. This is a modular 12-track recorder/editor for radio and post production.

Spirit by Soundcraft Inc.

4130 Citrus Avenue, Suite 9 Rocklin, CA 95677 Phone: 916-630-3960 FAX: 916-630-3950 E-mail: swunschel@worldnet.att.net Web site: www.spiritbysoundcraft.com Contact: Matt Robertson or Scott Wunschel

Product Description:Spirit is a British console and monitor line manufactured in the U.K. by Soundcraft and distributed in the U.S. by Spirit by Soundcraft a subsidiary of Harman Inc., International.

SSE Telecom

47823 Westinghouse Drive Fremont, CA 94539 Phone: 510-624-8366 FAX: 510-490-8501 Web site: www.sset.com **Contact: Victoria Schneider Product Description:**Headquartered in Fremont, Calif., SSE Telecom is a leading satellite earth station component and system manufacturer. To date more than 40,000 of SSEs transceivers

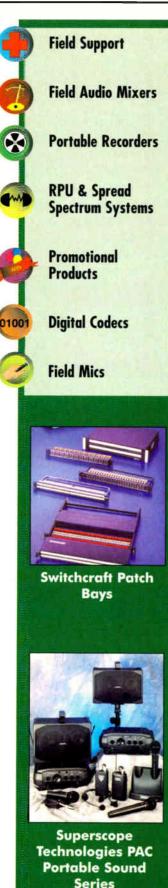






Soundcraft Folio Powerpad





– Radio World Reference Series –

or modems have been installed in satellite earth stations in more than 110 countries worldwide.

Superscope Technologies/ **Marantz Professional**

(See listing info under Marantz.)

Switchcraft Inc.

5555 N. Elston Ave. Chicago, IL 60630 Phone: 773-792-2700 FAX: 773-792-2129 Web site: www.switchcraft.com **Contact: Jim Hoffman**

Product Description: Switchcraft offers a variety of products including the industry standard QG Series of microphone connectors. Product offerings also include the widest assortment of audio patchbays with solder, EDAC, and IDC terminations. Also available is the Front Access Series that offers a slide-out tray for front of rack terminating.

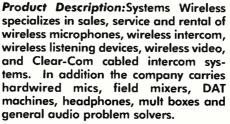
Systembase Ltd

Minchens Court, Minchens Lane, Bramley **BramleyHants RG26 5BH United Kingdom** Phone: +44 1256 882 797 FAX: +44 1256 882 797 E-mail: sales@systembase.com Web site: www.systembase.com Contact: Shima Varsani **Product Description:**The company offers the new SystemBase C400xr

Stereo ISDN Audio Codec, a fully featured and versatile codec, with an incredibly short coding delay of only 3.8ms. The unit is ideal for real-time bidirectional remote broadcast applications. The C400xr interfaces directly with the ISDN digital network to provide a high quality music circuit at either 15.6 kHz stereo or 22.5 kHz mono. Simple reconfiguration from the front panel permits the user to select one of 11 international ISDN standards, enabling worldwide operation.

Systems Wireless Ltd.

465 Herndon Parkway Herndon, VA 20170 Phone: 703-471-7887 FAX: 703-437-1107 E-mail: swl@swl.com Web site: www.swl.com Contact: William Sien



Tannoy/TGI North America Inc.

300 Gage Ave., Suite #1 Kitchener, ON N2M 2C8 Canada Phone: 519-745-1158 FAX: 519-745-2364 Web site: www.tannoy.com Contact: Marc Bertrand

Product Description:Tannoy features a line of loudspeakers featuring point source Dual Concentric and ICT technology for recording, broadcast and post applications, live sound reinforcement for theaters, houses of worship, corporate boardrooms, clubs, commercial, and surround theater installations.

TBC Consoles



design.

115 Cabot Street West Babylon, NY 11704 Phone: 516-293-4068 FAX: 516-293-4075 E-mail: eric@tbcconsoles.com Web site: www.tbcconsoles.com Contact: Eric Anderson Product Description:TBC offers custom, production, freeform and modular series broadcast consoles and equip-

ment cabinet furniture. TBS is a full ser-

manufacturer, delivery and installation.

offering

TC Electronic

company

vice

790-H Hampshire Road Westlake Village, CA 91361 Phone: 805-373-1828 FAX: 805-379-2648 E-mail: tcus@tcelectronic.com Web site: www.tcelectronic.com **Contact: Ed Simeone**

Product Description:TC Electronic manufacturers high-end audio signal processing equipment for recording, broadcast and live sound applications. The TC PB Max II is a 5 BOZ Digital **Broadcast Maximizer for transmission** processing and optimized audio for radio, TV, film and post.

TecNec

4 High Street Saugerties, NY 12477 Phone: 800-543-0909 or 914-246-0428



FAX: 800-252-5329 or 914-246-0626 E-mail: tecnec@tecnec.com Web site: www.tecnec.com **Contact: Mike Miller**

Product Description: TecNec is a premier manufacturer and distributor of professional video, audio multimedia and A/V equipment and accessories related to the broadcast industry. TecNec publishes a broadcast supply catalog for video, audio and multimedia cables, connectors and adapters including Sony, Panasonic, JVC, Hitachi, Toshiba and Ikegami camera to CCU and VTR cables, available to dealers worldwide.

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you through over 1,000 authorized MPEG audio agile data rates from 128-256 kbps. Wegener offers proven technology used by major broadcasters worldwide. Optional advanced command and control system also is offered.

9600 Aldrich Ave., S Minneapolis, MN 55420 Phone: 612-884-4051 FAX: 612-884-0043 E-mail: pro.sound@telex.com Web site: www.telex.com

Telex Communications Inc.

Telos Systems

2101 Superior Avenue Cleveland, OH 44114 Phone: 216-241-7225 FAX: 216-241-4103 E-mail: info@telos-systems.com Web site: www.telos-sytems.com Contact: John Casey

Product Description: The Telos line of ISDN audio transceivers includes the Zephyr Express, a fully portable, full-featured codec. Telos' broadcastto-telephone interface products are used by the broadcast industry worldwide. Telos Audioactive professional hardware and software encoders are used by audio professionals for transmission of both realtime and stored audio streams over the Internet.

Warner Electric

383 Middle Street Bristol, CT 06010 Phone: 860-585-4500 FAX: 860-582-3784 Web site:



www.warnernet.com/sev_main.html Contact: Ted Gladis

Product Description:The low-profile voltage regulator from Warner is ideal for mobile broadcast vehicle or studio use. The unit eliminates brownout. blackout, over and under voltage fluctuations. Also offered is the rapidly responding, 3.6 kVA, narrow range, electromechanical STABILINE Voltage Regulator Model WHR11NSD11R5U. Rated for 120 V, 50/60 Hz, single phase and less than 8-3/4 inches high, it can be used in 19-inch rack mount or standalone installations; its efficiency is 99 percent.

Wegener Communications Inc.

11350 Technology Circle Duluth, GA 30097 Phone: 770-814-4000 FAX: 770-623-0698 E-mail: info@wegener.com Web site: www.wegener.com Contact: John Scaggs

Product Description:Wegener offers satellite point-to-point or point-multipoint hardware and features small rack space profile for portability. The company offers recommendation on space segment providers and digital SCFC

Wheatstone Corp. 600 Industrial Drive New Bern, NC 28562 Phone: 252-638-7000 FAX: 252-637-1285 E-mail: e-mail@wheatstone.com Web site: www.wheatstone.com

Contact: Phil Owens Product Description: Wheatstone is a manufacturer of a range of quality audio mixing consoles, including the Audioarts line of mixers, suitable for use in specialized, remote and studio installations.



The new Whirlwind Pressmite is a compact, rugged, active press feed distribution system. The high-quality, low-noise preamp stage feeds a mic or line input to 14 transformer isolated outputs (12 mic and 2 line). The unit features a built-in headphone monitor amp, phantom power for a condenser mic source, and a three-LED headroom display. Headphone volume and input gain are adjustable via front-panel level controls, and the two 9V alkaline batteries are easily changed without opening the case.

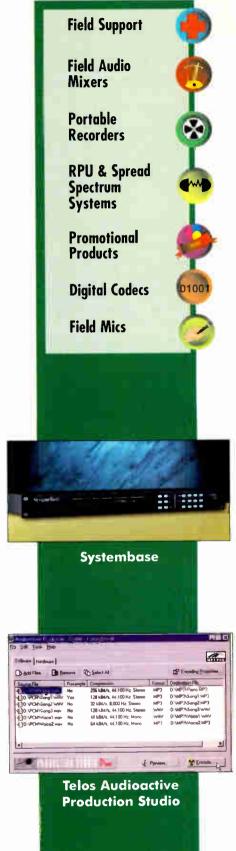
For more information contact Whirlwind's sales department toll free at 888-733-4396.

Circle Reader Service 12

Whirlwind

99 Ling Road Rochester, NY 14612 Phone: 800-733-9473 FAX: 716-865-8930 E-mail: sales@whirlwindusa.com Web site: www.whirlwindusa.com Contact: Al Keltz Product Description: Products offered by Whirlwind include the MD1, a portable mic-to-line driver with headphone monitoring of signal and/or separate line input: and PressPower and Pressmite active press multboxes PB Series passive press multboxes (line in - mics out).









Stantron

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Zero enclosures can be used in your remote vehicle.

Radio World Reference Series

Whirlwind is a complete source for audio/video cables, splitters, specialty interface devices and connectors.

Will-Burt Company

P.O. Box 900 Orrville, OH 44667 Phone: 330-682-7015 FAX: 330-634-1190 E-mail: mastlite@willburt.com Web site: www.willburt.com **Contact: Steven Pinkley** Product Description: Will-Burt offers pneumatic telescoping masts from 20 ft. to 150 ft. to support antennas for remote broadcasting. The company's D-TEC Safety Package won a Cool Stuff Award from Radio World at NAB98. Also offered is the 25 ft. manual Hurry Up mast for payloads under 20 pounds.

Winsted Corporation

10901 Hampshire Ave S Minneapolis, MN 55438 Phone: 612-944-9050 FAX: 612-944-1546 E-mail: racks@winsted.com Web site: www.winsted.com Contact: Randy Smith or Steve Hoska Product Description: The company offers 19" Rack Mount Cabinets for switchers, play and record decks, (CD and audio) and transmitters and receives.

Wohler Technologies Inc.

713 Grandview Drive South San Francisco, CA 94080 Phone: 650-589-5676 FAX: 650-589-1355 E-mail: solution@wohler.com Web site: www.wohler.com

Yamaha Corporation of America

6600 Orangethorpe Ave. Buena Park, CA 92707 Phone: 714-522-9011 FAX: 714-522-9522 E-mail: info@yamaha.com Web site: www.yamaha.com Product Description: Yamaha produces an entire line of professional audio products, including digital and analog mixers, amplifiers, processors and speakers.

Yorkville Sound Inc.

4625 Witmer Industrial Estate Niagara Falls, NY 14305 Phone: 716-297-2920 FAX: 716-297-3689 E-mail: yssales@yorkville.com Web site: yorkville.com Contact: Order Desk Product Description:Yorkville Sound, a leading Canadian pro audio manufacturer, has been designing and building quality professional mixers, amplifiers and speakers for over 35 years. Products are made with high-quality



boards, 3/4-inch plywood cabinets, drivers by RCF, B&C and eminence, current-to-light protection in crossovers and backed by Yorkville's 2year worry-free transferable warranty.

Zaxcom Inc.

140 Greenwood Ave., Bldg. #2 Midland Park, NJ 07432 Phone: 201-652-7878 FAX: 201-652-7776 E-mail: info@zaxcom.com Web site: www.zaxcom.com Contact: Lauren Nilssen



Product Description:Zaxcom offers Deva, a portable 4-channel 24-bit uncompressed hard disk recorder/player/mixer.

Zero Stantron



12224 Monatque Street Pacoima, CA 91331 Phone: 800-821-0019 FAX: 818-890-4460 Web site: www.zerocorp.com **Contact: Louis Shulman**

Product Description:Zero Stantron manufactures a wide variety of electronic enclosures, racks, cabinets, consoles and accessories designed to meet the needs of the security, audio, video and broadcast industries. The company offers welded vertical seismic, broadcast and solid-sided cabinets and sloping consoles. Zero Stantron also offers a free cabinet design software called CabCAD that allows one to easily build a cabinet system from the ground up.

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		Reader		
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For superior mixing on site, the remote mixer features

4 mic channels and 2 aux inputs, peak limiter, and squelch/ mute switching, plus a lot more. AC or battery powered for up to 10 hours.

MARTI



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Cellcast

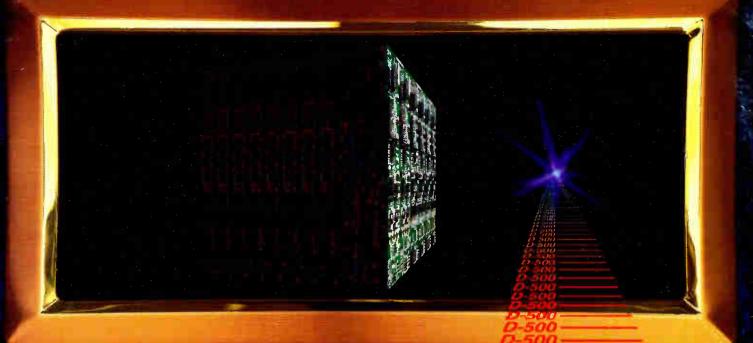
Remote Broadcast Studio

Solutions for Tomorrow's Radio

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It's just a matter of time—you're going digital anyway. Digital is cost effective, low maintenance and high performance. So why not go with a console that has it all worked out for you? The Wheatstone D-500 is the first digital console to bring you top-notch features and performance in a form totally familiar to your station. It's all set to plug in and go on-air handling both your digital and analog needs. *Make the DIGITAL move!*

The D-500 Digital Radio Console tel 252-638-7000 / fax 252-637-1285 / sales@wheatstone.com



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