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DMBK-S101 8-CHANNEL  
MIC PRE AMP BOARD



DMBK-R109 MADI  
INTERFACE BOARD

With the DMX-R100, Sony introduced perhaps the world's finest small-format digital mixer. A professional mixer that works like a pro: fast and intuitive. With a full input module that gives you a knob for every key function, so you don't get lost in menus.

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DMX-R100



[www.sony.com/proaudio](http://www.sony.com/proaudio)

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World Radio History



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The SKP 30 is a compact and rugged plug-on wireless transmitter with full 48V phantom power for use with any standard microphone.

### QP 3041

The QP 3041 is a robust 1/2 x 2-space portable rack system for mounting, powering and processing up to four EK 3041-U True Diversity receivers (not included).



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# SENNHEISER<sup>®</sup>

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## Contents

- 4 AC Power Products**  
Electrical line conditioners, surge suppressors and regulators
- 4 Acoustical Materials**  
Absorbers, diffusers, foam and isolation enclosures
- 5 Amplifiers & Preamps**  
Mono, stereo and multichannel amplifiers for studio and live sound applications. Tube and solid-state preamplification systems
- 6 Cables, Patchbays & Connectors**  
Cables, connectors, routers, patchbays and distribution products for analog/digital/video/computer interfacing
- 7 CD/DVD Duplicators/Recorders**  
Stand-alone and computer-based systems, and burners for CD and DVD recording, authoring, editing and duplication
- 8 Computer Hardware/Software**  
Applications and peripherals for audio production, digital recording, data storage, acoustical analysis and studio-management/operation applications. Software for audio production/recording, MIDI, file translation and database management of audio files
- 22 Digital Audio Workstations**  
DAWs, authoring systems, editing and mastering workstations, both stand-alone and computer-based
- 23 Digital Converters**  
Outboard AD/DA-conversion systems, format converters and sample-rate converters
- 24 Microphones (including Wireless)**  
Condenser, dynamic and ribbon microphones, and related accessories for studio, performance and live sound applications. Wireless microphone transmitters, receivers and monitoring systems
- 26 Mixing Consoles**  
Digital and analog consoles, portable mixers, controllers and related accessories for broadcast, sound reinforcement and studio applications.
- 28 Networking & Storage Products**  
Hardware and software for networking and media management
- 33 Production Music & Sound Effects Libraries**  
Music/sound effects collections
- 34 Recording Devices**  
Multitrack hardware units for recording in the studio and in the field
- 35 Signal Processing Hardware & Software**  
Outboard analog and digital processors. Software-based effects and processing.
- 41 Signal Routers & Switchers**  
Systems and stand-alone units for audio switching and signal routing
- 41 Studio Monitors**  
Studio main and reference monitors, subwoofers and surround speakers, both passive and self-powered
- 43 Sync, Control & Automation Products**  
Devices, accessories and systems for clocking, automating and controlling
- 46 Test Equipment**  
Analyzers, measurement systems, meters, calibration tools and maintenance and test gear
- 46 Other Products**  
Racks, studio furniture, headphones, printers and other gear
- 47 Advertiser Index**

# MIX

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## AC Power Products

### Furman Sound Metered Six Series

Furman's Metered Six Series of power conditioners includes three 15-amp enhanced power conditioners: the PL-PLUSD, PL-PLUSDM and PM-8DM; and three are 20-amp professional power conditioners: PL-PROD, PL-PRODM and PM-PRODM. All fit in standard 19-inch racks, and the front panels are made of black anodized aluminum. The unit's rustproof chromate steel chassis provides positive ground connection.

1997 South McDowell Blvd.

Petaluma, CA 94954

707/763-1010; fax 707/763-1310

www.furmansound.com



### SurgeX ICE

The SurgeX Inrush Current Elimination (ICE) remote-control units, the ICE 20C and 20H, offer remote soft turn-on, and fixed time sequencing will prevent the tripping of breakers by today's high-powered audio amplifiers. When daisy-chained and controlled by SurgeX's SX2120-SEQ, they will act as a sequencer for multiple amplifier applications. Both the cord-connected ICE 20C and the hardwired 20H feature advanced impedance-tolerant EMI/RFI filtering to help eliminate line noise. MSRP: \$295 for each model. NAB Booth: SL3619.

6131-B Kellers Church Rd.

Pipersville, PA 18947

215/766-1240; fax 215/766-9202

www.surgeX.com

## Acoustical Materials

### Acoustic Systems MC Isolation Booth

The MC Series isolation booths are made of interchangeable panels to allow on-site configuration and layout flexibility. The rooms can be dismantled, relocated and rearranged as different needs arise. Doors can be configured to swing in/out. Ventilation silencer can be mounted on either roof or wall, depending on space constraints. The multi-configurable booths are constructed with our standard, Type-2 4-inch-thick wall panels and provide several features, which are considered optional by other manufacturers. NAB Booth: N2256.

415 E. Saint Elmo Rd.

Austin, TX 78745

512/444-1961; fax 512/444-2282

www.acousticssystem.com

### Acoustical Components Inc.

#### Wall Box Diffuser

Acoustical box designed to control multiple frequencies without deadening a room. This product is available in a wide variety of sizes and styles to accommodate any acoustic requirement, while providing an attractive complement to a room's decor. Pricing varies, depending on fabric and choice of wood finishes.

3750 N.W. 28 St., #208

Miami, FL 33142

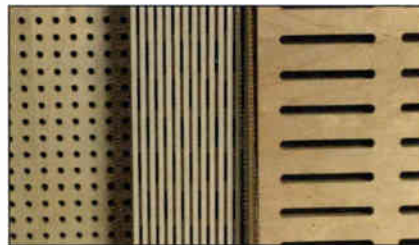
305/968-2360; fax 305/858-4048

acousticalcompon@netscape.net

## Acoustical Solutions

### AlphaResilient Isolation Clip

Achieve a high STC rating with new or existing wall, ceiling or floor construction. AlphaResilient Isolation Clips (ARSIC-1) in combination with our AudioSea Sound Barrier (AB10NR). These two (STC 60) products together will greatly improve your standard rating. The ARSIC-1 is only required on one side of an assembly.



### Acoustical Solutions WoodTrends

WoodTrends™ ceiling tiles and wall panels feature a genuine wood-plank treatment with perforations or grooves able to achieve NRC (sound absorption) ratings as high as 0.90. The system is built on an MDF or chipboard core and your choice of 24 standard wood veneer facings. NAB Booth: C543.

2852 E. Parham Rd.

Richmond, VA 23228

800/782-5742; fax 804/346-8808

www.acousticalsolutions.com

### Auralex MoPAD Monitor Isolators

MoPADs provide sonic isolation between your monitors and whatever your monitors are resting on, instantly improving the accuracy of your entire monitoring system. One set of MoPADs includes four individual pads and will isolate two monitors. MoPADs measure 12x4x2 inches. Retail is \$29.95/set.



### Auralex VersaTile

Auralex's VersaTile is a new, innovative broadband absorber with specially engineered air cavities to yield extra sonic benefits. VersaTiles are 16 inches wide by 24 inches long and have a nominal thickness of 2 inches. Offered in all 12 Auralex colors, VersaTiles are sold in boxed quantities of six or a Master-Pack of 24. Suggested retail for a box of six VersaTiles is \$99; the VersaTile MasterPack retails at \$329.

8851 Hague Rd.

Indianapolis, IN 46256

317/842-2600; fax 317/842-2760

www.auralex.com



### L.P. Swist Prefab Studio Systems

Lawrence P. Swist Designs announces its new line of prefabricated, movable studio room systems. These complete acoustical interior/furnishing packages will be available in four sizes, ranging from a high-end recording studio system, which includes an isolation booth, to a small, single-operator editing booth. The isolation enclosures for these rooms systems will be manufactured by The Industrial Acoustics Company.

Box 116

Grand Island, NY 14072

716/570-1599; fax 716/773-3421

www.lpswistdesigns.com

### VocalBooth.com

#### Platinum Series Sound Room

Our premium class of Sound Room offers greater noise reduction and the ultimate in styling and professionalism. Sound Rooms come standard with a double 3/4-inch hard wall with a 2-inch fiber fill space with optional interior and exterior coverings. Included: a three-layer subfloor system, ventilation, window and light. Our Silver and Gold Series Sound Rooms offer affordable performance for the professional studio, as well as the project and home-studio applications. Custom requests are welcome.

1631 S.E. Riviera Dr.

Bend, OR 97702

541/330-6045; fax 801/659-2475

www.vocalbooth.com



### WhisperRoom WhisperRooms

WhisperRoom manufacturers portable/modular Sound Isolation Enclosures. Nineteen sizes and two levels of isolation, standard (single wall) and enhanced (double wall), are available for immediate shipping. A standard single-wall system can be upgraded to an enhanced double-wall system by installing the appropriate Isolation Enhancement Package. All units include door window, ventilation system(s), cable passages and acoustical foam. Optional features: wall window(s), caster plate, ventilation-silencing system(s) and SoundWave Deflection System. NAB Booth: SL2657.

116 S. Sugar Hollow Rd.

Morristown, TN 37813

423/585-5827; fax 423/585-5831

www.whisperroom.com

## Amplifiers & Preamps



### ART Digital MPA

The culmination of years of research and development, Digital MPA™ mic preamplifiers offer professional features and spectacular tone. The Digital MPA also features digital connectivity for use with various digital processors and digital recording devices. 215 Tremont St. Rochester, NY 14608 585/436-2720; fax 585/436-3942 www.artproaudio.com

### Earthworks 1021

This single-channel, zero-distortion technology preamp equals wire with gain! Flat and wideband: 2 to 100k Hz, ±0.1 dB. No distortion: under 1 ppm at 10-volt RMS out. No noise: EIN is -1140 dBV @ 40 dB of gain. No whistles and bells, but no rattle and hum either. Controls include phantom on/off, polarity reverse and standby. Overload LED lights before clipping. Stepped/variable gain control feeds two separate outputs. Box 517 Wilton, NH 03086 603/654-6427; fax 603/654-6107 www.earthworksaudio.com



### Focusrite ISA 428 Pre Pack

The ISA 428 Pre Pack is the perfect multichannel front end for your Pro Tools|HD system. Featuring four classic, Rupert Neve-designed, transformer-based preamps with selectable impedance, plus eight line inputs and four direct instrument inputs, the ISA 428 also offers an optional 8-channel, 192kHz ADC preceded by an all-new proprietary Soft Limiter circuit. Retail: \$1,995. NAB Booth: SL300.

### Focusrite VoiceMaster Pro

The Platinum VoiceMaster Pro, a mono, two-rackspace device, is a revised version of the original VoiceMaster unit, and features every processor required to record vocals with precision and musicality. VoiceMaster Pro includes several new processors taken from more recent Focusrite units, as well as new features of its own; every processor is optimized for recording vocals. It also features a 24-bit/96kHz A/D option, ensuring the shortest possible digital route into your DAW. Retail: \$750. NAB Booth: SL300. Distributed by Digidesign 2001 Junipero Serra Blvd. Daly City, CA 94014 650/731-6300; fax 650/731-6399 www.digidesign.com



### Grace Design Lunatec V3

Grace Design's Lunatec V3 portable mic preamp touts the same audio performance and features of the revered Lunatec V2 preamp, while adding a high-performance 24-bit, 192kHz A/D converter section. Also included is Grace Design's ANSR analog noise-shaped dithering circuit for 16-bit media. Designed for location and studio recording, the Lunatec V3 offers excellent performance in a portable, rugged package. 2434 30th St. Boulder, CO 80301 303/443-7454; fax 303/444-4634 www.gracedesign.com

### Hot House Four Hundred High Resolution

Designed to be the ultimate amp for high-quality near-field monitoring (like our PRM165s), the two-rackspace, convection-cooled model Four Hundred is the smallest of the new generation of Hot House amps, utilizing a radical new output topology. Each individual output device is completely self-contained and self-protecting, requiring very little support circuitry in the signal path: No caps, no protection circuits, no phase shift. Specs: 0.005% THD, 105dB S/N, 125 W/channel @ 8 ohms, 200 W/channel @ 4 ohms. 275 Martin Ave. Highland, NY 12528 845/691-6077; fax 845/691-6822 www.hothousepro.com

### Lavry Engineering MSPA 1000

The patent-pending MSPA 1000 (Microphone Side Pre Amplifier) from Lavry Engineering (formerly dB Technologies) overcomes the decades-old limitations of traditional amplifiers. Unlike rackmount gear, it's practical to place the tiny (2x2.5x4.5-inch) but sturdy aluminum, die-case MSPA 1000 near the microphone. The improvements are clear, driving the balanced lines with low-source impedance/high-level signals. With 12 gain settings and switchable 48-volt phantom power, the unit provides state-of-the-art performance for all applications. 824 Post Ave. Seattle, WA 98104 206/381-5891; 206/381-5835 www.dbtechno.com



### M-Audio TAMPA

The TAMPA is a pro mic/instrument preamp unlike any other. It incorporates a new technology called "Temporal Harmonic Alignment," giving clear and warm tube tone using solid-state technology. It comes with direct digital output and world-class, dual-optical servo compression built-in. 45 E Saint Joseph St. Arcadia, CA 91007 626/445-2842; fax 626/445-7564 www.m-audio.com

### NightWing Pro NW300

Designed to offer the same awesome sound as the McCurdy AU300 but with more flexibility, the NW300 is hand-built with point-to-point wiring to guarantee faithful AU300 sound. This rackmount tube mic preamp has switchable input impedance (50, 150, 200, 600 ohms); stepped variable gain (48/53/60/64/68 dB); three-position pad; continuously variable output; switchable 48 VDC phantom power; replicated I/O transformers; no electrolytic caps in the signal path; and the same preamp circuit with 12AX7/12AU7 tubes and carbon composition resistors as the AU300. 8002 Hollywood Way Sun Valley, CA 91352 818/351-0177 www.nightwingpro.com



### QSC Audio Products PL6.0 II

Fed by QSC's PowerWave switching power-supply technology, the PowerLight 6.0 II power amplifier features superior audio performance and outstanding thermal capacity. The PL6.0 II boasts selectable clip limiters to lower distortion and to protect speakers, plus a Standby mode that enables remote AC

control. The DataPort on the amp's rear panel facilitates integration into the QSControl network audio system, as well as the inclusion of DSP products such as the DSP-4. 1665 MacArthur Blvd. Costa Mesa, CA 92626 800/854-4079; fax 714/754-6174 www.qscaudio.com



### Sage Electronics SE-Pre 1 Preamp

SE-Pre 1 mic preamp modules are available in single, dual and 8-channel configurations. Designed and hand-constructed by long-time producer Phillip Victor Bova—and his son, producer/engineer Phillip Shaw Bova—these pre's use discrete Class-A transistor circuitry and precision-matched components, hand-wired to deliver a punchy and open sound quality. Features include 48VDC switchable phantom power; gold-plated XLR balanced I/O connectors; double shielded all-steel internal and aluminum external chassis; and a high-voltage external power supply. 54 Mulvagh Ave. Ottawa, ON Canada K2E 6M6 613/228-0449; fax 613/228-8713 www.capitalnet.com/~tascman/sage.pdf

### Speck Electronics MicPre 5.0

The MicPre 5.0 is a complete, single-channel microphone preamp that offers features and flexibility for use in the most serious recording applications. Transformer and active-balanced outputs; 70 dB of preamp gain; variable highpass filter; and all input, output, and insert connectors are balanced. Retail price: \$998. 341 E. Alvarado St. Fallbrook, CO 92028 760/723-4281 www.speck.com

### Summit 2BA-221 Mic/Line Module

This combination mic preamp/direct box features variable (100-10k ohm) mic input impedance; a variable highpass filter; hi-Z and mic inputs available simultaneously with gain controls for each; separate solid-state and 12AX7A/ECC83 tube outputs; TRS insert jack; polarity switch; 20dB pad; internal high-voltage power supply; and XLR and 1/4-inch I/O. Retail: \$695. 390 Westridge Dr. Watsonville, CA 95076 831/728-1302; fax 831/728-1073 www.summitaudio.com

### TDL Technology Model 401

This mic preamp was specially designed to drive a computer sound card's line input, so the output noise needs to be very low compared to the line-in maximum signal level. However, it is useful in any application where high gain and very low noise are needed. The internal rechargeable batteries provide complete isolation from the power mains, and the cast-aluminum enclosure minimizes the pickup of unwanted interference.



## TDL Technology Stereo RIAA Preamp Model 403

This moving magnet (MM) phono preamp was specially designed to drive a computer sound card's line input to restore LP records using RIAA equalization. The preamp has very low output noise and virtually no power line hum. When used with a high-quality turntable, it will readily produce CD-quality .WAV files. The rechargeable batteries provide complete power line isolation, and the cast-aluminum case minimizes unwanted signal pickup.

5260 Cochise Trail  
Las Cruces, NM 88012  
505/382-3173; fax 505/382-8810  
www.zianet.com/tld

## TRUE Systems P2analog

The TRUE Systems P2analog is a 2-channel microphone preamp design based on the acclaimed Precision 8. Designed to offer ultimate sonic performance, the P2analog provides flexibility and special tools to help users get the best sound in critical recording or SR situations. Features include M-S decoder, premium DIs, dual gain ranges and multifrequency highpass filter. P2analog also offers a stereo phase-correlation display to assist in optimizing mic placement for stereo recording.



## TRUE Systems P2digital

TRUE Systems' P2digital 2-channel 24/96 digital mic preamp system is based on the acclaimed Precision 8 and offers ultimate sonic performance for critical recording and sound reinforcement. Features include: M-S decoder; premium DIs; dual gain ranges; highpass filters; stereo phase-correlation display for optimizing stereo mic placement; 24/20/16-bit digital outputs with sample rates to 96k; AES/EBU, S/PDIF and ADAT optical outs with multichannel digital routing; analog outs; and insert points. NAB Booth: N2103.

8175 E. Slate Ridge Dr.  
Tucson, AZ 85715  
520/721-2735; fax 520/722-4057  
www.true-systems.com

## X-Vision Audio MP-1

X-Vision's MP-1 offers the same features as the stereo all-tube MP-2 in a very affordable mono version. Classic sound at an unheard of price!

## X-Vision Audio MP-2

All-tube stereo mic preamp made in the USA, the MP-2 features no ICs in the circuit, Jensen input transformers and custom output transformers, and it's built to last with a touch of retro styling. The MP-1 and MP-2 are classics waiting to happen.

5111 Market St.  
Boardman, OH 44512  
330/259-0308; fax 330/259-0315  
www.xvisionaudio.com

## Cables, Patchbays & Connectors



## Ac-cetera RUBBER-NECK Model R-18X1

A no-creak, black gooseneck that is wired internally XLR-to-XLR and will not move out of position unless it is moved deliberately.

3120 Banksville Rd.  
Pittsburgh, PA 15232  
800/537-3491; fax 412/344-0818  
www.ac-cetera.com

## Amphenol IDC XLR Audio Connector

Offered in both line- and panel-mount versions, the IDC XLR (Insulation Displacement Connector) is a nonsolder design for quick and easy assembly while saving time, money and energy. No training in soldering is required, and it offers guaranteed consistency in termination. Available in metal or thermoplastic shell, this XLR also incorporates the "Jaws" clamp system, providing 110 pounds of retention.



## Amphenol T-Series

The T-Series is the stylish, new 1/4-inch phone plug to hit the pro audio market. Its ergonomically designed shell comes in either satin nickel or black finish, with gold or silver contacts, incorporating a version of Amphenol's unique "Jaws" cable clamp. This tried-and-tested clamping system offers superior clamping pressure to ensure reliable performance every time. Cable diameters from 3.5 to 8.5 mm can be accommodated using either the standard or large jaw clamps.

1201 Maulhardt Ave.  
Oxnard, CA 93030  
805/604-9667; fax 805/604-0707  
www.amphenol.com.au

## Clark Digital Audio Cables

Clark Wire & Cable offers AES/EBU-rated digital audio cables in both 24-gauge and 26-gauge pairs. These cables are available in bulk or as pre-assembled harnesses on reel assemblies, as audio snakes, onto stage boxes or as ADAT harnesses, or any other audio application. Additionally, Clark Wire & Cable has added full lines of networking and fiber-optics cabling products to its pre-existing audio, video and camera cable product lines. NAB Booth: C4121.

1355 Armour Blvd.  
Mundelein, IL 60060  
847/949-9944; fax 847/949-9595  
www.clarkwc.com

## First Audio USA Medusa MultiSnake

The Medusa MultiSnake is perfect for organizing instrument and vocal frontlines. We've combined our MultiDirector's four premium direct boxes with a 4-channel mic snake into a single, small stage box measuring 5.25x2.5x9.5 inches. Available in various lengths for use as a main snake for studio or live broadcast applications or as a drop-snake in larger systems. Custom options such as multipin disconnects are available.

2844 Dewey Ave.  
Rochester, NY 14616  
585/621-6270; fax 585/621-6270  
www.firstaudiousa.com

## G.E.M. Audio Services

G.E.M. Audio Services can build custom patchbays, snakes, stage boxes, etc., and ship them anywhere you need. We also carry our own line of audio interconnects from a simple mic cable to multichannel snakes. All of our single twisted-pair lines feature Canare cable; snakes feature Mogami multipair. All include Neutrik gold connectors.

476 Warren St., #3  
Brooklyn, NY 11217  
718/858-3288  
greg@gemaudio.net



## Gepco HDC120 Series

Gepco International's new HDC120 Series consists of the HDC120 and HDC120PU 12mm heavy-duty hybrid fiber cables for SMPTE 311M HD camera applications. Both cables feature an increased overall diameter, larger-gauge copper conductors, and Kevlar-reinforced and tube-jacketed single-mode fibers for added durability. NAB Booth: C244.

1770 Birchwood Ave.  
Des Plaines, IL 60018  
847/795-9555; fax 847/795-8770  
www.gepco.com

## Hannay Reels AV Series

Hannay AV Series reels are specifically designed for broadcast and pro audio applications. The reels feature welded channels for stacking that promotes maximum transport and storage efficiency. AV Series reels are constructed of rugged steel and have a nonreflective matte finish. A removable, side-mounted connector panel allows for complete customization of XLR and/or BNC connector patterns. An adjustable brake prevents cable overrun and damage operations.

## Hannay Reels AV2

The AV2 cable reel is designed for connected co-ax cable. Has a stackable frame with optional lockable casters and a non-glare black finish. Hannay builds quality reels designed and built for the audio/video industry. NAB Booth: C2313.

553 State Route 143  
Westerlo, NY 12193  
518/797-3791; fax 518/797-3259  
www.hannay.com

## Hosa FXT-401 FireWire Extender

The FXT-401 FireWire extender allows data transfer to 165 feet at 100 MP/s or 66 feet at 200 MP/s between a pair of IEEE 1394-1995, 1394-a2000-compliant interfaces. It uses 6-pin 1394 I/O and SMI jacks with proprietary FEX Series cables.

## Hosa D-sub

Hosa's new D-sub cables include the DBD Series for analog audio, HD I/O or SMPTE surround in 1.5- to 15-foot lengths; and the DES Series, wired for standard pin AES/EBU in 5- to 15-foot lengths. NAB Booth: SL645.

6920 Hermosa Circle  
Buena Park, CA 90620-1151  
714/736-9270; fax 714/522-4540  
www.hosatech.com

## Isotrack Isopatch Patchbay

The Isopatch Bantam PRO Series patchbay has a 1U panel/chassis assembly made of steel with two rows of 48 bantam jacks spaced as stereo pairs. All connectors are mounted on two horizontal PCBs that eliminate internal wiring and



provide extra rigidity. A slide-in designation strip above each row allows for easy socket identification. Front jacks have solid palladium crosspoint switch contacts and are enclosed to prevent airborne contaminants from shortening the contact life. The Isopatch design offers half or full normalizing on every channel. Retail: \$626. NAB Booth: N3201.

Distributed by Independent Audio,  
43 Deerfield Rd.  
Portland, ME 04101  
207/773-2424; fax 207/773-2422  
www.independentaudio.com

### Kable Keepers WrapAll

Kable Keepers Wrap-All Velcro™ cable-management products are a single-piece, reusable design in three sizes that are pre-punched for installing into racks and studio furniture. Multiple colors, with custom colors on a special-order basis. Available in bulk rolls (675 pieces) or table top/wallmount dispenser (450 pieces) and smaller quantities.

7911 Kimbro Lane  
Orlando, FL 32818  
888/656-0080; fax 407/522-3859  
www.kablekeepers.com

### Mody Company Silver Lo-Z Install Cable

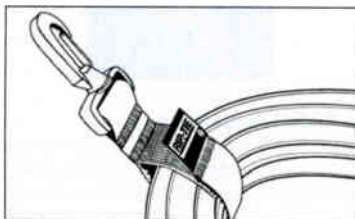
Lo-Z balanced silver install cable, CL2/CL3-rated, UL-approved. Twenty-two AWG silver-plated copper conductors. 100% silver-plated aluminum polyester tape with drain. Available in any length or 1,000 pull box spools.

12 Northrop Ave.  
Norwich, NY 13815  
888/828-6639; fax 607/336-6232  
www.gigcables.com

### Pacific Radio Electronics TDIF Cables

Pacific Radio's No Shorts custom cable division nows builds TDIF as well as S/PDIF cables, harnesses and all custom cable needs. It is part of Pacific Radio, a stocking distributor for many products used by the audio/video/broadcast and post-production industry. With locations in Los Angeles, Burbank, Las Vegas and San Leandro, Calif., we can help with your cable, connectors, racks, adapters, patch cords and hand tool needs. NAB Booth: SU6407.

969 N. La Brea Ave.  
Los Angeles, CA 90038  
323/969-2035; fax 323/969-2053  
noshorts@pacrad.com  
www.pacrad.com



### Rip-Tie CableCarrier

The CableCarrier is designed to attach to a tool belt or other structure, and will hold a cable bundle for a quick switch-out on a production stage or suspend a temporary cable run. It is available in 6- and 9-inch lengths, and comes with either a nylon swivelhook or a metal carabiner. Like all original Rip-Tie products, the CableCarrier is sewn with best-quality hook and loop and features the Rip-Tie pull tab for easy use.

883 San Leandro Blvd.  
San Leandro, CA 94577  
510/577-0200; fax 510/553-0160  
www.riptie.com

### Switchcraft Digital Audio Cat 5 Patchbay

Digital audio patchbay incorporating bantam jacks in the front to RJ45/Cat.5E terminations in the rear. Allows the end-user to hook up digital audio directly via RJ45/Cat. 5E connectors.

### Switchcraft EZ Norm Audio Patchbay

New audio patchbay that allows the end-user to switch normals from the front of the patchbay using a standard screw-driver. Available with your choice of back panels, including solder terms, wire wrap, 3-pin, EDAC/Cannon DL or our own PPT punchblocks. 1RU, 1.5RU and 2RU heights. Other options include a front access-style, slide-out tray version. NAB Booth: C750.

5555 N. Elston Ave.  
Chicago, IL 60630  
773/792-2700; fax 773/792-2129  
www.switchcraft.com



### Zaolla 75W BNC and S/PDIF Cables

Zaolla cables offer superior digital transfer with less jitter at faster rates and longer S/PDIF runs than OFC copper. The 75W Series ZWDC (BNC) and DCR (S/PDIF) are built using solid-silver (Ag) conductor, FPE foam, OFC shield, silver-plated braided copper, PTFE tape and dual layers of high-flex matte jacketing.

### Zaolla 110W ZAES AES Cable

Zaolla offers superior digital transfer with less jitter at faster rates and longer AES runs than OFC copper. The 110W ZAES (AES) uses paired silver conductors, PE dielectrics, PTFE tape, solid silver-braided shield and dual layers of matte jacketing. NAB Booth: SL645.

Distributed by Hosa Technology  
6920 Hermosa Circle  
Buena Park, CA 90620  
714/736-9270; fax 714/522-4540  
www.hosatech.com

## CD/DVD Duplicators/Recorders

### all4DVD FireWire DVD-RW Recorder

Stackable design; records personal or professional movies to DVD; Oxford 911 chipset; records a full-length 4.7 GB in about 15 minutes. FireWire connectivity for Plus and Play while the computer is on. Compatible with a large number of DVD-R/RW, CD-R/RW media. Price: \$399. Software-bundled version also available.



### all4DVD DVD/CD Duplicator

Starting from \$1,499, features Pioneer's next-generation A-05/105 drives with faster, improved 4x DVD-recording speed to meet individual production requirements. Duplicators are available with from three to seven target drives. An intuitive, menu-driven display and two-button control interface provide

simple, one-touch operation for the novice user, and give access to advanced features for the professional. Master/slave systems are 1:3 (\$1,499), 1:5 (\$2,399) and 1:7 (\$2,999).

15 Whatney  
Irvine, CA 92618  
949/215-0111; fax 949/215-0113  
www.all4DVD.com

### Disc Makers EliteMicro

Disc Makers' EliteMicro offers affordable, automated CD/DVD duplication. The easy-to-use Padus DiscJuggler application makes duplicating any CD or DVD format a snap, and the unit's small footprint will allow the system to fit comfortably in any office environment. If your duplication jobs also require unattended on-disc printing, the EliteMicro can be upgraded to the Autograph IV 1200 dpi inkjet printer, or it can connect to any Primera ink jet printer.

### Disc Makers ElitePro4

The ElitePro4 is an automated CD/DVD duplication system capable of duplicating and printing at least 38 CD-Rs or 16 DVD-Rs per hour. The system is available with three printer options and three drive configurations, so you can get the system that's perfect for you. The ElitePro4 is the only duplication system available with a built-in Intel-based PC, including a monitor, keyboard and mouse. The included Padus DiscJuggler software simplifies data, audio, video and DVD duplication. NAB Booth: SU6626.

7905 N. Route 130  
Pennsauken, NJ 08110  
856/663-9030; fax 856/661-3458  
www.discmakers.com



### HHB CDR 830 BurnIT PLUS

The BurnIT PLUS features balanced XLR analog inputs and outputs with line/mic input gain switching, balanced AES/EBCU-compatible XLR digital input/output, wordclock input and parallel remote input. Like the CDR 830, the 830 PLUS features digital record gain and balance control, precision 24-bit converters, RCA analog I/O, coaxial and optical S/PDIF digital I/Os, and CD-Text as standard. An onboard sample-rate converter accepts frequencies from 32 to 48 kHz. MSRP: \$789. NAB Booth: N2146.

743 Cochran St., Buildings E & F  
Simi Valley, CA 90365  
805/579-6490; fax 805/579-8028  
www.hhbusa.com



### MediaFORM Scribe EC

The Scribe EC is a fully automated CD-R, DVD-R and/or disc-printing station. Scribe EC features 48x CD-R drives or 4x DVD-R drives, and can accommodate many popular inkjet and thermal printers. The Scribe EC also features MediaFORM's exclusive SmartDRIVE technology, which offers electronic watermarking, copy protection, audio "click" detection and more.

122 Oscar Way  
Chester Springs, PA 19425  
888/607-1524; fax 610/458-9554  
www.mediaform.com



## Microboards DSR DVD Tower Series

Microboards Technology DSR DVD system is capable of creating eight DVDs simultaneously at 4x speed. The system reads from a single DVD reader and copies to eight recorders simultaneously. In addition to its excellent record speed and reliability, the DSR DVD Series features an intelligent user interface and a hard drive for access to additional benefits. NAB Booth: SL1642.

8150 Mallory Ct.  
Chanhasen, MN 55317  
952/556-1600; fax 952/556-1620  
www.microboards.com

## Primera Technology Bravo Disc Publisher

The Bravo Disc Publisher is the world's first combination CD/DVD duplication and printing system. Bravo copies and prints 25 discs per job, hands-free. Bravo is available with one 48x CD-R drive or a DVD-R/CD-R combination drive that records DVDs at 4x and CDs at 16x. A 2400 dpi printer prints full-color, photo-quality images directly onto the surface of the disc. A robotic picking arm transports discs for complete unattended operation. Bravo is \$1,995 MSRP. NAB Booth: SL2409.

Two Carlson Parkway North  
Plymouth, MN 55447  
763/475-6676; fax 763/475-6677  
www.primera.com

## Rely Industries askDVD NJAR31

Rely's askDVD NJAR31 automated DVD workstation provides superior scene detection in video, video compression, image clarification, MPEG alignment and DVD authoring—all without a technician present. The NJAR31 differentiates between video content and compresses that information to a DVD, saving thousands of hours of labor costs, while offering high-quality and cost-effective video transfers to digital media.

10195 Inver Grove Trail  
Inver Grove Heights, MN 55076  
651/450-0539; fax 651/450-2032  
www.askdvd.com

## SADiE CD-R Tower

The SADiE CD-R Tower is a RAID-based master CD duplication system, available in eight-bay and four-bay configurations for cutting multiple master-quality 1x CDs, as well as high-speed duplication. Features include on- and offline operation and a built-in hard drive. In Online mode, the system can write CDs directly from the host SADiE DAW system; an Offline mode allows making CD copies without the need for a computer. NAB Booth: N2746.

475 Craighead St.  
Nashville, TN 37204  
615/327-1140; fax 615/327-1699  
www.sadie.com

## Computer Hardware/Software

### all4DVD Audio Hard Drives

Fast FireWire hard drives (over 30MB data transfer rate) with easy connectivity, sleek portable design, Oxford 911 chipset (ATA-6 compatible), 7,200 rpm with 8MB (1) Cache (buffer

size). These are a perfect storage solution for audio and digital video (capturing and editing) needs. Pricing: 120 GB, \$329; 180 GB, \$469; 200 GB, \$499.

15 Whatney  
Irvine, CA 92618  
949/215-0111; fax 949/215-0113  
www.all4DVD.com



## AlterMedia Inc. Studio Suite 5

Studio Suite studio-management software handles scheduling, project management, contacts/communications, invoices, tape/disk library and labels, equipment and media inventories, recall sheets, media-asset management and more. Network-accessible across Mac/Windows platforms, so the entire facility can access vital information. Power for large multiroom facilities, priced for the project studio.

3727 W. Magnolia Blvd., #830  
Burbank, CA 91505  
800/450-5740; fax 818/752-3903  
www.studiosuite.com

## BIAS Deck 3.5

Record and mix in 5.1 surround sound on Mac OS X with BIAS Deck VST 3.5. (Also compatible with Mac OS 8.6/9.x.) Deck features up to 64 tracks of recording and playback, 999 virtual tracks, VST plug-in support, automated level mixing, built-in DSP effects, and support for remote MIDI control of faders and transport controls. Version 3.5 adds Mac OS X support, 5.1 surround mixing, OMF import and over 20 additional VST effects. Includes BIAS Peak LE, BIAS Vbox SE, BIAS Freq EQ and Roxio Toast Lite. MSRP: \$399. Also available: Deck 3.5 LE, an entry-level audio workstation optimized for personal studio recording, with great features, great price. MSRP: \$99.



## BIAS Peak 3.2

Peak 3.2 is Mac OS X-native and is a powerful, yet easy-to-use digital audio-editing program. Peak features Red Book CD burning, sampler support and support for multiple file formats, including MP3, AAC and enhanced .WAV file support. Peak supports ASIO hardware under Mac OS 8.6/9.x and CoreAudio hardware under Mac OS X. BIAS Vbox SE, the powerful VST effects control matrix, is integrated into Peak. Includes Roxio Toast Lite and over 20 VST effects. MSRP: \$499. Also available—Peak 3.2 LE: powerful, with all of Peak's essential tools—at a \$99 MSRP. The \$199 Peak 3.2 DV is optimized for users of Final Cut Pro, iMovie, iDVD, Premiere, DVD Studio Pro and other video/DVD authoring apps.

1370 Industrial Ave., Suite A  
Petaluma, CA 94952  
707/782-1866; fax 707/782-1874  
www.bias-inc.com

## Broadcast Software International Stinger

Stinger instant audio can put up to 288 files at your fingertips, with thousands more just a click away. Stinger uses Windows audio file formats, and has resizable buttons that you can color-code. You can play multiple audio files simultaneously and change the names on the buttons without renaming the actual audio files. The program runs on a standard Windows PC and uses standard broadcast audio cards. Stinger is available for just \$199. NAB Booth: N2654.

1925 Bailey Hill Rd., Suite A  
Eugene, OR 97405  
541/338-8588; fax 541/338-8656  
www.bsiausa.com

## Cakewalk Sonar

The industry standard for audio and MIDI production on the PC, Sonar is used daily by thousands of musicians, composers, DJ/remix artists, engineers and producers. New features include support for OMF1 (Open-Media Format Interchange) file exporting for film and video projects.

51 Melcher St., 8th Floor  
Boston, MA 02210  
617/423-9004; fax 617/423-9007  
www.cakewalk.com

## Digigram Mac OS X Drivers

The Mac OS X drivers for Digigram's VXpocket v2, VXpocket 440 and VX222 sound cards present new options for Mac audio and audio-for-video applications. The VXpockets can perform serious audio production on laptop computers by offering excellent audio quality, plus compatibility with most audio applications under both Mac OS and Windows. The VX222 is popular with users of Mac-based video applications because of its reliability and professional analog and digital audio interfaces.

2101 Wilson Blvd., Suite 1004  
Arlington, VA 22201  
703/875-9100; fax 703/875-9161  
www.digigram.com



## Echo Digital Audio Indigo

The Indigo from Echo Audio offers super high-fidelity audio playback, featuring full-spectrum, full-resolution (24-bit/96kHz sampling) stereo playback in a compact Cardbus Type-II card. The Indigo is the perfect laptop solution for playing back audio from professional software programs, CDs or DVDs. Echo's Indigo not only provides clean audio output to your amplifier or amplified speakers, but it also includes a premium headphone amp for powering studio headphones.

## Echo Digital Audio MiaMIDI

The new 24-bit/96kHz MiaMIDI adds MIDI functionality to the popular, original Mia audio interface from Echo Audio. The MiaMIDI is a PCI card audio interface that contains two 1/4-inch TRS balanced inputs, two 1/4-inch TRS balanced outputs, S/PDIF I/O and MIDI I/O. It is the perfect desktop solution for all your high-fidelity audio and MIDI needs.

6460 Via Real  
Carpinteria, CA 93013  
805/684-4593; fax 805/684-6628  
www.echoaudio.com

# ADVERTISEMENT

## 75 Ohm BNC Product Guide



 **NEUTRIK**

**CONNECTING THE WORLD**

# Push Pull Cable Connectors



NBNC75PN57



NBNC75PTS11

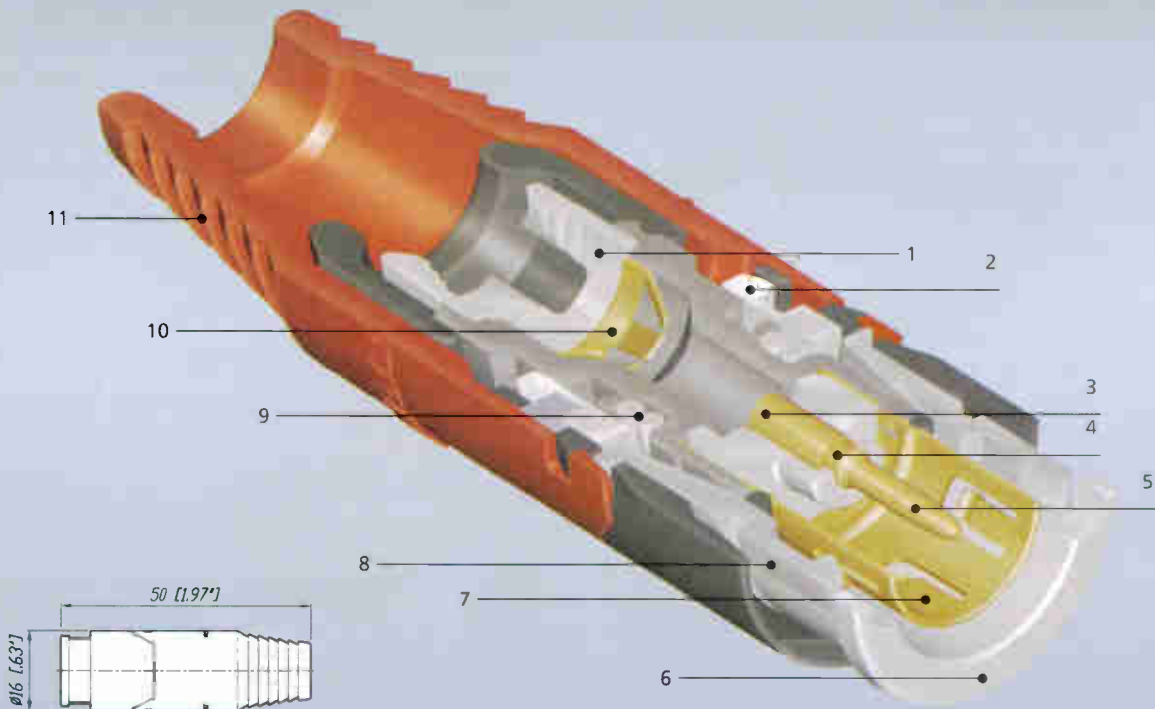


NBNC75PIE9



NBNC75PLS9

## Push Pull Cable Connectors



- 1 Unique strain relief with the proven Neutrik chuck principle, no crimping necessary.
- 2 Leading ferrule avoids tilting and prevents stress onto shield contact.
- 3 Pin identification.
- 4 Specially designed snap area on center contact provides tactile feedback for proper assembly.
- 5 Hard gold plated machined center contact improves durability and provides best electrical contact performance.

- 6 Machined brass shell provides outstanding durability.
- 7 Protruding ground spring fingers at the ideal position are well protected against mechanical damage.
- 8 Locking latch allows quick "push-pull" connections.
- 9 Axial spring compensates tolerances and assures seal.
- 10 Rear gold plated shield contact.
- 11 Push-Pull sleeve for easy handling in high density applications and excellent cable protection.

7 3 2 - 9 0 1 - 9 4 8 8

# Chassis Connectors



NBB75FI



NBB75DFGB



NBB75DFG



NBB75FS

## Bulkhead Jacks

- Gold plated center contact.
- "D" shaped housing or single feed through mountings.
- Excellent return loss / VSWR rating.
- Isolated or grounded versions.
- Feed through jack for added strength.
- Metal threads available on isolated versions (not available until 2nd quarter 2003) Contact Neutrik USA for details.
- Based on a new production technology, the machined brass connector body provides an extremely rugged and non-abrasive connection over long term use.
- When used in conjunction with Neutrik 75 Ohm BNC Rear Twist or Push-Pull cable connectors, they are the ideal combination for BNC applications.
- Recessed bulkhead jacks in the "D" size housing use the same hole cutout size as other Neutrik "D" series sized connectors such as the Speakon® NL4MP and the XLR receptacles in the "D-L-1" series.
- "D" shaped housing provides flush mounting and protection of the jacks from damage.
- Isolated versions solve potential grounding problems and prevent common-mode influence with other connections conducted over the same panel ground potential.

## Ordering Information

Part #	Housing	Feed Through or Solder	Isolated or Grounded	Metal Threads	Nickel or Black
NBB75DFI	D Series	Feed Through	Isolated		Nickel
NBB75DFIB	D Series	Feed Through	Isolated		Black
NBB75DFG	D Series	Feed Through	Grounded		Nickel
NBB75DFGB	D Series	Feed Through	Grounded		Black
NBB75FI	n/a	Feed Through	Isolated		Nickel
NBB75FG	n/a	Feed Through	Grounded		Nickel
*NBB75FI-M	n/a	Feed Through	Isolated	yes	Nickel
NBB75SI	n/a	Solder	Isolated		Nickel
NBB75DSI	D Series	Solder	Isolated		Nickel
NBB75DSIB	D Series	Solder	Isolated		Black
NBB75DSG	D Series	Solder	Grounded		Nickel
NBB75DSGB	D Series	Solder	Grounded		Black

\* Not available until 2nd quarter 2003 – contact Neutrik USA, Inc for details

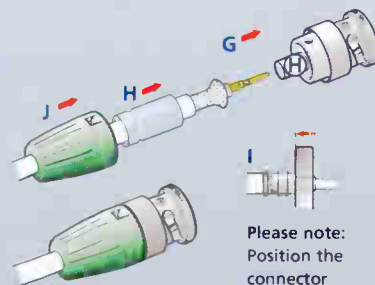
www.neutrikusa.com

# Assembly Instruction

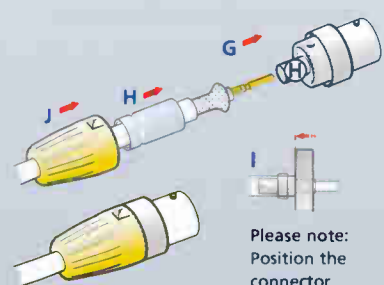
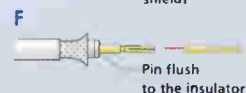
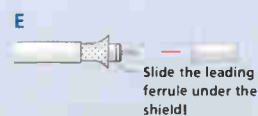
## Rear Twist Tiny Cable Connector & Cable Jack Tiny

- A** Slide the boot onto the cable
- B** Slide the crimp ferrule onto the cable
- C** Prepare cable as shown
  - Use an adjustable coaxial cable stripper
- D** Spread the braided shield
- E** Slide the leading ferrule on the cable
- F** Crimp the pin
  - Position the pin on the center conductor
  - Crimp the pin with the tool
  - For best crimping results it is recommended to use the original Neutrik crimp tool - HX-BNC with the corresponding insert or hexcrimp acc. to IEC 803-W (SW 1.7) or squarecrimp acc. to IEC 803-2 (SW 1.6)
  - Pin can also be soldered (Optional)!
- G** Insert the cable into the connector body
- H** Slide the crimp ferrule over the shield to the front and push the cable and leading ferrule to it's end position until you hear a snap noise
- I** Crimp the ferrule with the tool
  - For best crimping results it is recommended to use the original Neutrik tool - HX-BNC with the corresponding insert
- J** Snap the boot onto the connector body

### Rear Twist Tiny



### Cable Jack Tiny



Assembly instructions available as video on CD – contact Neutrik USA, Inc for details

7 3 2 - 9 0 1 - 9 4 8 8

# Assembly Instruction

## Push Pull Cable Connector

**A** Slide the boot onto the cable

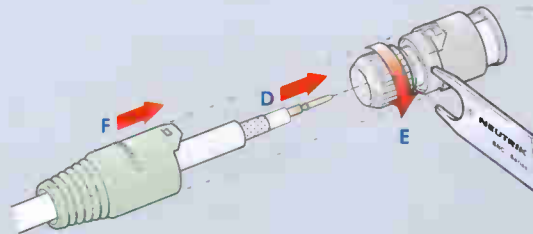
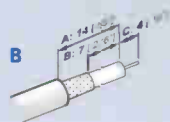
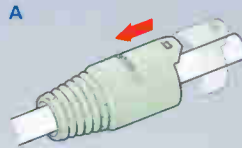
**B** Prepare cable as shown  
- Use an adjustable coaxial  
cable stripper.

**C** Crimp the pin  
- Position the pin on  
the center conductor  
- Crimp the pin with the tool  
For best crimping results it is  
recommended to use the original  
Neutrik crimp tool - HX-BNC with  
the corresponding insert or hexcrimp  
acc. to IEC 803-W (SW 1.7) or  
squarecrimp acc. to IEC 803-2 (SW 1.6)  
- Pin can also be soldered  
(Optional)!

**D** Push the cable into the connector  
body until you hear a snap

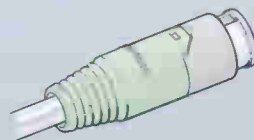
**E** Tighten the bushing  
- For stronger tightening use  
the Neutrik spanner HT-BNC

**F** Snap the sleeve onto  
the connector body



NEUTRIK® Spanner  
(HT-BNC)

Assembled Connector



Assembly instructions available as video on CD – contact Neutrik USA, Inc for details

www.neutrikusa.com

# Cable to Connector Guide

	Push Pull	Rear Twist	Rear Twist Tiny	Cable Jack Tiny	Cable Jack Panel	Hex crimp in mm
<b>BELDEN</b>						
1406A			NBTC75BVV5			5.00
1407B			NBTC75BVV5			5.00
1417B			NBTC75BVV5			5.00
1426A	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
1505A	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
1506A	NBNC75PIE9	NBNC75BJ9				5.41
1520A			NBTC75BF14	NBTB75CF14		4.06
1521A			NBTC75BF14	NBTB75CF14		4.06
1522A			NBTC75BF14	NBTB75CF14		4.06
1694A	NBNC75PTS11	NBNC75BTU11				7.36
1695A	NBNC75PQS11	NBNC75BQP11				6.47
1855A	NBNC75PDE6	NBNC75BDD6				4.53
865A			NBTC75BXX6			5.00
46899	NBNC75PFE7	NBNC75BFG7				5.00
8218			NBTC75BXX5			5.00
B241	NBNC75PNS7	NBNC75BLP7				6.47
B241	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
B2B1		NBNC75BXY9				8.23
8281F		NBNC75BY9				8.23
9221			NBTC75BL14			4.06
<b>CANARE</b>						
L-4 CFB	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
L-5CFB		NBNC75BY11				8.23
LV-61 S	NBNC75PNS7	NBNC75BLP7				6.47
V(3-5)-3C	NBNC75PGE7	NBNC75BGG7				5.00
V(3-5)-4 CFB	NBNC75PLE9	NBNC75BJ9				5.41
V(3-5)-5C	NBNC75PVS9	NBNC75BRS9				6.47
V(3-5)-5CFB	NBNC75PVS11	NBNC75BWS11				7.01
L-1.5C2V5			NBTC75BL14			4.06
<b>COMMSCOPE</b>						
2065V	NBNC75PIE9	NBNC75BJ9				5.41
2279V	NBNC75PQS11	NBNC75BQP11				6.47
5	NBNC75PNS	NBNC75BLP7				6.47
5565	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
5765	NBNC75PTS11	NBNC75BTU11				7.36
7536 (03-05)			NBTC75BXX6			5.00
7536	NBNC75PDE6	NBNC75BDD6				4.53
<b>DRAKA CARDINAL</b>						
SDV-S-LFH	NBNC75PFE7	NBNC75BFG7				5.00
SDV-75	NBNC75PFE7	NBNC75BFG7				5.00
SDV-L	NBNC75PVS11	NBNC75BWS11				7.01
<b>GEPCO</b>						
VPM2000	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
VSD2001	NBNC75PTS11	NBNC75BTU11				7.36

Cable Overview available on web in **PRODUCT** section for most up to date information

7 3 2 - 9 0 1 - 9 4 8 8



# Cable to Connector Guide

	Push Pull	Rear Twist	Rear Twist Tiny	Cable Jack Tiny	Cable Jack Panel	Hex crimp in m
<b>DRAKA MULTIMEDIA CABLE</b>						
0.23/1.5		NBTC75BF14	NBTB75CF14			4.06
0.6/2.8AF	NBNC75PFE7	NBNC75BFG7				5.00
0.6/3.7	NBNC75PNS7	NBNC75BLP7				6.47
0.8/3.7 AF	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
0.8/4.9Dz		NBNC75BXY9				8.23
1.0/4.8AF	NBNC75PTS11	NBNC75BUU11			NBNB75GUU11	7.36
0.41/1.9AF			NBTC75BNN5	NBTB75CNN5		4.53
0.51/2.3Dz			NBTC75BVX6			5.00
<b>SOMMER</b>						
600-0051 (M/L/S)	NBNC75PNS7	NBNC75BLP7				6.47
600-0054 (M/L/S)	NBNC75PNS7	NBNC75BLP7				6.47
600-0101M	NBNC75PFE7	NBNC75BFG7				5.00
600-0104M	NBNC75PFE7	NBNC75BFG7				5.00
600-025* -03 (05)			NBTC75BL14		4.06	
600-0701			NBTC75BL15	NBTB75CLI5		4.06
600-020* -03 (05)			NBTC75BL15	NBTB75CLI5	4.06	
600-0451	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
<b>SUHNER</b>						
G02233			NBTC75BF14	NBTB75CF14		4.06
G04233D	NBNC75PNS7	NBNC75BL57				7.01
S02223			NBTC75BL14			4.06
S04233		NBNC75BLP9			NBNB75GLP9	6.47
S04263	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
S05133-07	NBNC75PTS11	NBNC75BTU11				7.36
S05163-02	NBNC75PTS11	NBNC75BTU11				7.36
<b>OTHERS</b>						
AT&T 735						
COMM-TEC RGBHV		NBTC75B555			4.53	
BBC PSF 1/3	NBNC75PNS7	NBNC75BL57				7.01
Cordial CVI 3-7	NBNC75PDE6	NBNC75BDD6				4.53
Cordial CVI 06-28	NBNC75PFE7	NBNC75BFG7			5.00	
Cordial CVI (CVM) 06-37		NBNC75PNS7	NBNC75BLP7			6.47
KROSCHU (341 270, 341 280)			NBTC75BL14			4.06
ELF Inc. cable	NBNC75PTS11	NBNC75BW511				7.01
Eupen 705 CRT 5V-H 5/ELF Inc. Cable	NBNC75PTS11	NBNC75BT511				6.47
Extron BNC 5HR			NBTC75BNN5	NBTB75CNN5		4.53
Helix 734	NBNC75PNS9	NBNC75BNP9				6.47
Helix 735			NBTC75B555			4.53
Hirschmann KOKA 712Cu	NBNC75PTS9	NBNC75BT59				6.47
Kansai 0.5M3C-2V	NBNC75PGE7					-
Kansai 3C-55	NBNC75PFE6	NBNC75BFH6				5.00
COVID CVD 1300-1500		NBNC75BL15	NBTB75CL15		4.06	
RG59B/U	NBNC75PNS7	NBNC75BLP7				6.47
RG 179 B/U, CM14B			NBTC75BL14			4.06
Wisi MK 99 A	NBNC75PVS12	NBNC75BW512				7.01

Cable Overview available on web in **PRODUCT** section for most up to date information

[www.neutrikusa.com](http://www.neutrikusa.com)

# Technical Specifications

Specifications 75 Ohm Connectors		Rear Twist & Cable Jack Panel	Rear Twist Tiny & Cable Jack Tiny	Push Pull	Bulkheads
<b>Electrical</b>					
Impedance	75 Ohm	X	X	X	X
Rated voltage	500 V ac rms	X	X	X	X
Insulation resistance	> 5 GOhm	X	X	X	X
Dielectric withstanding voltage	1500 V ac rms	X	X	X	X
VSWR / Return Loss	≤1.050/>32dB up to 1 GHz ≤1.065/>30dB up to 2 GHz ≤1.100/>26dB up to 3 GHz	X	≤1.10/>26dB up to 1 GHz ≤1.14/>24dB up to 2 GHz ≤1.22/>20dB up to 3 GHz	X	≤1.03/>37dB up to 1 GHz ≤1.05/>32dB up to 2 GHz ≤1.08/>28dB up to 3 GHz
Inner contact resistance	≤3mOhm (initial)	X	X	X	X
Outer contact resistance	≤2mOhm (initial)	X	X	X	X
<b>Mechanical</b>					
Cable anchoring	Jacket crimping	X	X	Neutrik chuck principle	N/A
Cable O.D. range	mm	4.0 – 7.7	2.5 – 3.8	4.0 – 8.0	N/A
Center contact retention	> 30 N	X	X	X	
Engagement force	< 25 N	X	X	< 20 N	X
Life time (mating cycles)	1000 cycles minimum	X	X	X	X
<b>Environmental</b>					
Temperature range	-30°C to +85°C	X	X	-30°C to +40°C	X
Solderability	Complies with IEC 68-2-20	X	X	X	N/A
Contact crimpability	Complies with IEC 60803 and IEC 60352-2	X	X	X	N/A
<b>Materials</b>					
Shell: Brass (CuZn39Pb3), OPTALLOY coated		X	X	N/A	X
PA6 (Push Pull only)		N/A	N/A	X	N/A
D-Shape housing: Zinc diecast (ZnAl4Cu1), gal Ni or black Cr plating		N/A	N/A	N/A	X
Ground contact:					
Bronze (CuSn6), 0.2µm AuCo over 2 µm NiP15	X	X	X		
Brass (CuZn39Pb3), OPTALLOY coated		X	X		X
Center contact:					
Brass (CuZn35Pb2), 0.2µm AuCo or Palladium	X	X	X	X	
Brass (CuZn39Pb3), 0.2µm AuCo	X	X	X		X
Insulator: Teflon PTFE		X	X	X	X
Chuck: Polyacetal POM		N/A	N/A	X	N/A
Insulation Shell: Polyacetal POM		N/A	N/A	N/A	X
<b>Center contact:</b>					
I.D. in mm	Material	Plating	Coding Ring (# of rings on base of contact)		
0.4	Brass (CuZn39Pb3)	2 µm Palladium	0		
0.5	Brass (CuZn39Pb3)	2 µm AuCo (Redgold)	5		
0.6	Brass (CuZn39Pb3)	2 µm AuCo (Duor*)	1		
0.7	Brass (CuZn39Pb3)	2 µm AuCo (Tribor*)	2		
0.9	Brass (CuZn39Pb3)	2 µm AuCo (Redgold)	3		
1.1	Brass (CuZn39Pb3)	2 µm Palladium	6		
1.2	Brass (CuZn39Pb3)	2 µm AuCo (Tribor*)	4		



NEUTRIK USA, Inc.  
 195 Lehigh Avenue, Lakewood, NJ 08701-4527 • Phone 732-901-9488 • Fax 732-901-9608  
 E-mail: info@neutrikusa.com • www.neutrikusa.com



## Ediol M-100FX

Ten stereo channel mixer with phantom power, Aux send/rtn, EQ, voice and sound effects, and built-in USB audio interface to the computer. NAB Booth: SL3517.  
425 Sequoia Dr., Ste. 114  
Bellingham, WA 98226  
360/594-4273; fax 360/594-4271  
info@edirol.com  
www.edirol.com

## Emagic EMI 6|2 m

The EMI 6|2 m is the ideal USB audio and MIDI interface for mobile recording with a PowerBook, and for any situation where high-quality audio and MIDI and USB connectivity are priorities. The EMI 6|2 m can be used without a power adapter, with current supplied directly via the USB port. It provides six analog recording and two analog playback channels and two RCA sockets that can be used as either S/PDIF in/out or as MIDI in/out. In addition to acting as both audio and MIDI interface, the EMI 6|2 m offers an integrated USB Hub with two additional USB ports.

## Emagic Logic Platinum 6

Version 6 of Logic Platinum provides a new level of processor efficiency and extensive enhancements to the Arrange window that offer more editing and mixing power than ever before. In addition, Logic 6 debuts two new setup and file-management solutions: the Setup Assistant and the Project Manager. Users will also benefit from an improved feature set for film scoring, a superior-sounding EQ and MP3 import/export functionality. Halstenbeker Weg 96  
Reilingen, Germany 25462  
+49 4101 495 320  
www.emagic.de

## ESI MaxIO XD

The MaxIO XD is a complete 24-bit/192kHz recording system designed to handle 32 simultaneous channels of analog inputs and outputs. The basic system consists of the two-rack-space EX-8000, a unit with 8-in/8-out balanced XLR connectors and a choice of a PCI interface for desktop systems or a card bus interface for laptop recording. Each interface has four EDi (EgoSys Digital Interface) connections, each capable of individually supporting one EX-8000, giving the system 32-channel capability on one card. The PCI version of the MaxIO XD system supports up to four cards on the same computer, making a total of 128 channels of recording possible.  
3003 North First St., Suite 303  
San Jose, CA 95134  
408/519-5774; fax 408/519-5786  
www.esi-pro.com



## Gefen 4x1 DVI Switcher

Switch between any four computers using DVI or ADC displays, USB and audio. Maintains highest-resolution video, with no loss of quality. Use either PC or Mac with USB keyboard/mouse. Switch between four DVI, USB and audio sources. Switch between four VGA analog sources. Offers additional display output. Supports ADC flat-panel displays when used with the DVI-to-ADC conversion box. An RMT-4 remote control is optional.



## Gefen ex•tend•it CAT-5•6000

Extend two monitors, USB, RS-232 and audio up to 330 feet away from your computer with three CAT-5 cables. Saves space on your desktop. Convenient, flexible and expandable. Eliminate computer fan/drive noise where you work. Video maintains 1920x1200x75 resolution, and video supports any type of CRT or LCD analog monitor. USB supports high-powered 4-port hub. Ideal for Mac or PC computers using USB or RS-232 peripherals. Extends audio for multimedia applications. Rackmount option available. NAB Booth: SL203.  
6265 Variel Ave.  
Woodland Hills, CA 91367  
800/545-6900; fax 818/884-6294  
www.gefen.com

## Lynx Studio Technology LS-AES

The LS-AES is a multichannel AES/EBU or S/PDIF interface module for the LynxTWO and Lynx L22 professional PCI cards. Four AES inputs and outputs provide eight channels at sample rates up to 96 kHz, and four channels at sample rates up to 192 kHz. Connections are transformer-coupled with pro-quality sample-rate conversion provided on all inputs. Two LS-AES modules can be used with each LynxTWO or L22 for increased channel capacity.  
1048 Irvine Ave., #468  
Newport Beach, CA 92660  
949/515-8265; fax 949/645-8470  
www.lynxstudio.com

## Miramar Systems Desktop DNA

Miramar's line of system-migration solutions consists of two main products: Desktop DNA Professional and Desktop DNA Enterprise Edition. The Desktop DNA product line enables organizations to perform faster and more efficient PC migrations, updates and deployments by customizing and automating the migration process of system settings, application and data files. Pricing for Desktop DNA Enterprise Edition begins at \$32 per set for a 500-seat or greater implementation. Desktop DNA Professional is available for \$39/per.

## Miramar Systems PC MACLAN

Miramar's PC MACLAN products for Windows 95/98/ME and Windows NT/2000/XP allow users to network with Mac operating systems to create a seamless network of PCs and Macs. This is the only Windows-based product that allows Macs and PCs to share files, drives and printers bidirectionally on a LAN, WAN or over IP. PC MACLAN Version 9.0 retails for \$199.  
10 East Yanonali  
Santa Barbara, CA 93101  
805/966-2432; fax 805/965-1824  
www.miramar.com

## MOTU Digital Performer

Awarded the *Electronic Musician* Magazine Editors' Choice Award for three years in a row (2000, 2001 and 2002), Digital Performer is an audio workstation and MIDI-sequencer software package for Macintosh. Users can record, edit, arrange, mix, process and master MIDI and audio tracks simultaneously to produce musical recordings, soundtracks for film and television and other audio-production tasks. New features include unlimited undo history and flexible track grouping.  
1280 Massachusetts Ave.  
Cambridge, MA 02138  
617/576-2760; fax 617/576-3609  
www.motu.com

## NightWing Pro Karma/Logic Environment

The Karma Environment for Logic allows full automation of your Korg Karma from within Logic, offering complete creative control when using your Karma as a multi-timbral workstation either alone or within a larger, multi-synth MIDI rig. It provides

hands-off recording/editing control of your Karma, with complete two-way control: Any button press, parameter change and Karma Control that outputs a MIDI CC message will be recorded as part of your sequence in Logic. Once in Logic, these parameters can be freely edited and adjusted in real time using the Karma Environment GUI.

8002 Hollywood Way  
Sun Valley, CA 91352  
818/351-0177  
www.nightwingpro.com

## NPM Digital Music Systems DigiSam

Single-rackspace with flatpanel touchscreen digital audio player/recorder/editor. Features include: touchscreen editor, storage of up to 130 hours of noncompressed 44.1 audio, high-speed CD reader, balanced analog I/O, S/PDIF, time delay play, cross-fades, database searches, networkable and many more useful pro features.  
7656 Alderwood Ave.  
Corona, CA 92880  
909/272-3465; fax 909/272-3467  
www.networkpromktg.com/DigiSam.htm



## Pacific Pro Audio ppafire120

These custom 80 or 120GB FireWire drives utilize the Oxford 911 chip and our proprietary assembly techniques for exceptional track counts with today's high-end DAWs. Tested with edit densities of 500 msec, these drives will play back 120 tracks at 24-bit/44.1 on an Apple G4 1 GHz; or 100 tracks on a G4 500MHz CPU. These units can record 24 tracks at 24-bit/192. The ultraslim case takes up minimum space on your desk and does not contain a fan, so the control room remains quiet. \$299.  
1100 Virginia St., # 202  
Seattle, WA 98101  
206/264-9386; fax 206/264-0140  
www.pacificproaudio.com

## SEK'D Prodif 88

This PCI-interface soundcard handles the transmission of multichannel AES/EBU with up to 24-bit/96kHz resolution. Four AES/EBU connections are available using a breakout cable, and multiple cards can be cascaded within one PC. The Prodif 88 is ideal for mastering, DVD, surround and multichannel productions, as well as the direct connection to AD/DA converters and mixing consoles equipped with AES/EBU-interfaces. NAB Booth: N2125. Distributed by plus24  
N. La Brea Ave.  
W. Hollywood, CA 90038  
323/845-1171; fax 323/845-1170  
www.plus24.net

## Slanecon Digital ADR Manager 2.3

ADR Manager is the most comprehensive database system available for tracking ADR cues for film and television. The ADR Manager lets you spot, search, conform and print cues, reels, scenes and characters with unparalleled flexibility. Spot in any timecode or feet and frames format. Track progress of cues from spotted to mixed. Batch-print-customizable reports, including line count tables. Keep track of cues in different reel versions. Available for Mac and PC. Price: \$895.  
Box 10912  
San Rafael, CA 94912  
415/479-6967; fax 415/479-5067  
www.slanecon.com

## Digital Audio Workstations



### AMS Neve AudioFile SC Editor

The addition of AMS Neve and third-party processes to the AudioFile SC editor have given post and broadcast facilities another reason to choose the AudioFile SC for their editing requirements. Added to that is the fact that the AudioFile SC forms an integral part of AMS Neve's WorkFlow initiative, which includes the StarNet networking system. StarNet provides a complete solution for storing and transferring audio projects, enabling maximum productivity and minimum studio downtime. NAB Booth: N3038.

100 Sixth Ave., 5th Floor  
New York, NY 10013  
212/965-1400; fax 212/965-3739  
[www.ams-neve.com](http://www.ams-neve.com)



### Carillon Audio PC

Carillon Audio PCs are based on rugged, ultra-low-noise hardware, designed by engineers with nearly two decades of experience working on some of the world's most prestigious audio products. Each Carillon PC incorporates our acclaimed, heavy-duty, 19-inch, all-aluminum steel chassis and features front-panel patching and bays.

1141 Greenwood Lake Turnpike  
Ringwood, NJ 07456  
866/422-7455; fax 973/728-2931  
[www.carillonusa.com](http://www.carillonusa.com)

### Comparisons FindSounds Palette

FindSounds Palette is an audio player, recorder, editor, database, search engine and Web browser, all in one software program. It provides unprecedented access to more than 1 million sound effects and musical instrument samples on the Web and enables audio files on your hard drive to be organized and searched with ease. Its unique audio editor utilizes the patented Comparisons color waveform display. Ideal for sound designers, filmmakers, videographers, electronic musicians and Web developers.

Box 1960  
Grass Valley, CA 95945  
530/274-4440  
[www.findsounds.com/palette.html](http://www.findsounds.com/palette.html)

### Digidesign Pro Tools|HD

Pro Tools|HD, an integrated, modular family of Pro Tools hardware and software components, features seamless interoperability with Avid products and support for up to 192kHz sample rates, up to 128 tracks of simultaneous record and playback and up to 96 channels of I/O. Embodying the latest advances in DAW technology, Pro Tools|HD's power-on-demand architecture works with integrated multiformat surround mix-

ing and control surface options to provide unparalleled workflow efficiency, sound quality, power and flexibility. List price: \$7,995 to \$12,995, not including required audio interface. NAB Booth: SL300.



### Digidesign Pro Tools 6.x Software

Pro Tools 6.x software introduces support for and new features on Mac OS X, complemented by an all-new streamlined look and feel. Improved organization with the new DigiBase file-management utility, MachineControl additions, new Import Session options, plug-in functionality enhancements, enhanced MIDI functionality, Beat Detective 2.0 and more improve workflow like never before. Also showing: cross-platform Pro Tools/Avid interoperability with support for Avid Unity MediaNetwork, native Avid picture playback with AVoption|XL and more. Retail: Included with new Pro Tools systems; Pro Tools 6.0 upgrade: \$195 for TDM, \$75 for LE. NAB Booth: SL300. 2001 Junipero Serra Blvd.

Daly City, CA 94014  
650/731-6300; fax 650/731-6399  
[www.digidesign.com](http://www.digidesign.com)



### Digital-Groove GM3.06

Introducing the Digital-Groove Machine GM3.06 DAW. Designed and configured for extreme performance within multi-track audio editing/recording, video editing/rendering and DVD authoring applications. A four-rackspace unit with an Intel P4 3.06GHz MT Processor, 1 GB of 1066 RD-RAM, 80GB IDE and two 36GB 15,000 rpm Seagate SCSI 320 drives in removable bays, dual-head video card, Ethernet, FireWire and USB 2.0 ports, CD-RWs/DVD-R drives, Windows XP Pro. Other hardware and software combinations available.

5392 Conifer Dr.  
Mason, OH 45040  
513/325-5329; fax 513/336-9625  
[www.digital-groove.com/gm](http://www.digital-groove.com/gm)

### Fairlight DREAM Station

Pro digital audio production system in a compact "desktop" configuration featuring Fairlight's QDC Technology engine, offering 48 tracks of 24-bit, 96kHz recording with Binnacle editing, 56 channels of mixing, multiformat mixing and monitoring to 7.1, real-time 6-band EQ and two-stage dynamics on all channels, dynamics on all buses, enhanced surround panning and total dynamic automation with moving touch-sensitive rotary encoders and faders. Options include sidecar fader-expansion bays, plug-in-management system, MediaLink networking, Serversound and connectivity packages. NAB Booth: SL1635.

844 N Seward St.  
Hollywood, CA 90038  
323/465-0070; fax 323/465-0080  
[www.fairlight.net](http://www.fairlight.net)

### iZ Technology CC-24

CC-24 is a single-rackspace remote control and TFT display that can access and control up to eight RADAR units. 214 8988 Fragerton Court  
Burnaby, B.C., Canada V5S 5H6  
800/776-1356; fax 604/430-5818  
[www.recordingtheworld.com](http://www.recordingtheworld.com)



### Mackie HDR Pro

HDR Pro gives the Mackie HDR24/96 compatibility with Digidesign Pro Tools systems. HDR Pro converts HDR24/96 audio files from Broadcast Wave (.WAV) to Sound Designer II (SD2) files and create a new Pro Tools session file that can be opened directly in Pro Tools. HDR Pro will also import any supported Pro Tools session file (Mac versions 3-5.x) and all corresponding SD2 files directly into an HDR project.

### Mackie Soundscape I/O 896

The I/O 896 8-channel audio interface box designed specifically for the Soundscape 32 embedded hard disk recorder offers a full assortment of I/O flavors in one two-rackspace unit. The I/O 896 covers eight channels of all the essentials (AES/EBU, analog, ADAT optical, TDIF), plus support for both MADI and FireWire interface options. Regardless of the format, it can support sample rates up to 96 kHz—with no compromises. NAB Booth: N3231.

16220 Wood-Red Rd.  
Woodinville, WA 98072  
425/487-4333; fax 425/487-4337  
[www.mackie.com](http://www.mackie.com)

### Multipoint Systems Composer Audio Workstation

Dual Xeon-based digital workstations, extreme work loads of 100% continuous duty starting at \$4,999.

4507 Orangewood Lane  
Bowie, MD 20715  
301/352-3823; fax 301/352-7999  
[www.multipointUSA.com](http://www.multipointUSA.com)



### Roland Corporation VS-2400CD Digital Studio Workstation

The VS-2400CD Digital Studio Workstation brings professional 24-track recording and CD burning to a new low price. This compact recording workstation inherits many features from the flagship VS-2480CD—like premium analog components, motorized faders and a VGA Monitor output for powerful software control—while adding new features of its own, such as RSS 3-D panning and V-LINK for integrating Edirol video products. Onboard effects and an internal CD drive let you mix, master and burn like a pro. Price: \$3,295 MSRP.

5100 S. Eastern Ave.  
Los Angeles, CA 90040  
323/890-3700; fax 323/890-3701  
[www.RolandUS.com](http://www.RolandUS.com)

### Sonic Studio LLC Sonic Studio HD

The Sonic Studio HD Mac-based DAW for advanced audio editing and true multiformat mastering (CD, DVD-Audio, audio for DVD-Video and SACD) supports up to 16 streams and eight I/Os of 24-bit/96kHz audio, or up to eight streams and four I/O of 24-bit 192kHz audio, segment-based EQ and gain processing, integrated surround mixing, HD multichannel sample-rate conversion and more. All internal processing is at 48-bit resolution. Options include Sonic's DVD authoring tools, the HDSP Plug-in Processor and proprietary NoNOISE restoration software.

12827 Industrial Park Blvd.  
Plymouth, MN 55441  
763/577-1535; fax 763/577-5950  
www.sonicstudio.com

### Steinberg Nuendo 2.0

Steinberg's Nuendo is a high-end digital audio workstation developed specifically for the demands of modern multimedia productions. Regardless of whether you are working on music or a post-production project, in broadcasting or video, Nuendo offers a solution that will perform to the highest expectations. Nuendo does this more cost-effectively than other systems. All recording, editing and mixing functions were developed from scratch, allowing Nuendo to offer the most advanced studio technology. Nuendo's extensive interface, import and export functions guarantee perfect integration into every studio environment. As a cross-platform native system, you can adapt the Nuendo environment to suit your project.

### Steinberg WaveLab 4.0

Combining easy-to-use stereo editors with a wealth of mastering features, WaveLab 4.0 offers powerful editing tools for Windows PCs and an array of new, high-quality virtual effect processors. Comprehensive CD burning capabilities, real-time audio file analysis and batch processors further add to the functional depth of WaveLab 4.0. Steinberg's latest version also supports samplers, ASIO, WDM and a vast range of file formats, as well as file resolutions of up to 32-bit IEEE/192 kHz. Also new in WaveLab 4.0: real-time input and output monitoring. With its unique Audio Montage window, WaveLab 4.0 offers a revolutionary, nondestructive editing concept with flexibility and superb performance.

9200 Eton Ave.  
Chatsworth, CA 91311  
818/678-5138  
www.steinberg.net



### Tascam SX-1

The SX-1 Digital Production Environment combines automated digital mixing, hard disk recording, MIDI sequencing, extremely powerful editing, DSP effects and CD-burning capabilities in a single production unit. The SX-1 features a flexible 40-input, 32x8x8 digital mixer; 16-track hard disk recorder; highly integrated and intuitive waveform; MIDI and automation data editing; surround mixing capabilities; a 128-track MIDI sequencer; DSP plug-in technology; extensive analog, digital, MIDI and computer interfacing; and built-in timecode/sync support.

7733 Telegraph Rd.  
Montebello, CA 90640  
323/726-0303; fax 323-727-7635  
www.tascam.com

### X-Vision Audio MS-X

Digital audio player, MIDI file player/editor and .WAV file player. This unit brings everything necessary to perform alone or

with your own backing tracks, in one-rackspace unit. Touch-screen remote control and no computer required.

5111 Market St.  
Boardman, OH 44512  
330/259-0308; fax 330/259-0315  
www.xvisionaudio.com

## Digital Converters

### Apogee Electronics Mini DAC

A portable, affordable, pro 192kHz D/A converter. Great for reference monitoring, playing soft synths and connecting non-USB devices to your DAW. Inputs are AES (single and double-wide), optical (ADAT, S/MUX and S/PDIF), coaxial S/PDIF and USB. Features: analog output level control; low-current/low-voltage operation (ideal for location/ENG); and a digital thru mode adds USB functionality to any digital device, including Apogee's Mini-Me, Trak2 and Rosetta.



### Apogee Electronics Rosetta 8 I/O

Eight channels of Apogee's legendary AD/DA conversion, "Soft Limit," UV22HR and 96kHz sampling with 192kHz upgrade available—all in one box. Features: sample rates up to 96k; eight analog inputs; eight analog outs; optical (ADAT, S/MUX) I/O; wordclock I/O (input unterminated); Soft Limit on all eight analog ins; UV22HR on all eight analog inputs; and optional FireWire connection. NAB Booth: SL830.

3145 Donald Douglas Loop South  
Santa Monica, CA 90405  
310/915-1000; fax 310/915-7420  
www.apogeedigital.com



### CEDAR Audio ADA

Designed specifically to complement CEDAR's Series X and Series X+ restoration modules, and our DNS dialog noise suppressors, the CEDAR ADA is a 24-bit, 96kHz stereo, combined A/D and D/A converter. It offers balanced and unbalanced analog audio I/O, and AES/EBU and S/PDIF digital I/O. Offering 24/96 performance at an affordable price, it is also suitable for all other applications requiring 2-channel AD/DA conversion. NAB Booth: N3201.

Distributed by Independent Audio  
43 Deerfield Rd.  
Portland, ME 04101  
207/828-0024; fax 207/773-2422  
www.cedaraudio.com



### Leigh Audio Design DVD-Audio Interface

The Leigh Audio Design 6+4 DVD-Audio Interface provides a transparent solution to interfacing consumer DVD-Audio players to professional monitoring systems and audio consoles. This rugged single-rackspace design features front-panel level trims; a quiet, toroidal transformer; internal power supply; six gold-plated RCA -10dBv inputs; and six gold-plated +4dBu XLR outputs. Specs: THD&N 0.003%, 100kHz bandwidth and S/N 94 dB (with 11.8dB gain). Current owners include Sony Music Studios and Hit Factory of New York City. Retail: \$490.

Box #308/41 Schermerhorn St.  
Brooklyn, NY 11201-4133  
917/584-9767  
www.leighaudiodesign.com

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## Sonifex Digital Headphone Distribution Amp

The RB-DHD6 is a one-rackspace unit that receives a digital input signal as either AES/EBU or S/PDIF, and converts it to six individually buffered, 1/4-inch headphone outs, each with its own volume control. The input connectors consist of a single balanced XLR for the AES/EBU input, and a single unbalanced phono connector for the S/PDIF input. Retail: \$856. NAB Booth: N3201. Distributed by Independent Audio  
43 Deerfield Rd.  
Portland, ME 04101  
207/773-2424; fax 207/773-2422  
www.independentaudio.com



## Audio-Technica AT3060 Phantom-Powered Tube Mic

The AT3060 cardioid tube mic gives the warm sound of a vintage tube microphone and operates on standard 48V phantom power; no power supply or special cables needed. Includes custom shockmount. Frequency response: 50 to 16,000 Hz. Open circuit sensitivity: -32 dB. Maximum input sound level: 134dB SPL. Dynamic range: 117 dB. Signal-to-noise ratio: 77 dB. List price: \$599. NAB Booth: N2212.

## Microphones (including wireless)



## Ac-cetera MIC-EZE Model PIG-E-BAK

Mount microphone to microphone. Dual feed adjusts to angle for phase cancellation. Works with any-size microphone. List: \$40.95. 3120 Banksville Rd.  
Pittsburgh, PA 15216  
800/537-3491; fax 412/344-0818  
www.ac-cetera.com

## ADK Model ST

The Model "ST" microphone is a Class-A FET design featuring three polar patterns, pad and bass roll-off. Designed for live, broadcast and studio applications, this mic has a smooth response curve that's flattering on both male and female vocals. Applications include "point-source" pickup of multiple voices/instruments, as well as high-SPL applications.  
360/566-9400  
www.adkmic.com



## AEA R78

AEA's R78 ribbon microphone continues the classic RCA 44's tradition of sensual sound. The R78 is a dedicated figure-8 ribbon mic optimized for vocals, voice-overs, character voice and on-air work, with the comfortable intimate clarity and extended bottom of the figure-8 44 in a smaller physical package with an extended top end. The physical package is based on the familiar 77 Series. Options: switchable highpass filter, black/chrome radio finish and Rycote wind filter.  
1029 N. Allen Ave.  
Pasadena, CA 91104  
626/798-9128; fax 626/798-2378  
www.wesdooley.com



## Audio-Technica AT899 Subminiature Omni Lavalier

The new AT899 subminiature omnidirectional condenser lavalier microphone provides maximum intelligibility in a mere 5mm diameter housing. The wired model has the flexibility of phantom power or battery operation. The AT899 is also available in black or beige, unterminated or with connectors for use with various wireless systems. Included with all models is an extensive accessory collection including interchangeable clothing clip, single- and double-mic holders, viper clip and windscreens. Wired model list at \$299. Wireless versions start at \$199. NAB Booth: N2212.  
1221 Commerce Dr.  
Stow, OH 44224  
330/686-2600; fax 330/686-0719  
www.audio-technica.com



## Audix The Micros

The Micros are the world's smallest condenser microphones with an integrated preamp and detachable cable. There are two models in this series, the M1245 and M1290. Both feature a 12mm capsule; the M1245 is 45 mm in length and is available in both hypercardioid and cardioid patterns. The M1290 is 90 mm in length and is available in cardioid, hypercardioid and omni patterns. Its small footprint and wide frequency response make this ideal for video and film production.

## Audix Corporation OM6

The OM6 is a handheld hypercardioid dynamic microphone. It is an excellent vocal mic; its smooth response and off-axis rejection make it highly recommended for live interviews. It is al-

so an excellent choice for capturing vocals when broadcasting or recording live musical performances.  
Box 4010  
Wilsonville, OR 97070  
503/682-6933; fax 503/682-7114  
www.audixusa.com

## Beyerdynamic MCE 494

Beyerdynamic has introduced a novel miniature microphone. The MCE 494 is designed to be used by journalists and conference delegates and in other dialog-acquisition applications using semi-pro recording media, PDAs or laptop computers. The mic is designed to improve the response characteristics significantly over the microphones fitted internally in such devices, transforming the audio quality and making it suitable for broadcast.

## Beyerdynamic MC 930

This high-quality, small-diaphragm condenser features a wide 40-20,000Hz response and 71dB signal-to-noise ratio. The switchable, 6dB/octave, 250Hz low-cut filter reduces popping noise when close miking. With the WS101 windscreens and -15dB switchable pre-attenuation, the MC 930 can also be used for handheld vocals. Its cardioid pattern offers high gain-before-feedback and eliminates noise from the rear, making it suitable for studio or location use.  
56 Central Ave.  
Farmingdale, NY 11735  
631/293-3200; fax 631/293-3288  
www.beyerdynamic.com



## DPA Wide Cardioids

The DPA Compact Wide Cardioids are ideally suited for a visually discrete microphone setup. The 4028, in combination with the DPA CAP0400, offers a low-profile podium solution that will appeal to the set designer and the audio engineer. The wide cardioid capsule has been acoustically calibrated with a pleasant and subtle high-frequency lift; the resolution and clarity are the same as the 4011 cardioid, but the proximity effect will be more pronounced.



## DPA 4071 Miniature Microphone

The 4071 features a specially designed, fixed microphone grid with a soft presence boost of typically 5dB at 4 to 6 kHz. Speech intelligibility, clarity and definition of voices and instruments lie within the area that the 4071 grid boosts. When clarity seems to be missing from chest-worn microphone placement, the 4071 will make voices cut through. A wide range of accessory equipment is available to offer the engineer easy, fast and safe mounting of the DPA 4071.  
Gydevang 42-44  
DK-3450 Allerød, Denmark  
+45 4814 2828; fax +45 4814 2700  
www.dpamicrophones.com

## Electro-Voice CDR-1000 Dual RE-1 Receiver

This dual-UHF receiver features a single-rackspace package; front-panel headphone jack for easy setup/monitoring; antenna output jacks for operating the receiver on two antennae

without a separate splitter; eight receivers integrated to operate from two antennae and one APD4 antenna splitter; DC on the antenna input jacks to operate optional UAA-500 RF antenna amplifier; mic- or line-level balanced XLR output; internal power supply; and real-time PC monitoring via USB.

### Electro-Voice RE510

This supercardioid handheld condenser features a warm grip handle, smooth bandwidth, low distortion and wide dynamic range. A LF boost switch under the ball screen offers configuration as a classic-sounding live vocal mic or high-performance studio mic. In roll-off configuration, low end compensates for proximity effect and upper-mid frequencies offer clear and natural response. In studio mode, the low-end response is lifted, creating a versatile instrument mic. NAB Booth: C2812. Distributed by Telex  
12000 Portland Ave. South  
Burnsville, MN 55337  
952/736-3901; fax 952/736-4582  
www.telex.com

### Groove Tubes Model 1B/1B-FET

The Model 1B delivers better performance and sound than prestigious mics costing much more. This enhanced reissue of our legendary Model 1A side-address true condenser features a hand-assembled 1.10-inch diameter capsule with a thin, 3-micron evaporated-gold diaphragm. Available in tube or FET versions. Distributed by M-Audio  
45 E Saint Joseph St.  
Arcadia, CA 91007  
626/445-2842; fax 626/445-7564  
www.m-audio.com

### MBHO Microphones MBNM-150 EN

The MBNM-150 EN represents the sum total of MBHO's exhaustive research into just what would represent the "perfect electret podium microphone." The electret cardioid capsule is

mounted on a fully adjustable gooseneck. The 12mm, fixed capsule has extraordinarily effective off-axis rejection with built-in compensation for proximity effect. List: \$389.



### MBHO Microphones MBNM-440 CLS

Our compact true condenser-type microphone, the MBNM-440 CLS with integrated capsules and amplifier is an economical alternative to MBHO's modular mic system with its exchangeable capsule system. Using advanced SMD technology with an extremely short signal path and low phantom power, the new MBHO MBNM-440 CLS is a stunning example of German craftsmanship.  
495 Lorimer St.  
Brooklyn, NY 11211  
718/963-2777; fax 718/302-4890  
www.mbho.de

### MXL 603Spr

The 603Spr recording package contains two 603S mics, which are matched and include shockmounts and a rugged flight case. The 603S condenser mics are best used as drum overheads and in guitar-miking applications. The 603S has a 20mm gold-deposited diaphragm with a 20-25k Hz frequency response. The polar pattern is subcardioid. The 603S is internally wired with world-renowned Mogami cable. NAB Booth: SL745.  
1910E Maple Ave.  
El Segundo, CA 90245  
800/800-6608; fax 310/333-0688  
www.mxl.com



### Neumann KK 105-5 Wireless Capsule

Based on the award-winning Neumann KMS 105 handheld condenser microphone, the new Neumann KK 105-5 capsule head was developed for use with the Sennheiser SKM 5000 wireless system. The KK 105-5 true condenser head is backward-compatible with all existing SKM 5000 transmitters and is available in black or nickel finish. Like its predecessor, the KMS 105, the KK 105-5 capsule has a unique multilayered grille assembly that eliminates popping and breath noise without sacrificing high-frequency clarity and transient detail. NAB Booth: N2103. Distributed by Sennheiser  
One Enterprise Dr.  
Old Lyme, CT 06371  
860/434-9190; fax 860/434-1759  
www.sennheiserusa.com

### Pacific Pro Audio LD-2ube

This dual-diaphragm, nine-pattern condenser tube microphone is excellent for voice-over and includes a carrying case, an elastic suspension and windscreen. The mic is designed for use in studios, concert halls and broadcast applications where the warmth of a tube is desired. The LD-2ube exhibits a wide frequency response, smooth response curve, large dynamic range and low distortion. Retail: \$299.  
1100 Virginia St., #202  
Seattle, WA 98101  
206/264-9386; fax 206/264-0140  
www.pacificproaudio.com

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## Pearl CO 22 Microphone

An omnidirectional, large-membrane microphone has not been available from Pearl Lab as a pure mono mic before the Pearl CO 22. The capsule is Pearl's classic rectangular dual membrane. The high-quality, phantom-powered preamplifier has very low noise levels, making the CO 22 useful in many studio applications. The CO 22's frequency response is very flat on both "on-" and "off-" axis, up to 12 kHz, making it great for use in distance recording applications. List: \$1,166. NAB Booth: N3201.

Distributed by Independent Audio  
43 Deerfield Rd.

Portland, ME 04101

207/773-2424; fax 207/773-2422

www.independentaudio.com



## Sabra-Som SMS-5.1 Surround Mic Support

The SMS-5.1, a new and revolutionary concept in natural 5.1 surround capturing, allows simultaneous positioning of five unidirectional mics in five different directions in a 360° spectrum with full angular capture adjustment. It consists of a disc with five hexagonal 20cm arms, attached radially with adjustable angle. The end of each arm has Sabra-Som's versatile SSM-1 mic mount, which is vertically adjustable and allows the placement of any mic.

Rua Bandeirantes, 289 Bom Retiro

Sao Paulo, SP Brazil 01124-010

+55 11 228-7970; fax +55 11 227-6904

www.sabrasom.com.br

## Schoeps CMC6 xt

The CMC6 xt is the latest addition to our acclaimed Colette Modular Microphone System. When it is combined with one of our axial address capsules, such as the MK4 or MK41, the user can benefit from an extended frequency range from 20 Hz to beyond 40 kHz. Other specs: 12V/48V phantom powering and 25/35-ohm output impedance, allowing cable lengths of up to 500 meters. Pro Net Price: \$550. NAB Booth: N2046.

Distributed by Redding Audio

97 South Main St., #10

Newtown, CT 06470

203/270-1808; fax 203/270-2934

www.schoeps.de



## Sennheiser MKH 418S Stereo Shotgun

A cost-effective and elegant choice for broadcast, film, television and multimedia use, the MKH 418S M-S incorporates a mid capsule from MKH 416, combined with a new figure-8 side capsule system. Mid-side (M-S) stereo allows the adjustment of stereo imaging through the use of an independent dual-capsule system. The outputs support variable matrixing capabilities and multifunctional use in post-production. With standard 5-pin XLR male connector, the rugged, weather-resistant mic is powered via 48-volt phantom supplied to each capsule.



## Sennheiser MKE Platinum Mic

The MKE Platinum subminiature mic is designed for television, theater and broadcast. Insensitive to handling noise and moisture, the MKE Platinum utilizes low-capacitance, ultrathin and flexible, rugged, damage-resistant cable to ensure easy, unobtrusive attachment and years of trouble-free service. The unit is virtually invisible, built to exacting tolerances and features an optimized treble response for improved headroom. Bass response is optimized through precise capsule-ventilation design, with a very smooth THD curve. Handles SPLs up to 142 dB. NAB Booth: N2103.

One Enterprise Dr.

Old Lyme, CT 06371

860/434-9190; fax 860/434-1759

www.sennheiserusa.com



## Shure SM86

Combining the ruggedness of Shure's legendary SM line with the studio-quality audio of a Shure condenser, the SM86 handheld vocal microphone has a cardioid polar pattern and a wide frequency response of 50-18k Hz. The mic additionally delivers high gain-before-feedback and a tailored frequency response for a clear reproduction of vocals.

222 Hartrey Ave.

Evanston, IL 60202

847/866-2200; fax 847/866-2279

www.shure.com



## Sony UWP-Series UHF Synthesized Wireless

Model numbers: UWPC1, UWPC2, UWPS1, UWPS2, UWPX1, UWPX2. Six complete system packages are available in both bodypack and hand-held configurations. Tuner options are camera pack, half-rack and modular. Each package available in two channel options: channels 62 to 65 and channels 66 to 69. Suitable for a wide range of applications, including news gathering, interviews, talk shows, conferences and P.A. systems. PLL-synthesized, space-diversity reception, tone-squelch circuitry, simultaneous multichannel operation. List: \$699. NAB Booth: SU4015.

1 Sony Dr.

Park Ridge, NJ 07656

201/930-1000; fax 201/930-6307

www.sony.com/proaudio

## Soundelux ifet7

The ifet7 is designed for the same application niche as a classic FET47 and 87FET combined. Soundelux achieved this dual-purpose application by building two mics into one: a top-quality German capsule mated to two completely different sound-ing sets of internal mic electronics via a convenient switch for amazing performance at an amazing price. MSRP: \$2,100.

Distributed by Transamerica Audio

4760 W. Dewey Dr., Suite 129

Las Vegas, NV 89118

702/365-5155; fax 702/365-5145

www.transaudiogroup.com

## SoundField 422B

SoundField has lowered the price of B-format output mics and offers the ability to create a 5.1 surround output with its 422B mic. The 422B can be mated with the two-rackspace SoundField SP 451 decoder for 5.1 output. The SPS422B can operate in an infinite number of continuously variable polar pattern and stereo-width combinations. The 422B is \$5,000.

Distributed by Transamerica Audio Group

4760 W. Dewey Dr., Suite 129

Las Vegas, NV 89118

702/365-5155; fax 702/365-5145

www.soundfieldusa.com

## Mixing Consoles



## AMS Neve DFC2

AMS Neve now offers a further leap forward for leading studios with the DFC2, combining proven DFC facilities with powerful new features that set a new benchmark for creative film mixing. Unrivaled EQ, filter and dynamics ensure that the DFC2 continues to offer the legendary AMS Neve sound, while the industry-proven Encore automation offers compatibility between AMS Neve's portfolio of products including Neve 88R, Logic MMC and Libra Series consoles. NAB Booth: N3038.

100 Sixth Ave., 5th Floor

New York, NY 10013

212/965-1400; fax 212/965-3739

www.ams-neve.com

## Calrec Zeta 100

At NAB 2003, Calrec Audio unveils the new Zeta 100 digital production console and showcases its Alpha and Sigma 100 consoles. Based on proven system architecture, the Zeta 100 is the third console in Calrec's program to provide complete digital solutions for a range of broadcast environments. Features include dynamics on every channel, eight auxes, 12 multitrack/IFB sends, 99 Flash ROM setup memories, powerful integrated internal routing and full 5.1 surround monitoring. NAB Booth: N2646.

Nutclough Mill

Hebden Bridge, West Yorkshire, UK HX78EZ

+44 1422 842159; fax +44 1422 845244

www.calrec.com





### Euphonix System 5-B Broadcast Package

System 5-B, Euphonix's flagship broadcast digital mixing system, has just become more affordable with a new mixer software package. The new model allows for up to 96 channels using a single DSP mixer core; this is up from 72 channels. The new System 5-B includes a dedicated mix-minus bus with single-button press mix-minus outputs and talkback from each channel. The base System 5-B model now also includes the same redundancy and dual-mains input capabilities as Max Air, and has been priced to fit the demanding budgets of network production.

### Euphonix Broadcast Options for System 5-B and Max Air

This FiberLink for remote digital audio connection works up to 1,000m and includes digital bidirectional MADi for up to 56 channels of audio together with the remote mic preamp control link. Two new multichannel converter rackmount units for MADi-to-AES/EBU 75-ohm co-ax and AES/EBU 75-ohm co-ax-to-MADi. Each converter includes 26 digital inputs or outputs (13 AES pairs). NAB Booths: N3014 and MM203.

220 Portage Ave.  
Palo Alto, CA 94306  
650/855-0400; fax 650/855-0410  
www.euphonix.com



### Harrison by GLW TVD SL

The TVD-SL Digital Live On-Air Broadcast Console is equipped with 24 remote-controlled microphone preamps, up to 18 video monitors, 24 stereo line inputs, dedicated 5.1 input (6-channel); 24 mix-minus buses; eight fader control groups; four stereo program outputs. Each of its 96 channels features 4-band parametric EQ, high/lowpass filters, 16 aux sends, full dynamics with separate metering, continuous input metering, and stereo and 5.1 panning. From \$150k. NAB Booths: N2666 and SU502.

1024 Firestone Parkway  
LaVergne, TN 37086  
615/641-7200; fax 615/641-7224  
www.harrisonconsoles.com



### Kamesan KS-342 Compact Mixer

This feature-packed 4-channel mixer for film/video location recording includes 12/48VDC phantom power, LCF, internal oscillator, VU or peak meter option, PFL, MS facility, compressor, ganging, submixing and digital out. An all-weather carry case is available, and options include the KS-6001 submixer plug-in module, which provides an additional four input channels and the KS-6002 EQ/Compressor module.



### Kamesan KS-T2000 Compact Mixer

The KS-T2000 3-channel mixer is a lightweight location mixer offering 12/48VDC phantom power, LCF, multilevel stereo output, oscillator and switchable headphone monitoring with EE input. The mixer operates for six hours on four AA cells. An optional soft case provides storage and all-weather access to controls and connectors. NAB Booth: N2146.

Distributed by HHB  
743 Cochran St., Bldgs. E & F  
Simi Valley, CA 90365  
310/319-1111; fax 310/319-1311  
www.kamesan.info



### Martinsound Flying Faders II

The Flying Faders II next-generation moving fader automation system builds on the 12-year heritage and enormous worldwide user base of Flying Faders and has been developed in a Windows XP environment to support powerful new features and future growth. The main screen has been reworked, providing a multitabbed graphic interface that allows one-click access to any setting. Flying Faders II lets users control their own work environment through multiscreen and cross-platform support. NAB Booth: N2048.

1151 West Valley Blvd.  
Alhambra, CA 91803  
800/582-3555; fax 626/248-3092  
www.martinsound.com



### Otari DB-10 Digital Broadcast Console

The Otari DB-10 is a compact on-air digital console. It features 10 fully configurable input channel faders. Choose from analog (mono/stereo) or digital (AES/EBU/S/PDIF) inputs for a maximum of 16 active channel paths in total. Four mic inputs are always available on faders 1 through 4. The unit also includes the EMG emergency bypass function, which protects you when one of your input sources fails. Up to four DB-10 units can be cascaded together.

8236 Remmet Ave.  
Canoga Park, CA 91304  
800/877-0577; fax 818/594-7208  
www.otari.com

### Penny & Giles Faders/Parts

Manco is now the exclusive source for Penny & Giles audio fader parts, service and faders for non-OEM customers in the USA and Canada. In addition, Manco provides tech support and servicing for Flying Faders-brand fader automation systems. NAB Booth: N2520.  
1694 Calle Zocalo  
Thousand Oaks, CA 91360  
805/529-2496; fax 805/529-2496  
www.manquen.net



### Roland Corporation M-1000 10-Channel Digital Line Mixer

The M-1000 10-channel Digital Line Mixer is a single-rack-space console designed to mix digital signals of varying sample rates. The M-1000 comes with four stereo S/PDIF digital inputs and a stereo analog input—all with 24-bit/96kHz sound quality—making it perfect for mixing electronic musical instruments and recording gear equipped with digital outputs. The M-1000 can even mix audio from a PC via its USB port. Wordclock is also provided, and multiple units can be linked for greater mixing power. Retail: \$695.

5100 S. Eastern Ave.  
Los Angeles, CA 90040  
323/890-3700; fax 323/890-3701  
www.RolandUS.com

### Solid State Logic Avant Plus

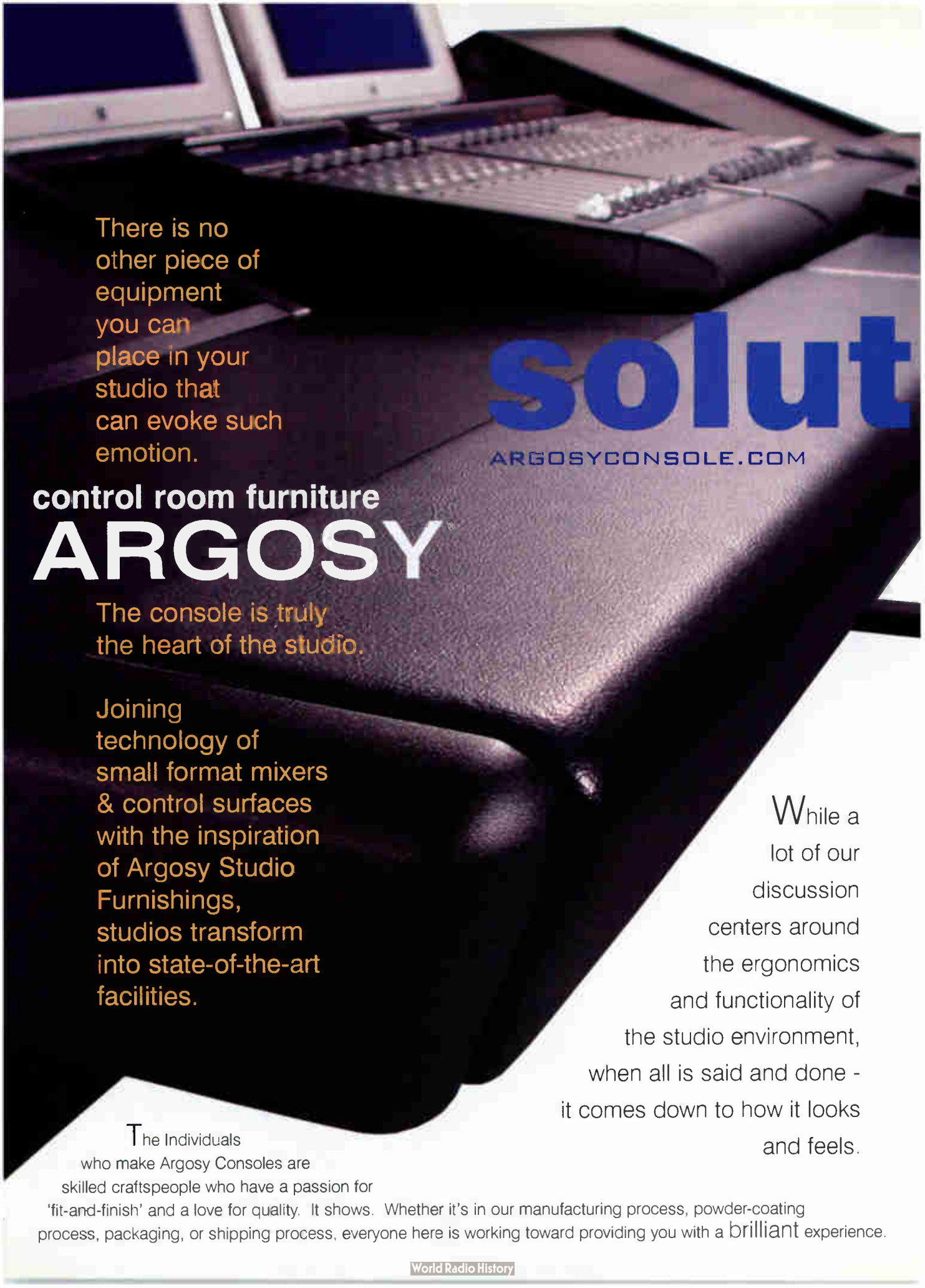
The Avant Plus post-production and film-dubbing console features Premix Masters, where multiple premix channels can be stacked beneath individual premix master faders; Super-Group, allowing multiple sets of controls to be grouped across the console; and PanPoint™ pen/tablet surround panning. Operators can quickly configure the 64x8 monitor matrix for bus/tape-switching confidence monitoring, record arming and source selection for multistem monitoring. The board can also be configured to support multiple operators, supporting feature-film productions with specialized music, dialog and effects mixer sections.



### Solid State Logic C100

Solid State Logic's C100 is a new-generation digital broadcast console designed for use in critical on-air production environments. This small-footprint, assignable console is specifically designed for on-air studio applications such as news and sports, as well as live-to-tape talk and game shows, where fast and efficient handling of sources and destinations are important aspects of the operator's role. The transition to digital broadcast is fully addressed by the C100, delivering operational efficiency in a cost-effective, scalable solution. NAB Booth: N2512.

Spring Hill Rd.  
Begbroke, Oxford, England OX5 1RU  
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www.solid-state-logic.com



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speaker stands  
accessories

High-powered desktop controllers are no longer relegated to 'less than impressive' work areas. Argosy studio furnishings give a proper solution. The 90 Series console enclosure offers a custom furniture look to studios, at an incredible value and in a very short amount of time. For Argosy, success has been a matter of providing innovative, cost-effective solutions to unique control room furniture challenges

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## Peterson V-SAM Strobe Audio Metronome

The V-SAM's Tuner mode expands upon the Peterson VS-1 with a wider variety of alternate temperaments. Users can create/store custom temperaments. A built-in speaker/line out/headphone jack is included for the 10-octave tone generator. These new features allow tuning and real-time scale measurement for stringed instruments, such as violin, cello and concert harp, as well as brass and woodwinds in all keys and guitar and bass. An audio/visual metronome allows tap or dial-in tempo, adjustable beats per measure, beat subdivisions and adds a stopwatch function. An Intro feature silences the audible output after a preselected number of measures—perfect for setting a clean start and tempo without being handcuffed to the metronome beat for an entire song. Powered by two AA batteries or included DC adapter. MSRP: \$399. 11601 S. Mayfield Ave. Alsip, IL 60803 708/388-3311; fax 708/388-3341 www.petersontuners.com



## Princeton Digital Reverb 2016

Princeton Digital's first product, the Reverb 2016, re-creates the legendary reverb algorithms of Eventide's SP2016: Stereo Room, Room Reverb and High Density Plate. Every aspect of the original effects has been duplicated, including every detail of the user parameters. While the algorithms are identical to the originals, the hardware implementation is state-of-the-art, with features that include 24-bit DSP, 24-bit analog audio I/O, digital I/O and MIDI interface. 433 Liberty Ave. Little Ferry, NJ 07643 www.princetondigital.com

## Rane DEQ 60 Equalizer

The Rane DEQ 60 is the first graphic EQ that's free of filter interaction and ripple. The secret to this breakthrough is Rane's patent-pending Perfect-Q DSP algorithm. The DEQ 60 uses a familiar analog user interface, which controls a powerful DSP engine. Additional features include Proportional-Q mode, 3-band accelerated-slope tone controls, low- and high-cut filters, and input and output level controls with precise I/O metering. MSRP: \$999.



## Rane RPM 22

The RPM 22 processor is a one-box solution for audio processing for broadcast. It is a fully programmable DSP using Rane's Drag Net software. Two analog inputs plus stereo AES3 digital input and two analog outputs plus a stereo AES3 output allow for use in digital or analog signal chains (or both). Processing options include simultaneous audio delays, parametric EQs, compressors, limiters and AGC.

MSRP: \$1,749.  
10802 47th Ave. West  
Mukilteo, WA 98275  
425/355-6000; fax 425/347-7757  
www.rane.com

## QSC Audio DSP-4

Featuring enhanced A/Ds and D/A's, plus XLR connectivity, the DSP-4 is a compact module offering two channels of independent DSP that attaches to the back of many QSC amplifiers. Following the DSP-3, each channel handles signal-processing functions, including high- and lowpass crossover filters, shelf filters, delay, compression, limiting, parametric filters, two-to-one mixer, splitter, mutes, 0.1 dB attenuation steps, polarity reversal and selectable 1V/3V input sensitivity. Configuration is handled by QSC's Signal Manager software application. 1665 MacArthur Blvd. Costa Mesa, CA 92626 800/854-4079; fax 714/754-6174 www.qscaudio.com



## SPL Kultube Model 2049

Extremely versatile Class-A stereo tube compressor for all recording and mixing applications. Discrete gain stages, adjustable tube saturation, selectable hard/soft knee, individually switchable (attack/release), user-tunable Progressive Time Control function, decompression mode (upward expansion), switchable sidechain inputs with monitoring, Slave mode for multichannel operation, large backlit VU meter, relay hard bypass, heavy-duty construction, optional Lundahl I/O transformers and optional 24/96 digital I/O. Bandwidth: 10-100K Hz; THD+N: 83 dB; S/N: 90 dBu. MSRP: \$1,999.

## SPL De-Esser/Model 9629

Dual-channel auto-dynamic de-esser based on unique, proprietary circuitry. Removes excess sibilance by way of phase cancellation with virtually no audio side effects. Critically acclaimed by press and professionals for accuracy, ease of use and musicality. Automatic threshold adjustment compensates for varying input level. Male/female center-frequency switches, S-Reduction controls, LED, fully balanced, relay hard bypass, heavy-duty construction, XLR and 1/2-inch connectors. Bandwidth: 20-50K Hz; THD: 0.002%; S/N: -98 dBu. MSRP: \$699. 2498 Rikkard Dr. Thousand Oaks, CA 91362 805/241-5140; fax 805/435-7455 www.spl-usa.com



## TC Electronic P2 Level Pilot

The P2 is a set-and-forget Level Pilot and limiter for the post-production and broadcast industries. Single-stroke level control for any user, with Total Lock ability makes the P2 Level Pilot the ultimate choice for anyone concerned with audio dynamics—experts as well as operators not specialized in audio. The P2 Level Pilot comes factory-loaded with a host of international standard presets, ensuring compliance to audio standards, maximum loudness, spectral balance and total level control. NAB Booth: N2926. 742-A Hampshire Rd. Westlake Village, CA 91361 805/373-1828; fax 805/379-2648 www.tcelectronic.com

## TL Audio S051 Ivory 2 Series

S051 is a front-end processor that combines a preamp, compressor, equalizer, noise gate and an optional digital output. The compressor section includes hard/soft-knee modes, and

the 4-band equalizer section features an improved optical gate. The S051 has six tube stages, using three twin-triode ECC83/12AX7A tubes on a stabilized 150 VDC power supply. One stage is located in the preamp, one in the compressor gain control circuit and four in the EQ section. MSRP: \$749.



## TL Audio Ivory S052 Stereo Valve Processor

The Ivory S052 features two independent channels, each providing a tube preamp, tube compressor, parametric tube EQ and a brickwall limiter. The unit can be used in dual-mono or stereo-linked modes, whereby the control of the compressor, EQ and limiter functions is passed to channel A, thus making it the ideal stereo front end and mixdown device. Flexible VU metering is provided, as is an optional 24-bit digital output card. NAB Booth: N2146. Distributed by HHB 743 Cochran St, Buildings E & F Simi Valley, CA 90365 805/579-6490; fax 805/579-8028 www.tludio.co.uk



## Waves Broadcast and Production Bundle

Featuring Waves critically acclaimed Renaissance Maxx, Masters and Restoration processors, this bundle includes limiters, compressors, EQs, filters, noise removal, reverb, bass enhancement, de-essing and voice processing. Allows you to clean up audio, get killer voice-overs, create audio effects, fatten the sound, have the best level control available and create superior feeds and mixes. These are the world-class standard processors used in Hollywood, and in audio and music production the world over. Retail: \$4,800 TDM; \$2,400 Native.



## Waves 360° Surround Tools

The essential package to calibrate your surround system and produce proper surround mixes using Pro Tools. Waves Surround Bundle is intuitive, natural and compliant with industry standards. Includes tools for studio calibration and bass management through localization and enveloping spatialization, 360° of rotation, width, distance panning, reverberation and flexibly linked dynamics. All tools integrate seamlessly with multichannel I/O setups. Retail: \$2,400 (TDM/Mac only). 306 West Depot Ave., Suite 100 Knoxville, TN 37917 865/546-6115; fax 865/546-8445 www.waves.com

# LET THE **REVOLUTION** BEGIN

Apogee's All New C777 Digital Clock...  
So Advanced, So Essential, We Put it in it's Own Box.



## **BIG BEN**

192 kHz Studio Time Piece

### Maximized Jitter Correction with Apogee's new C777 Clock

The new Apogee, C777 clock uses the most advanced Direct Digital Synthesis (DDS) technology available. With this innovation, Big Ben offers incredible stability and accuracy in the digital studio. In fact, the C777 is so powerful that it provides maximum jitter reduction even during varispeed operation.

### Added Flexibility with Format Conversion

Big Ben gives you the option of real-time format conversion. Solve any digital transfer problem quickly from S/PDIF to AES, AES to ADAT, ADAT to S/PDIF, etc.

### Intelligent Clocking with Apogee's "Adaptive Loop Filtering" (ALF)

With Apogee's Adaptive Loop Filtering, Big Ben is able to dynamically adjust to any input source with excessive jitter and regenerate the signal using it's own internal crystal as the reference.

### "SureLock" Never Lose a Take

Once Big Ben achieves a precise and stable lock, any dropouts in the external clock can be compensated for with "SureLock" which will remain fixed on the last relevant frequency provided by the source.

### The End of Termination Issues

Big Ben provides a way to visually check for proper termination of word clock signals. At a glance, you can see which devices are terminated or not and make corrections before they become problems.

### Firewire for the Future

With an eye toward future connectivity standards, Big Ben has room to grow with a Firewire card option that will provide clocking and format conversion functionality to Firewire equipped devices.

## BIG TIME FEATURES

- ▶ Inputs and Outputs: AES, S/PDIF, Optical I/O - word clock/video In - 6 word clock outs
- ▶ Real-time format conversion
- ▶ Unprecedented jitter reduction
- ▶ Optional Firewire connection
- ▶ Fail safe lock to external sources
- ▶ 3-stage termination sensing
- ▶ Real-time varispeed capability
- ▶ Video sync at all sample rates



Find out more at:

[www.apogeedigital.com](http://www.apogeedigital.com)  
or Call: 310 915.1000

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# The Apogee Mini-Series

Professional Audio Solutions, TO GO!

## Mini•Me



### 2-Channel 24/96 A/D Converter Mic/Instrument Preamp

#### Take your studio on the road...

Winner of EQ magazine's 2002 Blue Ribbon Award, the Mini-Me allows you to take Apogee quality anywhere. Mini-Me features two premium mic/instrument preamps and line level inputs. And you can record with confidence using "Push-It"™, a unique new 3 curve stereo comp/limiter. Push-It is ideal when you need extra punch or require a safety net when recording live. Mini-Me is equipped with USB for a direct connection to your laptop with a direct/return monitor.



#### FEATURES

- ▶ Two channels of Apogee 24-bit, 96 kHz A/D conversion, top-quality 2-ch mic/instrument preamps and line-level in
- ▶ Plug-and-play low-latency USB I/O connects directly to any USB equipped computer
- ▶ AES/EBU and S/PDIF digital outputs
- ▶ Headphone output with Level and Direct/USB Return Mix knobs
- ▶ Apogee Soft Limit plus Push-IT™ – a unique new multi-curve comp/limiter
- ▶ Apogee's UV22 High Resolution for flawless 16 and 20 bit output

## Mini•DAC



### 2-Channel 192 kHz D/A Converter

#### A reference D/A for anywhere...

With Mini-DAC, the ideal, portable companion to Mini-Me, you can hear exactly what you are committing to while recording. Mini-DAC's built in analog output control gives you the ability to connect directly to powered monitors for the most faithful reproduction of your audio during mix or playback or with a premium home audio system. You can also use Mini-DAC's powerful "Digital-Thru-Mode" to connect any 2-channel digital device like Rosetta, Trak2, and, of course, Mini-Me to your computer.

#### FEATURES

- ▶ Two channels of Apogee D/A conversion at up to 192 kHz
- ▶ Inputs include AES (single & double wide), Optical (ADAT,S/MUX & S/PDIF), S/PDIF Coax, & USB
- ▶ Analog Output level control for direct connection of powered monitors
- ▶ Low-current, low-voltage - ideal for location/ENG
- ▶ Digital-thru-mode adds USB functionality to any digital device including Apogee's Mini-Me, Trak2 and Rosetta

Find out more at:  
[www.apogeedigital.com](http://www.apogeedigital.com)  
 or Call: 310 915.1000

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## Signal Routers & Switchers



### Audioarts Engineering ADR-32 Digital Audio

Compact rackmount digital audio router with front-panel X-Y control and built-in monitor speaker. Interfaces with Wheatstone and Audioarts digital console source display strips. Can be populated with modular I/O cards (eight inputs per AES digital card, four stereo inputs or outputs per analog card) for up to 32x32 matrix. Two RS-485 ports for communication with X-Y controllers, consoles and automation systems. Easy configuration via Wheatstone X-Point software and optional event scheduler software available. NAB Booth: N2804.

600 Industrial Blvd.  
New Bern, NC 28562  
252/638-7000; fax 252/635-4857  
www.audioarts.net

### CM Labs SixtyFour

The SixtyFour is a 32x32 studio router with programmable level control. The two-rackspace unit's 32 ins and 32 outs (all on D25-sub connectors) offer 1,024 instantly recallable crosspoints for fast, patchcord-free production.

Box 111749  
Nashville, TN 37222  
615/331-3002  
www.cmlabs.net

### Dangerous Music Monitor

Though there are options for digital routing, conversion and analog switching available as stand-alone units, a system that integrates them in one package has not been available until now. The Dangerous Music Monitor incorporates four distinct functions, seamlessly integrated into a two-rackspace package, featuring analog switching, digital switching, onboard D/A conversion and comprehensive monitoring functions. It is designed to aid studio owners in their quest to access all of their equipment in a simple, intuitive way, while delivering superb sonic performance.

154 East 2nd St., 4th Floor  
New York, NY 10009  
212/533-4197; fax 212/979-1591  
www.dangerousmusic.com

### Euphonix-Phillips Jupiter Router Connectivity

Two-way, high-speed control connectivity between the Euphonix Studio Hub digital audio router and third-party routing environments, such as the Phillips Jupiter router control system. NAB Booths: N3014 and MM203.

220 Portage Ave.  
Palo Alto, CA 94306  
650/855-0400; fax 650/855-0410  
www.euphonix.com



### Logitek Electronic Systems Audio Engine

Major updates for Logitek's Audio Engine include new audio cards and Version 3 firmware, which implements direct rout-

ing capabilities of new audio cards, provides more stand-alone router functions, expands mix-minus buses to 24 and now provides eight stereo mix buses. NAB Booth: N2931.

5622 Edgemoor  
Houston, TX 77081  
713/664-4470; fax 713/664-4479  
www.logitekaudio.com



### Sierra Automated Systems 32KD With RIO Link

The 32KD digital audio network performs switching, mixing, level control, DSP and mix-minus functions with both analog and digital audio. The RIO Link remote input/output chassis replaces more than 100 twisted pair to connect to the system remotely with fiber or a single Cat-5. SAS switchers use a variety of control methods, including rackmount and console-mount control panels, as well as "soft" panels and computer control. Control panels for intercom and IFB are also available. NAB Booth: N1813.

2625 North San Fernando Blvd.  
Burbank, CA 91504  
818/840-6749; fax 818/840-6751  
www.sasaudio.com

### Sigma Electronics OctaStream

Sigma Electronics' OctaStream is a new family of AES digital audio signal-management products designed to cost-effectively address 8-channel audio and the integration of multichannel digital audio into a DTV stream. Products include the DA5320 Mixer and Subframe Router, DA5315 Variable Delay Compensator, DA5325 Sample-Rate Converter and the SG5605 Audio Reference Generator. The series is designed for Sigma's new S5000 signal-management frame. The new Sigma modules are fully compatible with NVISION NV500 enclosures.

### Sigma Electronics DA5325

Sample-rate converter serves as the audio equivalent of a video frame synchronizer. The module is designed to retim four asynchronous AES inputs to a local reference while maintaining perfect phase. The DA5325 allows selectable conversion of sample rates from 28-108 kHz to 44.1/48/88.2/96 kHz, or can be steered by an external reference. List: \$1,495.

### Sigma Electronics SG5605

Audio-reference generator introduces a unique method of tracking audio channels by generating AES tone/silence with eight audible channel identifiers. It can operate as a stand-alone reference generator, or it may be locked to a master video reference for complete system synchronization. The unit is capable of generating simultaneous outputs of tone and silence, and features a user-selectable ID timing period that can be turned on or off on a channel-by-channel basis at the user's discretion. List: \$1,495. NAB Booth: SU4664.

1027 Commercial Ave.  
East Petersburg, PA 17520  
717/569-2681; fax 717/569-4056  
www.sigmaelectronics.com

### Z-Systems OptiPatch+

The OptiPatch+™ Matrix Audio Router accommodates 15 sets of either optical 8-channel ADAT Lightpipe or optical 2-chan-

nel S/PDIF ports, for a total I/O capacity of 120 asynchronous 24-bit digital channels at multiple sample rates. Users simply connect rear-panel inputs and outputs to digital audio sources and destinations, press a single front-panel button and the patch is made. Up to 99 I/O crosspoint routing patterns can be stored and recalled by the unit.



### Z-Systems Detangler Pro

The Detangler Pro™ Audio Router z-256.256r accommodates up to 256 stereo/2-channel inputs, routing in any combination to a total of 256 outputs. Asynchronous sources and destinations can be either 24-bit AES/EBU or S/PDIF format, at sampling rates to 192 kHz and beyond. I/O crosspoint assignments are selectable via a dedicated serial port, using either the firm's dedicated hardware remote or networked Mac and Windows control software. The z-256.256r is modular in increments of 16x16.

4641-F N.W. 6th St.  
Gainesville, FL 32609  
352/371-0090; fax 352/371-0093  
www.z-sys.com

## Studio Monitors

### Alesis ProActive 5.1

The Alesis ProActive 5.1 system is a complete powered 5.1 surround monitoring system with analog and digital I/O, onboard DVD surround decoding, five satellite speakers, a compact subwoofer (housing 450 watts of system amplification) and wireless remote. Retail: \$399.

12555 Jefferson Blvd., Suite 285  
Los Angeles, CA 90066  
310/821-5000; fax 310/306-2650  
www.alesis.com



### Bag End Loudspeaker Systems M6

The M6 Near-Field Monitor is a very compact package (14x9x9 inches, HxWxD), weighing just 15 pounds. It's loaded with a 6-inch, high-performance coaxial driver and a 1-inch, soft-dome neodymium tweeter. Impedance: 8 ohms nominal. Frequency response: 60-20k Hz, ±3 dB. Sensitivity: 1 watt for 87 dB SPL at 1 meter. Retail: \$596.

22272 North Pepper Rd., Unit D  
Barrington, IL 60010  
847/382-4550; fax 847/382-4551  
www.bagend.com



## Blue Sky ProDesk

ProDesk is a 2.1 system consisting of two Blue Sky SAT 5 bi-amplified (2x60-watt) Satellite speakers and a complementary powered Sub 8 (100-watt) subwoofer. Employing Blue Sky's proprietary computer-optimized crossover and bass-management networks, the ProDesk delivers seamless full-range audio from the subwoofer to the main monitors with smooth on- and off-axis frequency response. MSRP of the 2.1 System is \$1,195; complete 5.1 system, including Bass-Management controller: \$3,045.

## Blue Sky Sky System One

Sky System One is a 2.1 THXpm3-approved monitoring system consisting of two Blue Sky SAT 6.5 bi-amplified (2x100-watt) Satellite speakers and a complementary powered Sub 12 (200-watt) subwoofer. Employing Blue Sky's proprietary computer-optimized crossover and bass-management networks, the system delivers seamless full-range audio from the subwoofer to the main monitors with smooth on- and off-axis frequency response. MSRP of the 2.1 System is \$1,695; complete 5.1 system, including Bass-Management controller, \$3,995. 200 Sea Lane Farmingdale, NY 11753 631/249-1399; fax 631/753-1020 www.abluesky.com



## Dynaudio Acoustics Air 20

The Dynaudio Acoustics AIR 20 is the latest addition to the revolutionary AIR Series and the first three-way design to take advantage of AIR technology. Combining brand-new Dynaudio 221 (two-to-one) technology with cutting-edge digital TC technology, the AIR 20 defines new standards for performance and precision in three-way powered monitors. AIR 20 integrates into any AIR network, and thus provides all of the features and system conveniences known from the AIR 6 and AIR 15 systems. NAB Booth: N2926. 742-A Hampshire Rd. Westlake Village, CA 91361 805/373-1828; fax 805/379-2648 www.dynaudioacoustics.com



## Ediol MA-20D

Powered (20Wx20W) digital reference monitors with S/PDIF digital (co-ax and optical) and analog (1/4-inch and RCA) inputs. Two independent volume controls and a 1/4-inch headphone out are also standard. NAB Booth: 5L3517. 425 Sequoia Dr., Ste. 114 Bellingham, WA 98226 360/594-4273; fax 360/594-4271 www.ediol.com

## Event Tuned Reference 8

This two-way, bi-amplified, direct-field monitor system features an 8-inch mineral-filled polypropylene cone woofer with 1.5-inch high-temperature voice coil; 1-inch Ferrofluid-cooled, natural soft-dome tweeter; magnetic shielding; >108dB SPL output; 35-20k Hz response; 2.6kHz active fourth-order asymmetrical crossover; variable input sensitivity; and balanced (TRS and XLR) and unbalanced RCA inputs. Protection: RF interference, output-current limiting, over-temperature, turn-on/off transient and subsonic filter. Box 4189 Santa Barbara, CA 93140-4189 805/566-7777; fax 805-566-7771 www.event1.com

## Genelec LSE Series Subwoofers

Genelec's new LSE Series consists of four new subwoofer models designed to create very dynamic, extremely efficient and highly configurable full-range systems for critical monitoring applications. The radical LSE cabinet technology virtually eliminates nonlinearities from port turbulence associated with traditional vented designs. The LSE range includes the 8-inch 7050A 2-channel system for use with a pair of 1029A/2029A/B monitors, and the 10-inch 7060A, 12-inch 7070A and dual 12-inch 7071A multichannel units, featuring an integrated 6.1 bass manager. NAB Booth: N1837. 7 Tech Circle Natick, MA 01760 508/652-0900; fax 508/652-0909 www.genelec.com



## KRK Systems Exposé E12DSP

The E12DSP is a complete and refined active three-way system, featuring low distortion, incredible imaging and increased power handling. From its digital crossover to the Kevlar cones and titanium dome, the KRK signature sound is truly apparent. Woofer: 12-inch, high-strength paper impregnated cone. Mid: 5-inch Kevlar cone. Tweeter: 1-inch titanium inverted dome. Response: 29-22k Hz, ±2dB. Amplification: HF 120W @ 8 ohms, MF 200W @ 8 ohms, LF 400W @ 8 ohms. Distributed by Stanton Group 3000 S.W. 42nd St. Hollywood, FL 33312 954/689-8833; fax 954/689-8460 www.krksys.com



## Tannoy Ellipse 8 And 10 Near-Fields

Building on its award-winning technologies in loudspeaker design, Tannoy continues to develop its Ellipse Range, the first of an entirely new generation of studio monitors. The Range now consists of the Ellipse 8 and Ellipse 10, offering a choice of SPL capabilities and low-frequency performance. Ellipse 8 offers a frequency response of 40-50k Hz (±2 dB) and a maximum SPL of 112 dB. Ellipse 10 offers a frequency response of 30-50k Hz (±2 dB) and a maximum SPL of 114 dB.



## Tannoy ST50 SuperTweeter

Tannoy's ST50 represents the next step in the development of the SuperTweeter, leading from the original ST100. Tannoy's ST50 SuperTweeter extends the listening experience to a far wider bandwidth range than is currently possible with conventional loudspeakers. Operating between the roll-off point of the existing loudspeakers and 54 kHz, the ST50 accurately reproduces the leading edge of individual notes, transient information and rich harmonics beyond the range of human hearing for pure tones. NAB Booth: N2052. 335 Gage Ave., Suite #1 Kitchener, Ontario Canada N2M 5E1 519/745-1158; fax 519/745-2364 www.tannoy.com

## Truth Audio TA-1A

Building an accurate mix is the most common and important goal for every engineer. The tools to accomplish this task are accurate monitoring systems. We gave our company the name Truth Audio, because we feel our company is the first that offers an accurate, truthful translation between the recorded source, the studio monitors and your ears. The Truth Audio studio monitors may not be what you want to hear, but what you need to hear! 129 Sugar Cove Rd. 32459 Santa Rosa Beach, FL 32459 973/728-2424; fax 973/728-2931 www.truthaudio.com





### Visioneering Design Tesseract LMH-2 Loudspeaker

The LMH Series high-power, three-way, tri-amplified loudspeaker systems—designed and TMH-qualified by Tomlinson Holman—are intended for use in pro screening rooms, dubbing theaters, film and digital cinema theaters, and high-end home theaters. Manufactured by Visioneering Design, the Holman custom-designed crossover divides the main screen channels into low, mid and high-frequency outputs for feeding the tri-amped LCR speaker cabinets. TMH integrated bass management is featured in the crossover design. Price: \$18,000 for three channels, including crossover.  
9666 Owensmouth Ave., Unit Q  
Chatsworth, CA 91311  
818/882-7271; fax 818/882-4582  
www.visioneeringdesign.com

### Westlake Lc24.75

This two-way, bass-reflex loudspeaker for center-channel and low-profile stereo and multichannel applications has a compact, dual-ported enclosure with twin 4-inch woofers and a 1/2-inch soft-dome tweeter. Frequency response: 65-20k Hz  $\pm 3$ dB with a sensitivity of 89 dB/1M for 2.83V input. The Lc24.75 features extensive electro-mechanical and acoustical dampening, point-to-point wiring and magnetically shielded drivers. Available individually or in pairs.  
2696 Lavery Ct., Unit #18  
Newbury Park, CA 91320  
805/499-3686; fax 805/498-2571  
www.westlakeaudio.com

### X-Vision Audio Mini Owl

Powered near-field studio monitors capable of multiformat audio referencing from one single enclosure. Single-point sound contributes to increased intelligibility and high-resolution imaging never before possible.

### X-Vision Audio Pink

Near-field left-right monitors powered by 80 watts to each of the two components in these shielded and extremely flat enclosures. Very sweet-sounding and easy on the ears, even after many hours of listening!  
5111 Market St.  
Boardman, OH 44512  
330/259-0308; fax 330/259-0315  
www.xvisionaudio.com

## Sync, Control & Automation Products



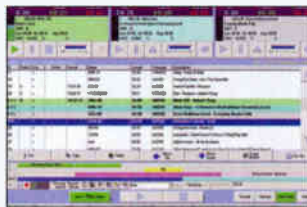
### Apogee Electronics Big Ben

Apogee's superior clocking technology made available in a revolutionary stand-alone master clock. Features: AES, S/PDIF, optical I/O; Word Clock/Video In; six Word Clock Outs; optional FireWire connection; real-time format conversion; Direct Digital Synthesis (DDS) using Apogee's C777 clock technology up to 192 kHz; Adaptive Loop Filtering (ALF) for minimum jitter; three-stage termination sensing for each wordclock out-

put; and Sure Lock fail-safe locking to external sources. NAB Booth: SL830.  
3145 Donald Douglas Loop South  
Santa Monica, CA 90405  
310/915-1000; fax 310/915-7420  
www.apogeedigital.com

### Blue Sky BMC (Bass-Management Controller)

The BMC offers affordable, high-performance 5.1 bass management in a convenient single-rackspace chassis that includes a full-function wired remote control. Designed for professional applications, such as surround music or post-production, the Blue Sky BMC is easy to use and features fully balanced inputs/outputs. The BMC includes all functions needed for proper bass management and multichannel volume control. Retail: \$725.  
200 Sea Lane  
Farmingdale, NY 11735  
631/249-1399; fax 631/753-1020  
www.abluesky.com



### Broadcast Software International Simian

Simian digital automation has a wide array of features suitable for music-on-hard drive, satellite automation and live assist. Voice-tracking is a breeze, and Simian uses Windows audio file formats, so it's compatible with most audio editors and sound cards. Simian has FlexTime, streaming record and an import filter that works with virtually all traffic systems. Simian is just \$1,499, and comes with one year of standard support. NAB Booth: N2654.  
1925 Bailey Hill Rd., Suite A  
Eugene, OR 97405  
541/338-8588; fax 541/338-8656  
www.bsiusa.com



### JLCooper CS-32 MiniDesk

JLCooper announces the CS-32 MiniDesk, the world's smallest compact controller for DAWs, including Pro Tools, Nuendo, Cubase SX, Xtrack, Soundscape, Digital Performer and others. This subminiature control console has 32 physical faders, each with dedicated buttons for mute, solo, track arming and more. It also offers transport controls, function keys, a weighted jog/shuttle wheel and rotary knobs (for controlling pan, EQ and plug-ins), and a footswitch connector for start/stop and punch. The CS-32 packs all this into a 9x7.5-inch package.  
NAB Booth: SL3626.  
142 Arena St.  
El Segundo, CA 90245  
310/322-9990; fax 310/335-0110  
www.jlcooper.com



### Martinsound MultiMAX EXR

MultiMAX EXR is a competitively priced version of Martinsound's popular multiformat surround monitor controller. The company has achieved major cost savings by centralizing all control functions on the full-featured remote controller that is included with MultiMAX EXR as standard. MultiMAX EXR offers all of the features and functionality of MultiMAX EX, such as management of multiple loudspeaker systems, including a main system of up to eight speakers, encoder/decoder monitoring and downmixing. MSRP: \$3,195. NAB Booth: N2048.  
1151 West Valley Blvd.  
Alhambra, CA 91803  
800/582-3555; fax 626/248-3092  
www.martinsound.com



### Rosendahl Studioteknik Nanoclocks

Nanoclocks is a wordclock distributor with an integrated audio master clock generator. The unit has two wordclock inputs (A and B) and 12 outputs that are controlled by a programmable output matrix. LEDs show incoming sample rates for each input and routing status for the outputs. Crystal accuracy is  $\pm 5$  ppm, and clock jitter is  $<10$  picoseconds RMS. Wordclock inputs are transformer-isolated to reduce cable interference significantly. MSRP \$1,299.



### Rosendahl Studioteknik Nanosyncs V3

The Nanosyncs V3 makes four major adaptations to the original Nanosyncs' design. An expanded feature set includes four setups, permitting the assignment of a specific sample-frequency multiplier to the wordclock outputs. Sample rates from 44.1 to 192 kHz and Super Clock are supported. AES/EBU and S/PDIF outputs now support 88.2 and 96 kHz. Clock jitter is  $<12$  picoseconds RMS, and random jitter amplitude is  $<200$  picoseconds in all operation modes. MSRP \$1,599. NAB Booth: N2146.  
Distributed by HHB  
743 Cochran St., Buildings E & F  
Simi Valley, CA 90365  
805/579-6490; fax 805/579-8028  
www.nanosyncs.com



### Tascam DS-M7.1 Surround Monitor Controller

The DS-M7.1 is a surround monitor controller adding multi-speaker monitoring control to digital consoles with only eight output buses. By duplicating the output buses, the DS-M7.1 can route a signal to both stem recorders and multiple amp/speaker combinations. The DS-M7.1 operates at 44.1/48/88.2/96kHz sampling rates, features pull-up/down operation, eight channels of TDIF, AES/EBU and ADAT I/O and

# STUDIO PR

After years of leading the professional studio monitor market with our 20/20bas™ model, we challenged our engineers to come up with a totally new design that would surpass anything they had done to date—a design that would bring a whole new dimension to the direct field monitoring experience.

## Tight, Punchy, “In-Your-Chest” Bass

First on their list was a commitment to provide unsurpassed low frequency response. That spawned the development of a custom 8” polypropylene cone driver (complete with neodymium magnet)—an exceptional performer that boasts ultra-low distortion characteristics, incredible strength, and more output per watt than traditional woofer designs.

Next, the dual ports. Hidden behind the front baffle is a unique port design that provides for exceptional low frequency coupling into the room, low distortion output, and superior low frequency transient response. So you can truly feel the tremendous low frequency response (a remarkable 32Hz)—not just hear it.

The whole system is encased in cabinets constructed from 3/4” MDF, which insures that the sound emanating from the speakers is free from artificial tones created by unwanted cabinet resonance.

The combination of the drivers, ports, and cabinet allow the Studio



Precision 8 to reproduce percussive and bass instruments without introducing new overtones or artificially-hyped frequencies. Put another way: You get true, accurate, low end.

## Soaring Highs, Expansive Soundscape

Our new soft dome neodymium high frequency driver produces a broad, flat

# A NEW DIMENSION IN A

# PRECISION 8



radiation pattern that doesn't require corrective equalization (which adds tonal coloration and robs an amplifier of headroom). The driver creates an expanded stereo soundstage that's just

plain *enormous*, and it delivers incredibly precise imaging, with even subtle panning movements easily discernable. The sweet spot? Big enough for the whole band *and* the producer.

## High-Powered Performance

The biamplified Studio Precision 8 sports our most powerful amplifier ever: 280 watts per speaker (200 watts LF driver / 80 watts HF driver)—so you'll always have plenty of headroom for even the most demanding applications. The amplifier circuitry utilizes low-noise semi-conductors and audio-grade film capacitors, giving the system enhanced dynamic range as well as exceptionally low noise and low distortion characteristics. We even used toroidal transformers for greatly reduced mechanical and electrical noise.

Topping things off: continuously variable input sensitivity, low frequency, and high frequency trim controls. A switchable 80Hz high pass filter for bass management in surround-sound applications. And for easy connection, both balanced XLR and 1/4" inputs.

## Hear for Yourself

We're confident that once you hear your mixes on a Studio Precision 8 biamplified system, you'll never want to use ordinary monitors again. In fact, we invite you to A/B the Studio Precision 8 with your current speakers, or for that matter, any monitor on the market. Then we'll just sit back and watch you grin.

# STUDIO MONITORING

**EVENT**  
ELECTRONICS

P.O. Box 4788  
Santa Barbara, CA  
93140-4788  
Voice: 805-966-7777  
Fax: 805-966-7777  
E-mail: [info@eventaudio.com](mailto:info@eventaudio.com)  
Web: [www.eventaudio.com](http://www.eventaudio.com)

## ASG MAST

### Managed Antenna System Technology

The MAST line of wireless systems accessories from the Audio Specialties Group presents a systematic approach to solving wireless equipment coverage problems. Each model was specifically designed to overcome challenges in permanent and temporary wireless communication applications. Models are available for receiving antenna amplification and combining with filtering, transmit antenna combining, a phantom-powered receive preamplifier, and the Auto-Power-Match in-line phantom-powered, transmit cable loss compensator.

555 Herndon Parkway, Suite 135  
Herndon, VA 20170  
703/471-7887; fax 703/437-1107  
www.swl.com



## Microboards Print Factory

Microboards Technology has developed a CD/DVD inkjet printer with the highest throughput on the market. Targeted at users with high volume, fast-turnaround requirements, the printer is capable of 4800x1200 dpi print resolution, the highest available in CD and DVD printing. Microboards combined its patented autoloading system with HP's new inkjet printer engine to give users the highest output possible, both in image resolution and print speed. NAB Booth: SL1652.

8150 Mallory Ct.  
Chanhassen, MN 55317  
952/556-1600; fax 952/556-1620  
www.microboards.com



## Simon Systems SLAM-2000

The SLAM records and plays back eight CD-quality audio channels, integrated DMX512 lighting and character animation control, Ethernet, and serial and parallel interfaces. The all solid-state digital design has no tape or moving parts. Applications include robotics, animated characters, amusement parks, museums and public safety. The patented technology offers a tremendous amount of integration and versatility at a much lower cost than an equivalent discrete design.

2985 East Hillcrest Dr., #204  
Thousands Oaks, CA 91362  
805/777-1084; fax 805/777-1186  
www.skeng.com

## Sonifex HY-03 Telephone Hybrid

The HY-03 features include fully automatic operation adapting to varying line conditions with automatic signal-limiting local and remote line-hold switching, integrated auto answer after a predetermined number of rings, a balanced mic/line input, low-impedance balanced output with output gain adjustment, line limiter, bandpass filter and output noise gate with preset threshold, providing low distortion crystal net audio. List: \$1,185. NAB Booth: N3201.

43 Deerfield Rd.  
Portland, ME 04101  
207/773-2424; fax 207/773-2422  
www.independentaudio.com



## Aviom A-16cs Control Surface

The A-16cs is an optional remote controller for the rack-mounted A-16R Personal Mixer. The A-16cs connects to an accessory port on the rear of the A-16R. A proprietary protocol is used to send control information from the A-16cs to its host. The A-16cs connects to the A-16R via the same Category-5 cables used elsewhere in the A-16 Personal Monitor Mixing System. It uses the same familiar button layout as the A-16 Personal Mixer. Retail: \$399.95 MSRP.



## My Dog Rax Steel Classic

The Steel Classic is the new cousin to our popular Classic Rack, but in striking stainless steel. Two-inch square tubing makes the frame, while a selection of natural woods are set into the sides and top. Available in 19- and 29-space models, with custom options available, such as drawers, lighting, etc.

Box 9814  
Newport Beach, CA 92658  
310/621-8871; fax 413/208-5135  
www.mydograx.com

## Oval Window Audio InfoLoop Receiver

InfoLoop is an induction loop transmitter/receiver system for cueing and hearing assistance. In-the-canal receivers are also available.

33 Wildflower Ct.  
Nederland, CO 80466  
303/447-3607; fax 303/447-3607  
www.ovalwindowaudio.com

## Simon Systems CB-4 Headphone Cue Box

The Simon Systems CB-4 (by Simon-Kaloi Eng.) has become a standard in the professional audio world. It allows up to four pairs of stereo headphones to be driven from the same audio power amplifier. Each output has its own custom-made, high-quality stereo volume control. A three-position switch selects from left, right or stereo mix. This feature facilitates the use of separate mixes, which are selectable by the artist.



## Aviom A-16

### Personal Monitor Mixing System

The A-16 Personal Monitor Mixing System is designed for creating custom monitor mixes for musicians performing live or working in the studio. It can be used with in-ear monitors, floor monitors or headphones. The system includes the A-16T Transmitter and the A-16 Personal Mixer. An unlimited number of Personal Mixers can be connected. Using Aviom's proprietary technology called A-Net, the A-16 transmits 16 channels of audio with virtually no latency over a single Cat-5 cable. The A-16T Transmitter is \$749.95; the A-16 Personal Mixer is \$439.95.

1157 Phoenixville Pike, Suite 201  
West Chester, PA 19380  
610/738-9005; fax 610/738-9950  
www.aviom.com

## CineMag

### Splitter/Coupling Line Transformers

The CMOL-3x600T2 and CMOL-2x600T2 are ultra-isolation ultrabalanced line splitter/audio line coupling transformers. They eliminate hum and buzz in long lines caused by ground loops and common mode signal pickup while maintaining excellent bandwidth and very low THD. CMOL-2x600T2 specs: CMRR better than 125 dB through 1 kHz; and 95 dB through 20 kHz. CMOL-3x600T2 specs: CMRR 120 dB at 60 Hz; 110 dB to 1 kHz; and 80 dB through 20 kHz.

9050 Independence Ave.  
Canoga Park, CA 91304  
818/993-4644; fax 818/993-4604  
www.cinemag.biz



## Studio 22 MusicTouch

A client/server-based solution, MusicTouch is the jukebox of the 21st century. Music is imported into the server and is available to all connected players. You can either import your own music into the system or subscribe to regularly updated MusicChannels. Touchscreen clients make it possible to freely design your music program on location with an interface that couldn't be simpler.

22 Schauinslandstrasse  
Karlsruhe, Germany 76199  
+49 1727303134; fax +49 7219883444  
www.musictouch.de

# Killer Tracks: On the Web, in Surround

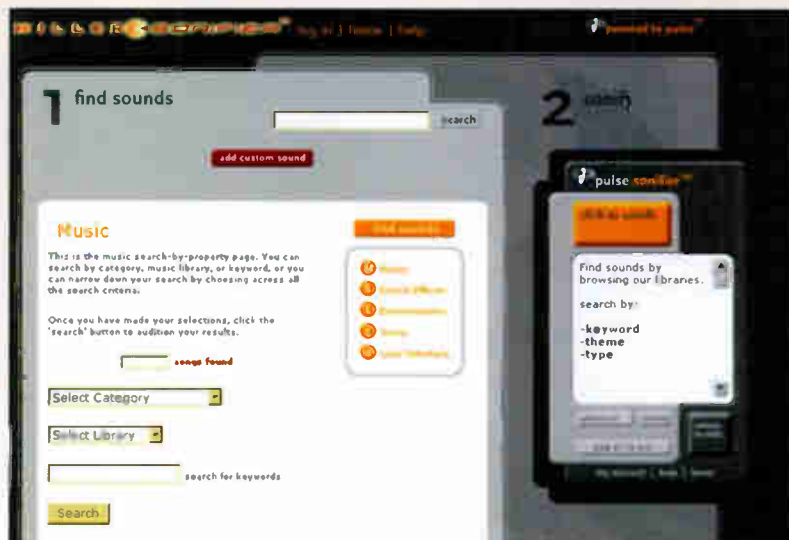
**K**iller Tracks ([www.killertracks.com](http://www.killertracks.com)) continues to set the standard for quality and excellence in production music, with 15 libraries and over 900 CDs. From full orchestral movements to musical cues and sound effects, Killer Tracks' music is used by many of the most prominent names in the TV/film, advertising, post-production, consumer goods and services-provider industries. Killer Tracks' client base includes the likes of media conglomerates such as Fox, Warner Brothers and ESPN, as well as many other major clients around the world. Killer Tracks' comprehensive collection has been featured in well-known productions such as *Saturday Night Live*, *American Idol* and *My Big Fat Greek Wedding*, to name a few.

Since its inception, Killer Tracks has consistently provided products



and services that are ahead of the technology curve, offering its clients the most advanced and convenient ways to experience unmatched music quality and service. With BMG MusicSearch ([www.bmgmusicsearch.com](http://www.bmgmusicsearch.com)), registered clients can search or browse all of the dynamic Killer Tracks libraries, as well as audition, license and download their ideal tracks online. BMG MusicSearch ensures quality, ease of use, speed and reliability, while making available features like online track searching, audio licensing requests and more.

Also pushing the technological envelope is Killer Sonifier ([www.killer-sonifier.com](http://www.killer-sonifier.com)), the company's recently



released breakthrough that takes the traditionally complex process of incorporating sound into a Website and makes it simple through an intuitive drag-and-drop interface. Killer Sonifier allows users to browse and collect sound files from a world-class library of bandwidth-optimized vocal cues, music, audio logos, sound effects, ambient environments and user-interface sounds. After dropping them onto their Website or other digital document, users can instantly preview and/or publish their audio-enabled pages. Killer Sonifier does not require any knowledge of complex Website design or programming, and therefore eliminates the need to hire a programmer. Killer Sonifier allows anyone to enhance their online advertising and branding efforts, and provide a more dynamic experience for Website visitors. Audio-enabled sites may assist potential customers, increase page views, boost sales and enhance presentations, among other benefits. Another technological innovation offered by Killer Tracks is the Ultimate FX Surround Sound Library, available for both Windows and Mac OS. Ultimate FX is a multimedia DVD that features an exclusive collection of premier-quality sound effects. All sounds are origi-

nal works, recorded in the field using six microphones for true 5.1 recording and mastered using multiple files and tracks. This process creates such a rich and textured effect that our stereo versions of these surround sounds are deeper and more resonating than any standard stereo effects library.

With products such as Ultimate FX and Killer Sonifier, Killer Tracks bolsters its position in the production music/sound effects market. Add an impressive world-class collection of CDs from both domestic and international libraries, and Killer Tracks stands out as an ideal solution for all audio-production needs. ♦

## KILLER TRACKS

Killer Tracks  
6534 Sunset Boulevard  
Hollywood, CA 90028  
323/957-4455; 800/4-KILLER  
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This surprisingly compact system delivers healthy doses [29Hz to 20kHz] of accuracy, dynamics and emotion in stereo or multichannel mode while saving precious control room real estate.

Surround yourself with satisfaction! Discover why GENELEC continues to lead the way in active multi-channel monitoring with the 1029.LSE™ PowerPak and let your satisfaction get the best of you.



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