

A supplement to **BroadcastEngineering** - June **2 0 0 5**

NSPECIAL ABREPORT

NEW PRODUCTS

Connecting
to the future
of broadcast
technology



THIS IS NOT AN AUDIO CONSOLE.

D-9

Audio Control



IT'S A DIGITAL CONTROL SURFACE

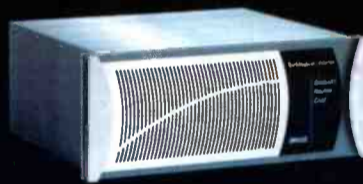
THE D-9 interfaces to WHEATSTONE's router-based BRIDGE MIXING SYSTEM—a digital network that lets multiple control surfaces share common audio resources, accessing signals and sending mixes throughout your facility.

Production



OTHER SURFACES
can share
common audio
resources

Studio2



I/O CONNECTIONS can be at
point-of-use and accessed by
any control surface

DEDICATED DSPs and controls, redundant automatic failover CPUs, mix engines and power supplies are all integral to the system. Components interconnect via CAT5 or fiberoptic cables for single-wire system integration.

A traditional intuitive surface layout gets your operators up and running FAST—even in full 5.1 surround mode.

TRUE RELIABLE mixing power; ease and clarity of operation—take **ADVANTAGE** of the **WHEATSTONE BRIDGE** Network System!

CENTRAL FRAME
can control a 1024 x
1024 mixing based
router



Engineering

Engineering



Talk to your **STATION ROUTER**
bi-directionally for smooth
integration

 **Wheatstone**

sales@wheatstone.com / tel 252-638-7000 / www.wheatstone.com

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The background image shows a control room with a grid of monitors. Several people are working at the consoles. The monitors display various text and graphics, including the Harris logo and technical terms like 'PROGRAM SCHEDULING', 'TRAFFIC & BILLING', 'MEDIA ASSET MANAGEMENT', and 'AUTOMATION'. The overall lighting is blue and futuristic.

Surrounding broadcasters with total content delivery solutions.

A world of possibilities is well within reach. From content creation to viewer consumption, surround yourself with Harris' full spectrum of enterprise-wide solutions. Now

deliver the right content to the right person on the right device at the right time. Our latest breakthroughs include the new H-Class™ content delivery platform, 5.1 surround

sound and transmission systems for mobile video. No matter where you turn, Harris' mission-critical solutions and unparalleled customer support have you covered from every angle.

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assuredcommunications™

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www.harris.com

One magazine couldn't hold it all.

Four days and 14,000 exhibitors spread out over 800,000sq ft of Las Vegas Convention Center space.
Mission: See it all!

With a challenge this large, you need help.

The *Broadcast Engineering* editors and contributors covered this year's NAB convention, from opening press conference to closing salute, from the smallest booth to the largest monster exhibit. Our writers were tasked to bring all the new products, news and information back and package it for readers just like yourself.

So, no matter whether you attended or not, all the products you may have wanted to see are in the pages of this *Broadcast Engineering* NAB Special Report. Complete contact details are included with each new product announcement, so you can follow up directly with the vendor.

So, sit back, relax and read on! You're about to connect to the future of broadcast technology.

Brad Dick

Brad Dick
Editorial Director

A supplement to *Broadcast Engineering* - June 2005

NAB SPECIAL REPORT

NEW PRODUCTS

Connecting to the future of broadcast technology

- Miranda DVC-802/822
- DPA Microphones WINDPAC
- Leitch X75
- Belden Brilliance
- Sony DSR Series of DVCAM Master Series
- Omneon Multiport 4100 Series

- Network Electronics VikinX
- Audio-Technica AT2020
- Grass Valley LDK4000
- Snell & Wilcox Kahuna
- Genelec 8130A
- Panasonic AG-HVX200

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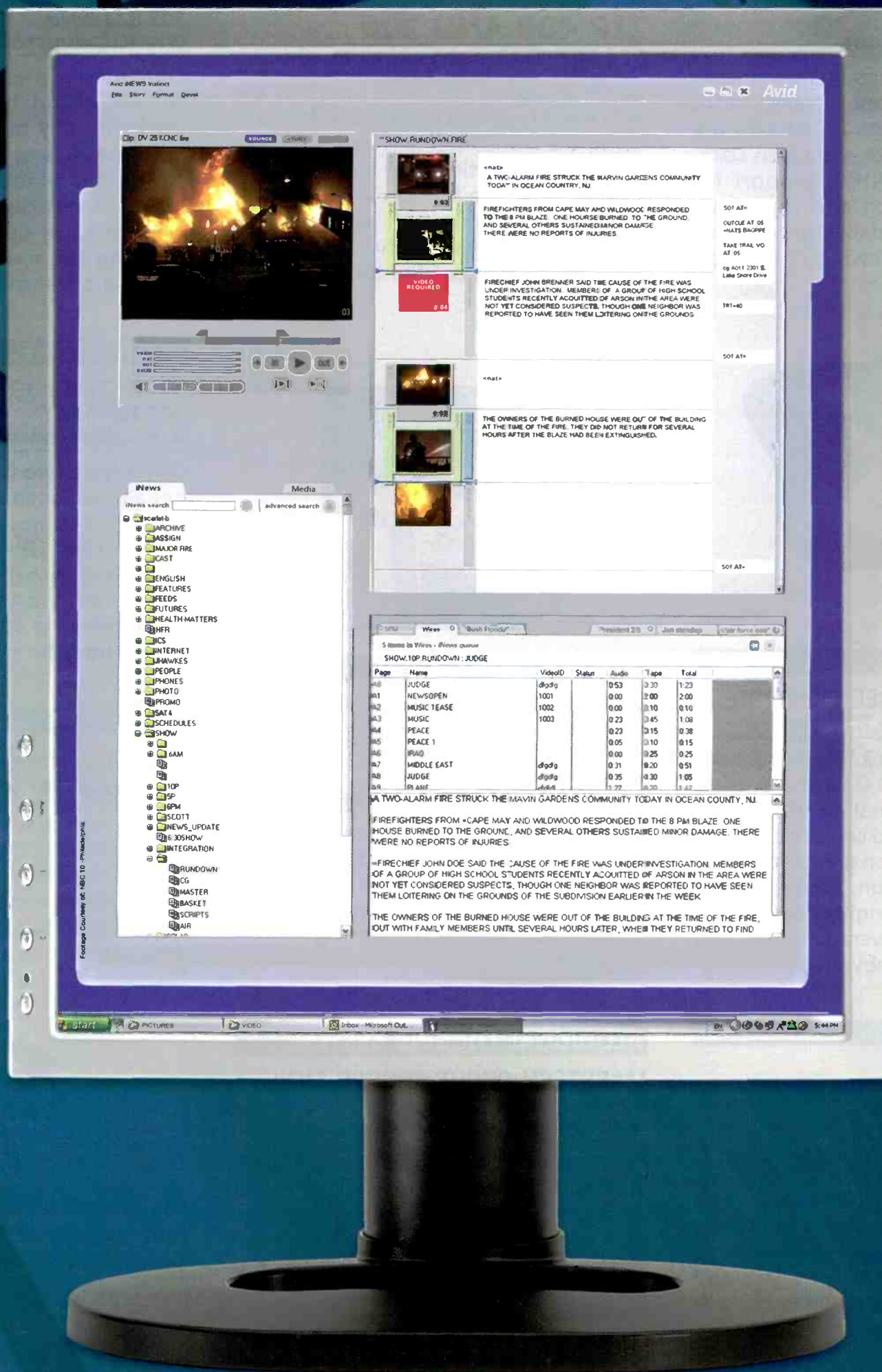
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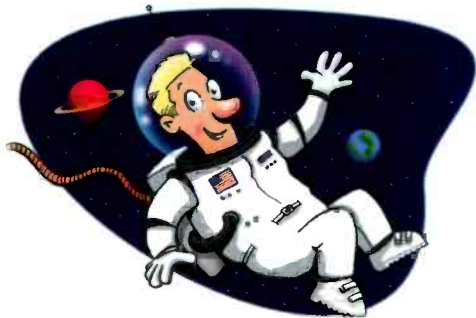
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Avid

ASSET MANAGEMENT

VCI STARSII+
413-272-7200
www.vcisolutions.com

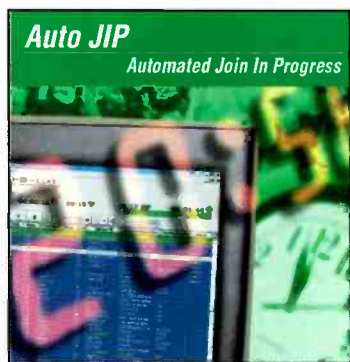
A real-time sales traffic system; manages core broadcast functions — sales, traffic and accounting; offers an easy-to-use graphical user interface and Open Database Connectivity (ODBC) support for flexible customization and reporting; eliminates redundant data entry and supports simultaneous viewing of multiple schedules. ●



LIGHT

KINO FLO PARABEAM ZIP 400 AND 200
818-767-6528; www.kinoflo.com

Optics compress the focal range of the light wave to produce a broad, soft source along the horizontal axis and a narrow beam on the vertical axis; measures 24in x 24in; can light a four-person news desk from approximately 15ft away; sweeps back the darkness in the foreground without washing out the foreground on the set. ●



AUTOMATION

FLORICAL SYSTEMS AUTOMATED JOIN IN PROGRESS (JIP)
352-372-8326; www.florical.com

Featured in the AirBoss presentation controller; is fully automated to provide potentially unattended join in progress of local recorded programs based on a remote signal from the network. ●

ALL-DIGITAL LOGGING SYSTEM

MASSTECH GROUP LOGGER-MINI
905-886-1833
www.masstechgroup.com

Replaces VCR logging with a low-cost, automatable, network-ready digital system for meeting archival logging and recording requirements; is a smaller storage version of MassLogger system; offers the advantages of nonlinear access, an easy-to-use Web interface and proxy monitoring. ●

CARBON FIBER VIDEO TRIPOD

MANFROTTO 351MVCF
201-818-9500
www.bogenimaging.us

Stage one features a twin-leg design, while a single leg is used for stage two; is lightweight; comes complete with double spiked feet for ultra stability; can support a maximum payload of up to 28.6lbs at heights ranging from 24in to 58in; incorporates a removable 75mm half ball. ●

DPA MICROPHONES WINDPAC
303-823-8878
www.dpamicrophones.com

Comprised of a shock mount and collapsible windshield; the shock mount can be used with any microphone without the need for clips or any other fittings; the collapsible windshield is made from a fabric that is capable of withstanding wind gusts of up to 85mph, while still allowing for accurate sound recording and audio transparency. ●

MULTICHANNEL AUDIO METER

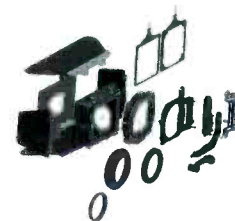
DK-TECHNOLOGIES PT0660M
602-765-0532
www.dk-technologies.com

Offers from two to 32 channels of audio; has a modular structure, with a wide variety of modules available; features include HD and SDI de-embedding, AES signals, analog signals, surround sound monitoring via the Jelly-Fish display, a goniometer for stereo purposes and volume control for outputs. ●

SMPTE TIME CODE GENERATOR

ESE ES-461U
310-322-2136; www.es-web.com

A microprocessor-based pre-settable SMPTE time code generator with Jam Sync; provides a front-panel mounted thumbwheel switch that allows the pre-setting of hours, minutes and seconds data and six digits of user bits. ●



WIDE-ANGLE MATTE BOX

ARRI MB-20
845-353-1400; www.arri.com

Its design is based around the 5.65 x 5.65 filter, which works well for HD wide-angles; accepts HD zooms, primes and wide-angle cine lenses up to 14mm; allows for both full studio-swingaway and clip-on use. ●

CAMERA SUPPORT SYSTEM

ANTON/BAUER STASIS
800-422-3473
www.antonbauer.com

A lightweight shoulder mount; redirects the geometry of a mini-DV camera to make use of the body as a stable support platform; the body support system improves both the ergonomics and performance of a professional mini-DV handheld. ●

DVR

FAST FORWARD VIDEO FIELDPRO
949-852-8404; www.ffv.com

A compact 5in x 1.86in x 3.14in digital video recorder; has internal 2.5in hard drive; powered by an external 12 VDC power adapter; features video capture and playback at 60fps, resolution greater than 550 lines at 4:1 compression, user-selectable compression ratios ranging from 4:1 to 20:1, recording times averaging from four to 20 minutes per gigabyte. ●

DUAL HD MONITOR

MARSHALL ELECTRONICS V-R72P-2HDA

310-333-0606; www.lcdracks.com

Rack-mounted monitor features high resolution, 1.2 million pixel screens with digital signal processing; designed for analog applications; accepts DVI and HDMI computer or video signals plus HD and SD analog video standards and signal types. ●

AUTOMATION/PROMPTING



AUTOCUE QSERIES
704-377-1496; www.autocue.com

An integrated software family that provides a flexible solution for the production office, newsroom and transmission facility; uses a common structure, a standard user interface and shared data; software modules merge to produce one application; each can also be run independently; consists of QNews, QNet, QTx, QMedia, QScript, QClose and Qvote. ●

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SONY®

Know
it
All



Even if you can't be everywhere and do everything, you can still know what's going on in your broadcast or production facility. Know it all with M2M: machine-to-machine remote monitoring from Sony Professional Services. It's the best way to track usage patterns, spot discrepancies, and head off service issues before they become costly, catastrophic, failures. We can set you up with comprehensive monitoring in-house — or Sony can keep an eye on things for you. We already monitor and parse over 1 million pages of machine logs every day for mission critical applications at sports arenas, movie studios, production houses and broadcasters all over the world.

Sony Professional Services. For those in the know.

VISIT WWW.SONY.COM/M2M OR CALL 866-293-8839

MPEG-4 AVC ENCODER

MODULUS VIDEO ME6000
408-245-2150
www.modulusvideo.com

Delivers more than 600 billion operations per second; provides high-quality, full-resolution HD video using low bit rates; supports features, such as CABAC entropy coding, macro block adaptive field frame coding, multiframe references and a deblocking filter; delivers MPEG-4 AVC data as a compressed MPEG-2 transport stream using IP or optional ASI. ●

**USB AND FIREWIRE FEED-THROUGH**

NEUTRIK
732-901-9488; www.neutrikusa.com

Fits the D-style cutout; is ideal for use with wall-plate applications; the Firewire feed-through is equipped with a 6-pin/conductor that passes power and signal conductors between patch cables; the USB feed-through is 2.0-compatible and reversible, making side A or side B available from the front of the connector. ●

CAMERA ROBOTICS

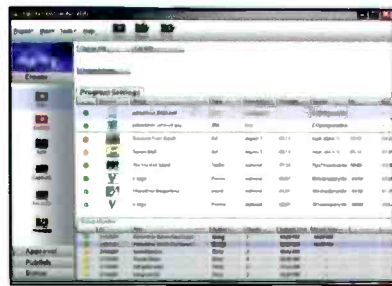
SHOTOKU BROADCAST SYSTEMS ROBOTICS
949-754-9005; www.shotoku.tv

The pan/tilt heads feature manual operations with adjustable fluid damping and VR capability; features include a Learn mode for control, SWOOP mode for modified zoom replay trajectory, automatic selection of the on-air camera, interface to such external control devices as microphone selection systems, linked sequences of 10 shots, and Ethernet interconnection for easy control over long distances. ●

SHORT HOP ATMOSPHERIC FIBER TRANSPORT

TELECAST FIBER SYSTEMS KERMIT
508-754-4858
www.telecast-fiber.com

Augments fiber-optic runs and provides signal connectivity where running fiber cable is impractical or impossible; plug in virtually any Telecast product, and Kermit launches its signal through the air, up to 1/2km away; is lightweight and portable for field deployment. ●

**VIDEO-ON-DEMAND DESCRIPTION SOFTWARE**

ANYSTREAM AGILITY VOD

703-450-7030; www.anystream.com

Enterprise-level description; allows content producers to serve VOD outlets; designed in response to demand from broadcast customers for a way to create and deliver content to burgeoning video-on-demand outlets affordably as opposed to outsourcing. ●

STUDIO MONITOR

JBL LSR6325P
818-894-8850; www.jblro.com

Based on a 5.25in high-excursion, low-frequency transducer powered by a 100W RMS amplifier and a 1in damped titanium composite high-frequency transducer powered by a 50W RMS amplifier; is housed in a cast aluminum enclosure; has a flat frequency response of +1.5dB/-2dB 70Hz – 20kHz with bass extension of -10dB @ 48Hz and peak SPL of 109dB at 1m. ●

**NETWORK PLATFORM**

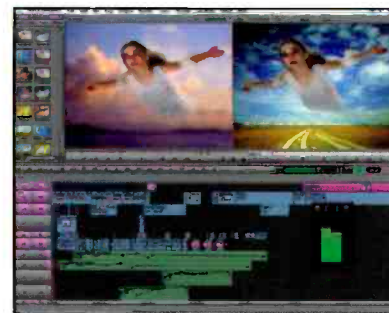
EXAVIO EXAMAX 9000
408-213-5500; www.exavio.com

Dynamic cache sustains an I/O throughput in excess of 5GB/s; elevates the performance of heterogeneous shared files system over a Fibre Channel fabric, providing real-time content access from multiple workstations with low latency and high-quality service; can expand to 36 2Gb Fibre Channel ports in one chassis. ●

DIGITAL CONTENT MANAGEMENT PLATFORM

BT BROADCAST MEDIAHIVE
+011 800 28 27 28 27
www.bt.com/media-broadcast

Can capture, store, manage and distribute any type of media file, including video, audio and still images, to any number of media-enabled devices, including TVs, PCs and mobile phones. ●

**EDITING SYSTEM**

AVID TECHNOLOGY MEDIA COMPOSER ADRENALINE HD

978-640-3594; www.avid.com

HD, SD and DV editing and finishing; features include 10-bit video capture and playback, real-time HD and SD multi-camera editing, and support for the most popular HD frame rates. ●

TRANSMITTER

BROADCAST MICROWAVE CARRY-CODER II

800-669-9667; www.bms-inc.com

A portable module for video cameras; performs wireless digital transmission of video, audio, and user-defined private data; can be used in a backpack configuration or plugged directly to the back of most professional video cameras. ●

**COMPLIANCE RECORDING SYSTEM**

AXON TRACS
+31 13 511 6666; www.axon.nl

A compact 1RU frame with video and audio inputs; has no local control and is controlled and monitored by the Request Server across a dedicated Gigabit network; has four serial ATA hot-swappable hard disks in a RAID-5 configuration; TRACS Request Server is enclosed in a matching compact 1RU frame with the signal I/Os located at the back of the unit. ●



MAKING IT HAPPEN

With complex HD playout, you need powerful monitoring and control.

You need smart systems that instantly report failures, and automatically present solutions to keep you on-air while you undertake emergency maintenance.

Miranda has pioneered the deployment of advanced multi-image display processing, integrated with monitoring and control over IP.

With our Kaleido and iControl monitoring systems plus our advanced HD/SD signal probing, you'll remain fully in control.

So if you're planning a new HD system, call Miranda. We'll help you make it happen.

Miranda Technologies
tel.: 514.333.1772 - ussales@miranda.com

BROADCAST MANAGEMENT SYSTEM

MSA FOCUS PERSPECTIVE
+44 0 29 20 671 760
www.msafocus.com

For rights management, compilation of playlists and securing income from advertising or sponsorship revenues; covers content preparation, management of scheduling and ad sales. ●

INTEGRATED PRODUCTION SUITE

NEWTEK VT [4]
800-862-7837; www.newtek.com

Provides real-time layering and effects for live video and graphics in most PC file formats; operates internally in uncompressed D1 component video, with composite, Y/C, component, DV or optional SDI output; includes integrated timeline and storyboard editing, paint, 3-D modeling and animation, titling, keying, and live switching. ●

STORAGE

MAXIMUM THROUGHPUT SLEDGEHAMMER HD!O
514-925-3350; www.max-t.com

Enables any facility, with any system, running any OS, to centralize the input and output of HD material using commodity components to reduce the cost of ownership; features real-time HD/SD video capture, playback and recording; capture (uncompressed) once, share anywhere, any time; NAS bandwidth of 300MB/s or more; telecine-to-network in one step; DDR support via Web-based interface; RAID 5 protected storage for both video and IT networks. ●

**DIGITAL CONSOLES**

LOGITEK MOSAIC SERIES
713-664-4470
www.logitekaudio.com

Uses a series of drop-in modules that allows users to purchase console configurations that exactly meet their needs; are router-based; configurations range from four to 24 faders, with a variety of control and softkey modules also available; key features include support for 16-character source names and multiple full-color LCD screens. ●

GRAPHIC OVERLAY

TERAYON DIGITAL MOTION GRAPHICS OVERLAY (DMGO)

408-235-5500; www.terayon.com

Enables broadcasters to implement high-quality, real-time graphic overlays in their digital services to brand, promote and advertise; does not require any decoding or re-encoding of the underlying digital programming; composites SD and HD video with the output from CG systems and inserts overlays directly into compressed MPEG video streams. ●

**PATCHING SYSTEM**

ADC TELECOM UNIPATCH

800-366-3891; www.adc.com

Modular patching system with universal chassis; combines full Audio Engineering Society compliance, a highly durable RS-422 patching interface and a modular design; allows technicians to combine data, audio and video patching modules in a single 2RU modular panel. ●

TALLY AND UMD CONTROL SYSTEM

TSL TALLYMAN
+44 1628 687200
www.televisionssystem.com

Allows the user to interface to any third-party hardware and readily reconfigure the tally and UMD system as required; now includes the ESP-1 multipurpose interface, which connects with the Tallyman controller via Ethernet and provides additional parallel 32 in and 32 out connections. ●

**MPEG-4 ENCODING SYSTEMS**

ENVIVIO 4CASTER MOBILE AND 4CODER HD
650-243-2700; www.envivio.com

4Caster Mobile series optimally distributes audio and video to mobile phone and mobile television subscribers; is compliant with international mobile delivery standards, including 3GPP, DVB-H and ISDB-T; 4Coder supports SD or HD; features dual-pass encoding with preview and batch modes, MPEG-4 HE AAC audio, and an optimized codec for multi-processor platforms; incorporates pre-processing and pre-filtering to deliver the highest audio and video quality. ●

TELEPROMPTERS

TELESCRIPT FPS120F/FPS150F
201-767-6733; www.telescript.com

The FPS120F features a screen size of 12in; weighs 11.25lbs; offers a brightness of 300 nits; the FPS150F features a screen size of 15in; weighs 16.5lbs; offers a brightness of 450 nits. ●

**BROADCAST LOUDNESS METER**

DOLBY LABORATORIES LM100

415-558-4813; www.dolby.com

Measures the subjective loudness of dialogue within broadcast programming; presents measurements in numerical format; eliminates variations in the results multiple operators find when using VU or PPM meters; can determine the unweighted peak and a range of other information about the signal; can simultaneously display the incoming dialogue normalization value of a Dolby Digital program for direct comparison to the actual measured value. ●

**MODULAR ROUTER**

NETWORK ELECTRONICS VIKINX

800-420-5909
www.network-electronics.com

The line consists of the 128 x 128 AES router and the 64 x 64 analog audio router; features dual, hot swappable and load sharing power supplies; supports dual and redundant system control and monitoring tools; supports TCP/IP control connectivity, fully programmable control panels and the capability to control the VikinX compact series of routers. ●

Channel 242: *Birds of the Rainforest*



As experienced through Dolby Digital for HDTV.

Viewers don't want to just watch TV anymore. They want to experience it. And Dolby® Digital 5.1 lets them do just that in rich, HDTV surround sound. In fact, Dolby Digital 5.1 is already setting the standard for HDTV audio on most major terrestrial, cable and satellite services. Today, viewers expect the very best viewing experience in sports, movies, live events and episodic programs. And with Dolby Digital 5.1 you can give it to them.

www.dolby.com



**NEWSROOM SYSTEM
RESOURCE MANAGEMENT****OCTOPUS TRACK****+42 2 2118 1511**
www.octopus-news.com

Builds a framework to better manage the assignment and planning side of a new business; tracks all personnel and equipment; creates a booking system for assignments that is linked to stories so information moves between assignments and running orders transparently; tracks the cost; projects the cost of planned stories; compares cost with actual on-air use. ●

TRANSPORT STREAM TEST SUITE**PIXELMETRIX DVSTATION-DTA****866-749-3587**
www.pixelmetrix.com

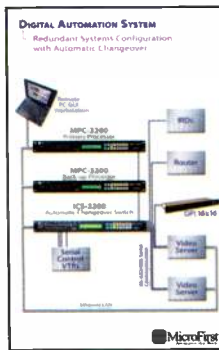
Is an offline transport stream analyzer for IneoQuest Singulus; extensible SI/PSIP parsing engine supports decoding of MPEG, DVB, ISDB, ATSC and Motorola DigiCipher II tables; tests SPTS and MPTS captured using IneoQuest's Singulus. ●

LOGGING SOLUTION**MEDIAPROXY ENIGMA 5.1****+61 03 9549 1115**
www.mediaproxy.com

Features improved reliability and fault-tolerance; has closed-caption and VBI support; includes SDI and analog sources and redundant recording targets; has multiple audio channels and up to four programs in 1U of rack space; features regional language support and improved set-up and management of logging server. ●

**CAMERA CONNECTOR****CANARE HYBRID FIBER-OPTIC CAMERA CONNECTORS****818-365-2446; www.canare.com**

New F.O. camera connector design; with a detachable alignment sleeve and insulator; easy maintenance; made with a stainless steel body shell; are SMPTE 304M compliant with an insertion loss =0.5dB; AdPC polish for a RL =45dB. ●

**DIGITAL
AUTOMATION
SYSTEM****MICROFIRST
ENGINEERING
D.A.S.****201-651-9300**
www.microfirst.com

Provides metadata management and device control through real-time automation and management system; offers sophisticated logging functionality, dynamic near real-time integration, full-functioned graphical device control, distributed or centralized IP control, monitoring and maintenance of WAN television system as well as interfaces to nearline storage and archive management systems. ●

**OPTICAL DISTRIBUTION AMPLIFIERS****COMMUNICATIONS SPECIALTIES
PURE DIGITAL FIBERLINK 8000/8100****631-273-0404**
www.commspecial.com

Distributes signals from almost any Pure Digital Fiberlink transmitter unit to multiple Pure Digital Fiberlink receiver units without any degradation to the quality of the original baseband signal; provides point-to-multipoint signal distribution over fiber in unlimited configurations; is compatible with CSI's WXGA and 7220 series audio fiber system at wavelengths of either 1550nm or 1310nm. ●

**DIGITAL WIRELESS INTERCOM****CLEAR-COM CELLCOM****510-496-6666; www.clearcom.com**

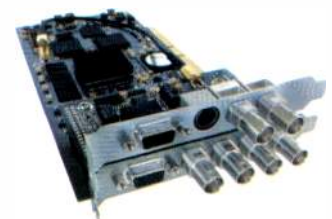
Based on FreeSpeak technology; delivers a wireless version of a traditional wired intercom control panel for communications, including point-to-point and party line (conference), without multiple frequencies or manual selection; includes local route programming, crosspoint level control, assignment of IFBs, groups and full non-blocking mixing facilities. ●

**4GB FIBRE CHANNEL
STORAGE SOLUTION****CIPRICO MEDIAVAULT****4105 AND 4210**
763-551-4000; www.ciprico.com

Five-drive, single-channel MediaVault 4105 records and plays back up to six uncompressed SD video streams; performs 300MB/s in RAID 0 mode and 240MB/s in RAID 3 mode; 10-drive, dual-channel MediaVault 4210 supports up to seven uncompressed SD video streams; performs 600MB/s in RAID 0 mode and 350MB/s in RAID 3 HD-Turbo (HDT) mode; both records and plays back 1080i HD video at 10 bits in HDT mode. ●

VIDEO GRAPHICS CARD**DIGITAL VOODOO SD | SPARK****+61 3 9682 9477**
www.digitalvoodoo.net

Offers 10-bit RGB I/O and 10- and 12-bit single/dual link SD-SDI I/O; features fill and key outputs and an internal keyer for logo insertion; includes embedded audio and six channels of AES/EBU XLR digital audio connections I/O with built-in sample rate converters for 5.1 surround sound monitoring; is compatible with Panther OSX, Final Cut Pro HD and the G5 workstation series. ●

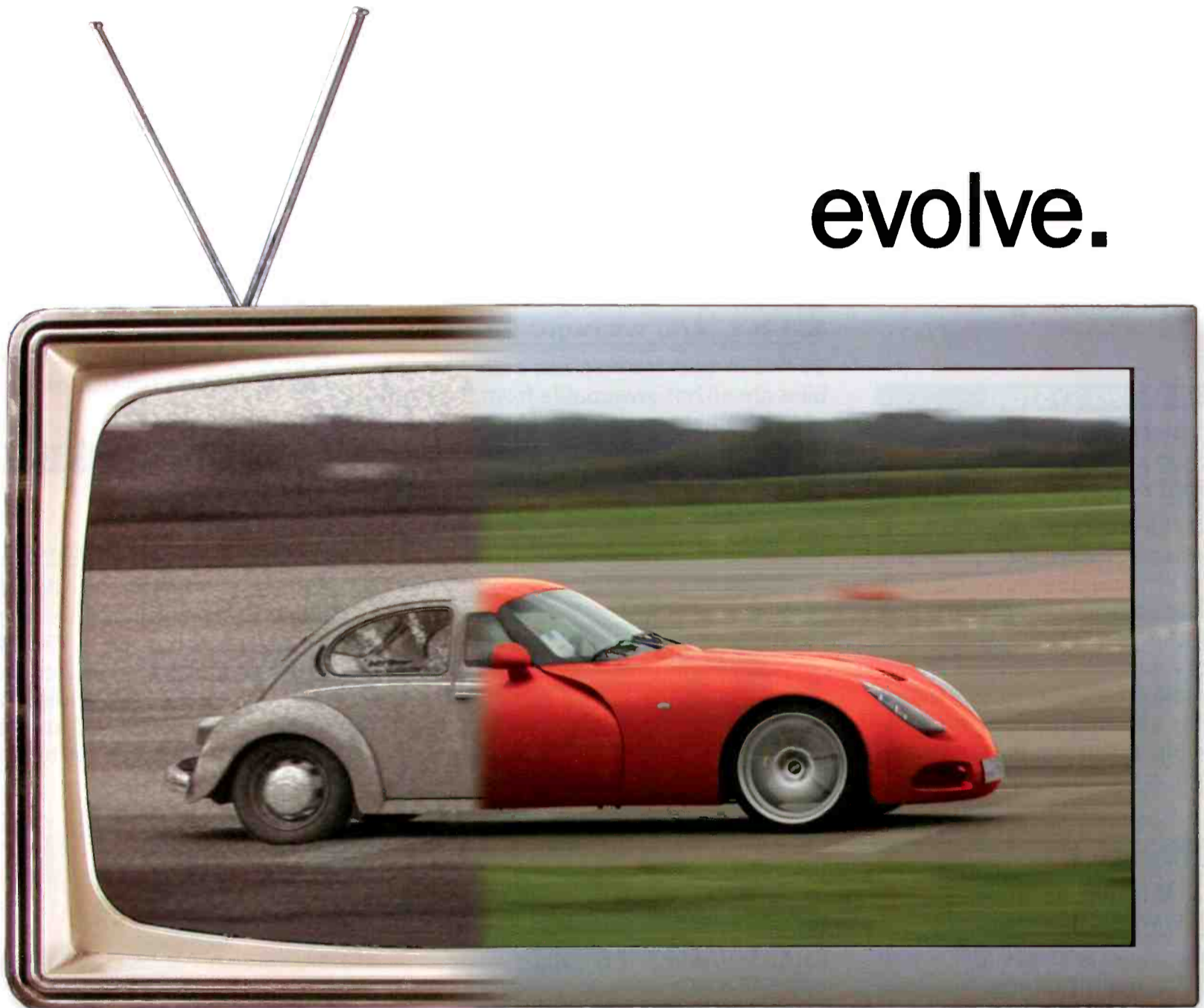
**VIDEO CARD****BLUEFISH444 CATALYST****+61 3 9682 9477**
www.bluefish444.com

Has a PCI-X 64-bit 133MHz PCI interface for 1Gb/s transfer for up to five streams of uncompressed 10-bit YUV HD-SDI video; converts in real-time 2K to HD/SD SDI or HD/SD SDI to 2K; features standard video connections; supports 2K resolution and HSDL frame rate; supports Windows XP, Windows 2000 Pro and Linux. ●

DATA TAPE DRIVE**QUANTUM SDLT 600A****800-677-6268; www.quantum.com**

Data tape system for file-based video storage; direct access to clips and metadata; MXF-compatible; 36MB/s transfer rate; 300GB per cartridge provides six hours of HD or 25 hours of SD; fully SNMP-compliant. ●

evolve.



think video. think Terayon.

Digital video changes everything - how we brand, communicate, entertain and inform. Terayon accelerates your ability to evolve and capitalize on new business opportunities brought on by this digital revolution. Terayon enables you to deliver picture perfect results where it matters most - on the screen and on your bottom line.

TERAYON

www.terayon.com • info@terayon.com

evolve faster.

DIGITAL BELTPACK

RIEDEL COMMUNICATIONS PERFORMER C3818-563-4100; www.riedel.net

A fully integrated, digital two-channel system for combined digital matrix and party-line style intercom; can be used stand-alone or in conjunction with matrix systems; ergonomically shaped; has three XLR connectors, one for head-set, one for input and one for loop through; connected to the C44 System Interface via standard 3-pin XLR cables. ●



NONLINEAR VIDEO SYSTEM

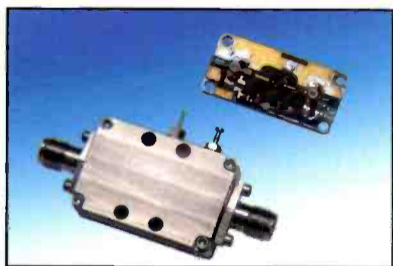
FAIRLIGHT PYXIS+61 2 9975 1777
www.fairlightau.com

Supports HD video in both uncompressed and compressed formats; incorporates a new Tri Level sync-capable PCI coms card; supports Blackmagic Design HD-Link hardware; includes an SD player/recorder with Genlock and SDI I/Os; features an HD/SD network player and an HD/SD player recorder with SDI and genlock supporting JPEG compression or 4:2:2 uncompressed video. ●

MPEG TEST SYSTEM

TEKTRONIX MTS400 SERIES800-833-9200; www.tektronix.com

Monitors, tests and analyzes MPEG and MPEG-over-IP signals; features real-time and deferred-time analysis and recording; handles 400Mb/s, greatly reducing analysis time; supported standards include MPEG-2, MPEG-4, H.264, VC-1, 3GPP and DVB-H. ●



MULTIPLIERS

MITEQ SYS2XA4509H AND SYS3XA1957H630-759-9500; www.miteq.com

Available in either carrier form or standard SMA housing form; model SYS2XA4509H is a doubler with 10dBm output from 6GHz to 12GHz, for a +5 dBm input; model SYS3XA1957H is a tripler with 12dBm output from 4.2GHz to 7GHz, for a +4dBm input. ●

BROADCAST AUTOMATION

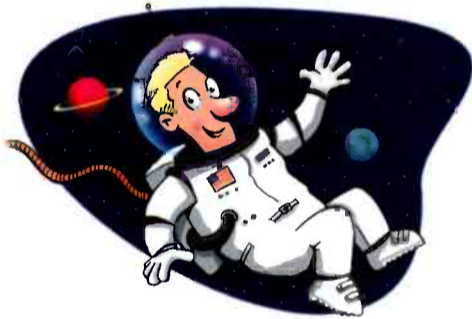
FISSION SOFTWARE MODULES203-730-2944; www.fission-sw.com

A suite of four integrated modules — insertion, capture, management and feed — based on open architecture designed to automate broadcast workflow; deliver a natural, comprehensive and adaptable workflow for any cable or broadcast facility, regardless of size or complexity; handle all types of signal formats in both SD and HD configurations. ●

ROUTER

QUARTZ ELECTRONICS XENON530-265-2815; www.quartzus.com

Comes in two frame sizes; active assemblies are all hot-swappable from the front of the frame; power, control, cooling and reference generation are all available in dual-redundant configurations; every output can be switched in the same TV frame. ●



IP STREAMER

GRASS VALLEY IPS 1200800-547-8949; www.grassvalley.com

Broadband IP streamer in a 1RU chassis; accepts up to 16 ASI streams with full MPEG remultiplexing; output to GigE network at speeds to 700Mb/s for DSL and FTTH networks; handles external conditional-access signals and provides built-in DVB scrambling; internal signal conditioning and grooming from any input to any output. ●

MEDIA ASSET MANAGEMENT

KONAN DIGITALARC818-649-8655
www.konandigital.com

Manages media life cycle and controls the entire process of media flow from ingest to archiving; an embedded workflow engine provides advanced status management for all assets; users can subscribe to automatic notification services to track media and story status across every step of the workflow; integrates seamlessly with related systems to simplify the workflow and makes the enterprise digital assets available to facilitate faster content creation and multipurposing. ●

CREATION SOFTWARE

QUANTEL EIGER FOR EQ AND IQ+44 1635 48222; www.quantel.com

Toolset for eQ and iQ post and DI applications; uses new UniKey, multiformat, multicolorspace keying toolset; fully resolution co-existence; standard on all new Quantel eQ and iQ systems; free upgrade to all eQ and iQ Qcare customers. ●

VIDEO SERVER

ENTONE STREAMLINER650-378-1215; www.entone.com

High-performance server designed for VOD, NVOD and time-shifted broadcast applications; streaming MPEG over IP; supports Windows Media 9 encoding; supports billing interfaces and uses an Intel IT-based architecture. ●

SYNC/TEST PATTERN GENERATOR

SIGMA TSG490866-569-2681
www.sigmaelectronics.com

Supplies timing and test signals for mixed digital and analog facilities; generates LTC and VITC; supports NTSC/PAL; SMPTE 318M-compliant; generates analog stereo test tone; embedded audio and user-programmable text ID and animated ID; imports bitmap images for test signals. ●



DIGITAL BROADCAST TEST PLATFORM

ACTERNA DTS-330866-228-3762; www.acterna.com

Supports MPEG-2, DVB and ATSC testing in one box; users can troubleshoot their digital video networks via the platform's application modules, which include the analyzer for continuous, detailed, real-time analysis of all transport stream content and statistics. ●

AUDIO POST SUITE

FAIRLIGHT DREAM SUITE PACKAGE+61 2 9975 1777
www.fairlightau.com

Includes a fully featured 48-track DAW Station^{PLUS}, fully-automated 56 channel/24-buss surround sound mixing, Creamware plug-ins with 80 plug-in suite license, networking and Pyxis Pro NLV video system; features one QDC engine fitted with two QDC cards and one Fairlight Station Controller with a 12-fader sidecar and main meter panel. ●

***Ikegami's HL-60W sets performance standards,
but our customers get all the applause.***



HL-60W

Some broadcasters really know a good thing when they see it. Take Ikegami's HL-60 for example. This remarkable fully digital camera incorporates newly developed 0.18 micron digital signal processing, containing 3.3 million gates and equal to 12 million transistors, all in a single IC. Providing compact size, low power consumption and attractive price, the HL-60W delivers Ikegami-quality in a switchable camera (16:9/4:3) that makes users stand and cheer.

Featuring 38-bit internal digital processing, 67dB S/N ratio, 750 TVL, High sensitivity (f11) and low vertical smear (-135dB), the HL-60W provides outstanding performance and value appreciated by smart broadcasters everywhere.

Another winning Ikegami customer

"With all the equipment we own, no manufacturer provides better personal service and support. When it comes to cameras – Ikegami just gets it."

Joe Shackelford

Partner, Sweetwater Digital Productions
and Video Facilities Provider to
"The Ellen Degeneres Show"

Ikegami

Ikegami Electronics (U.S.A.), Inc. 37 Brook Avenue, Maywood, NJ 07607 East Coast: (201) 368-9171
West Coast: (310) 297-1900 Southeast: (954) 735-2203 Southwest: (972) 869-2363 Midwest: (630) 834-9774

Website @ <http://www.ikegami.com>

2005

PRODUCT SOURCE

ANALOG AND AUDIO SIGNAL MONITOR

HAMLET LCD SCOPE 292WVA
+44 0 1494 729728
www.hamlet.co.uk

Has no cathode ray tube and instead uses a liquid crystal display; has no problems associated with CRTs, such as focus, astigmatism, parallax, EHT failure or high maintenance costs; makes an ideal replacement for existing or failing CRT units; is only 160mm deep.

FIELD NEWS EDITOR

LEITCH NEXIO XNG
757-548-2300; www.leitch.com

Based on Velocity user interface; a software-only application targeted for remote news applications; uses NEXIO's MediaID technology — transfers only needed video and audio clips to server; users can access content on any NEXIO SAN via FTP; shares editing and interface GUI with VelocityX NLE.



MPEG MONITOR

SENCORE VIDEO BRIDGE
800-736-2673; www.sencore.com

Designed to provide continuous monitoring of MPEG signals in any network where the data is being carried over IP frames; capable of verifying the signal integrity of multiple TV multicasts in parallel; designed in both field- and rack-mountable versions.

Outstanding in the field.



Outstanding TV measurement performance is finally available in a compact, portable package.

The unique new R&S®FSH3-TV gives you all the functionality you need for demanding TV broadcast and cable TV system field service measurements. It's compact, portable, and battery-powered, and works in almost any lighting conditions.

The R&S®FSH3-TV is a combination spectrum analyzer and full-featured TV measurement demodulator. It comes with TV measurement software, pre-amplifier, and tracking generator. It weighs just 6 pounds, and is tough enough for the demands of daily use. It's outstanding in the field.

The R&S®FSH3-TV gives you everything you need in the field, at a very reasonable price:

- Spectrum analysis to 3 GHz
- Digital TV measurement demodulator
- Battery-powered field portability

It supports analog and digital broadcast and digital cable standards used throughout the world.

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ENG CAMERA

PANASONIC AJ-SPC700
800-528-8601
www.panasonic.com/broadcast

P2-based DVCPRO ENG camcorder; images are stored on a P2 card in MXF file format; five slots provide 160 minutes of DVCPRO 25Mb/s recording or 80 minutes of DVCPRO at 50Mb/s; 2/3in, 520,000-pixel, IT 3-CCD imagers; switchable between 4:3 and 16:9 aspect ratios, 750TVL resolution; S/N ratio of 63dB; F11 at 2000 lux, minimum illumination of 0.5 lux (at +36dB); low 20W power consumption.

ROUTER

PRO-BEL SIRIUS GOLD
+44 118 986 6123
www.pro-bel.com

Features router sizes of 512 x 512 and beyond; is format-independent; can mix and match different signals within the same frame; incorporates built-in analog and digital signal conversion for both video and audio signals, enabling different formats to be housed within the same frame and cross-routing between formats.

MULTI-IMAGE DISPLAY

EVERTZ MVP

905-335-3700; www.evertz.com

Handles HD-SDI, SD and NTSC/PAL inputs; cards are hot-swappable, and the processor handles up to 100 channels; images are fully customizable into an array of two, three, four or more actual displays; provides monitoring and fault triggering on more than 17 parameters. ●

DIGITAL SIGNAL PROCESSOR

WHEATSTONE VORSIS AP3

252-638-7000

www.wheatstone.com

Audio expansion/compression with adjustable band divisions; operates in both stereo or two separate monaural channels; 44.1KHz or 48KHz sample rates; functions include four-band parametric EQ, AGC, signal symmetry control with polarity flip, output gating and peak limiting; real-time FFT spectrum density readout with desktop computer; remote control via Ethernet and CAT5 interconnectivity. ●

OPTICAL LENS STABILIZER

FUJINON TS-P58A

847-945-8923

www.fujinonbroadcast.com

Provides anti-vibration range of up to 20 percent of picture height; functions with full-range of Fujinon HD and SD ENG telephoto lenses; adapter also increases lens' magnification by 1.25, allowing extreme close-up shots with shorter-focal-length lenses. ●

UHF DTV TRANSMITTER

HARRIS POWERCD

513-459-3400

www.broadcast.harris.com

Maximizes coverage and operational efficiencies while minimizing costs; uses E2V's high-efficiency ESCIOT MSDC tubes with Harris correction and filtering techniques, liquid cooling and Linux-based control and networking system. ●

UHF SOLID-STATE TRANSMITTER

HARRIS ATLAS ANALOGUE

513-459-3400

www.broadcast.harris.com

Solid-state design, supporting both ATSC and DVB-T applications; requires only two cabinets; power output from 2.5KW to 30KW; provides cost-effective and easy conversion from analog to full digital operation. ●

DIGITAL SIGNAGE CG

CHYRON CHYTV

631-845-2000; www.chyron.com

A low-cost, yet powerful and flexible CG; can display messages anywhere there's a television without disrupting the video source; simply loop through the video; the CG applies text, graphics as a crawl or full pages; looping or real-time playout. ●



HD & SD

Live to Air Playback
Broadcast Time Delay
VTR Replacement
Sports Slow-Mo

Doremi Labs' MCS Video Server provides up to four independent record and play video channels in a compact 3RU chassis. A second MCS Server can be added to create a six channel system with shared RAID5 storage.

System Compatibility

- HD-SDI, SDI, YUV/RGB, SVideo, Comp. in-out
- P2, VDCP, Odetics and GPI control
- Compatible with leading automation systems
- Automated playback via our ListMaker software

Reliable and Upgradeable Design

- One to Six video channel configurations
- Dedicated video hardware platform
- External RAID5 or internal storage
- Redundant power supply



Built-in Video Transitions: Fade, Wipe & Dissolve

MCS-HD Multi-channel HD Video Server

- 2 record and 2 play independent HD video channels

Single Channel Video Recorders start at \$4,350
Multi-Channel Servers start at \$16,000

Video Servers - HD MPEG2 Encoders, Decoders & Players - DVI Converters - Test Generator
Doremi Labs, Inc. | tel. 818 562-1101 | info@doremilabs.com | www.doremilabs.com

doremi



HD LENS

CANON HJ17EX7.6B

800-321-4388

www.canonbroadcast.com

A compact, portable HD lens with Digital Drive; lens memorizes any two user-specified focal lengths, and the drive moves the lens focal length between the two points in either direction at its highest speed; includes X-Element and Power Optical System; also provides shortest M.O.D. among comparable lenses. ●

AUTOMATION SYSTEM

SUNDANCE DIGITAL FASTBREAK NXT SERIES

972-444-8442;

www.sundancedigital.com

Run four active playlists simultaneously on a single Air Control Station; have greater visibility to enable error-free operation of multiple playlists; feature enhanced manual and automated join-in-progress functionality; databases are standardized using the Microsoft SQL platform; versions offered for both the spot play and full automation configurations. ●

WIRELESS CAMERA TRANSMITTER

MICROWAVE RADIO COMMUNICATIONS REPORTER

978-671-5700

www.mrcbroadcast.com

Broadcast live video to a central receiver site up to 1093yd away; features integrated MPEG-2 encoding (4:2:2/4:2:0) with COFDM modulation; accepts NTSC/PAL composite, component or SDI video inputs and offers selectable audio inputs for standard analog (two channels), AES/EBU digital bit stream or de-embedded SDI. ●



HD VIDEO SERVER

VIDEO TECHNICS APELLA HDS

404-327-8300

www.videotechnics.com

Provides seamless HD workflow for ingest, edit and playout; features an open platform capable of operating with existing hardware and software; its 4:2:2 HD capabilities make it ideal for post-production facilities with central asset management; new software compression technology provides high-quality video with reduced storage requirements. ●



DVD-R DISCS

MAXELL 16X PLUS SERIES AND 16X BROADCAST QUALITY SERIES

800-533-2836

www.maxell.com

Have 4.7GB capacity; support 16X write speeds; feature an advanced proprietary organic dye recording layer; are available in jewel cases or in spindles; are write-compatible with any manufacturer's general-purpose DVD-R drives and recorders; after recording, the discs are read-compatible with DVD-ROM, DVD-video and DVD recorders. ●

ROUTING SWITCHER

ROSS NK SERIES

613-652-4886; www.rossvideo.com

Compact design; available in multiple sizes, including new 16 x 4 and up to 32 x 32; supports serial digital, analog audio and video and AES audio formats; handles SMPTE 259M SD and 292M HD video formats. ●

CONSOLE

EUPHONIX 5-MC

818-766-1666; www.euphonix.com

Designed for audio post applications; interfaces directly to digital audio workstations, such as Steinberg's Nuendo and Merging Pyramix, using the EuCon high-speed control protocol. ●

MegaPixel Resolution

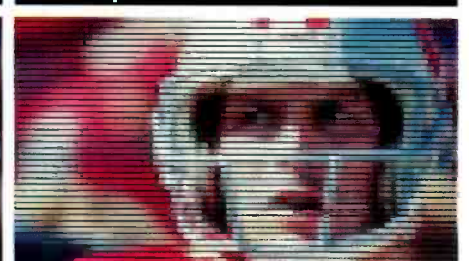


TFT-MegaPixel™

Our new triple rackmount V-R653P-HDSDI has 1.2 TFT-Megapixel High Definition displays. Representing the leading edge of imaging technology, each screen will accept ALL Digital HD or SD formats, including 1080-24P, 1080-50/60i and 720-50/60P

Marshall's 1.2 TFT-MegaPixel

Competitor's best resolution



Marshall Tel.: 800-800-6608
Fax: 310-333-0688

LCDRacks.com infoComm booth # 7709



TRANSPORT STREAM GENERATOR

ROHDE & SCHWARZ DVM400

888-837-8772

www.rohde-schwarz.com

Upgrade offers transport stream generator/analyzer/recorder functionality in one box; MPEG-2 analyzer and monitor with up to four stream inputs now includes MPEG-2 generator/recorder/player and data broadcast analysis option that includes DVB-H functionality. ●

INTEGRATED CONSOLES

CALREC SYSTEM PLUS

+44 422 842159

www.calrec.com

Technology upgrades of hardware and software are available as optional upgrades to existing 100 series consoles; basic platform includes fully redundant power supplies and 20-second boot time; every card is hot-swappable; consoles are compatible with Calrec Hydra audio network. ●

TELEPHOTO ZOOM LENS

THALES ANGENIEUX 26 X 7.8 AIF HD ENG/EFP 973-812-3858

www.angenieux.com

Offers a focal range of 7.8mm to 203mm and an aperture of f/2.2; weighs 4.1lb; rectangular sunshade minimizes light interference; includes selectable zoom/focus sensitivity adjustments, an anti-breathing feature to maintain field of view when focusing and RS-232 control; features Assisted Internal Focus (AIF) technology. ●

PROGRAM INSERTION

THALES SAPPHIRE 413-998-1100

www.thales-bm.com

An MPEG server supporting seamless digital program insertion; uses the Crystal logo inserter to insert material directly into the MPEG-2 stream without any decoding/encoding. ●

ADVERTISERS MARKED IN RED

UHF TRANSMITTER

DMT LDMOS UHF

856-423-0010; www.dmtonline.us

LDMOS-based solid-state transmitters; power levels to 25KW; modules are hot-swappable; each power module has separate power supply; easy upgrades through the addition of modules; versatile remote control and monitoring interface with full alarm features. ●

SATELLITE DATA SERVICE

SES AMERICOM IPLEX SOLUTION

609-987-4000

www.ses-americom.com

Features LAN-to-LAN connectivity between a central office and numerous remote sites for e-mail transfer, database applications and more; videoconferencing between any number of designated offices, via satellite or SES AMERICOM's terrestrial backbone network. ●

our team +
worldwide experience =

PROVENTECHNOLOGY

DIGITAL TX UP TO 10kW DTV

Suitable for analog transmission (20 kW p.s.)

Configurable for Dual Cast transmission
(digital or analog by automatic switch)

LDMOS Technology

Broadband standardized design

Fully redundant, hot swappable PAs
(fault proof operation)

Remotely controllable



1224 Forest Parkway Unit 140,
West Deptford, NJ 08066
856.423.0010 tel - 856.423.7002 fax
sales@dmtonline.us - www.dmtonline.us

JPEG2000 SERVER

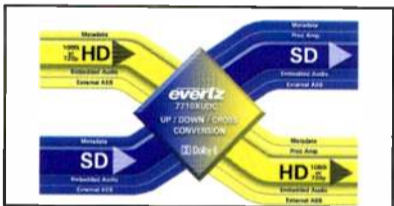
DOREMI V1-HD818-562-1101 www.doremilabs.com

Relies on JPEG2000 video compression up to 300Mbps, providing visually lossless recording; provides more than 12 hours of video recording on one hot-swappable drive; V1-UHD provides uncompressed JPEG2000 storage; both systems store multiple HD and SD clips in any format; 2K dual-link 4:4:4 recording with 24/24PsF at 10- or 12-bit resolution. ●

PRODUCTION SWITCHER

ECHOLAB NOVAIDENITY4978-262-0063; www.echolab.com

Compact design; includes six keys, five pattern generators, two 2-D DVEs with rotation, 16 SDI inputs, 16 SDI outputs, two matte generators, two DVE border generators and frame buffer with alpha channel; signals handled as 10-bit NTSC/PAL SDI; system has 10/100Mb Ethernet connectivity and provides full tally and GPIO. ●



CROSS CONVERTER

EVERTZ 7710XC CONVERTERS905-335-3700; www.evertz.com

Available in four versions to convert between SD and HD formats; accepts embedded audio, re-embeds the audio on output along with appropriate delay; handles closed captions and time code. ●

NETWORKING PLATFORM

HARRIS NETVX513-459-3400
www.broadcast.harris.com

MPEG-2 HD encoder mounts in NetVX chassis; supports multiple HD formats and 4:2:0 and 4:2:2 profiles; fully integrated with transrating transport stream multiplex module; optimizes bandwidth; handles up to 16 SD channels with rate-limiting capability for efficient VoIP while providing pass-through for non-transrated programs (HD, 4:2:0, 4:2:2, CBR and VBR signals). ●

HD/SD CROSS CONVERTER

ENSEMBLE DESIGNS 7900 SERIES530-478-1830
www.ensembledesigns.com

Provides HD up-, down- and cross-conversion, eight-channel audio option with channel shuffling and audio mixing; supports multi-formats; accepts software upgrades for signal monitoring and alarms. ●



TAPELESS HD DNG

IKEGAMI HDN-X10 EDITCAM HD201-368-9171; www.ikegami.com

Provides 1000 TV lines of resolution; 56dB of S/N and F10 at 2000lux; power consumption only 32W; uses three 2/3in 2.1 megapixel CMOS sensors; uses Avid DNxHD codecs working at 8-bit or 10-bit sampling at 145Mb/s and 220Mb/s; portable FieldPak2 storage ingests directly into Avid HD NLE; proxy and metadata are stored on camera's USB flash cards. ●



MULTI-IMAGE PROCESSOR

MIRANDA KALEIDO-ALTO-HD514-333-1772; www.miranda.com

Features auto-sensing HD-SDI, SDI and analog composite inputs; outputs DVI with up to 1280 x 1024 pixels with embedded AES and analog audio level metering, source LDS, tallies, aspect ratio markers and clocks and timers; full operator control of display windows, sizes, positions and aspect ratios. ●

HD EDITOR

LEITCH VELOCITYHD757-548-2300; www.leitch.com

Supports SD, HD, HDV and Panasonic VariCam formats; direct timeline support for DV25 and DVCPRO formats; P2 support; direct 1394 I/O for both 1080i and 720p from HDV devices; HDV content can be seamlessly mixed with other HD formats on the same timeline; handles dual-stream, real-time HD transitions and effects, as well as full-quality HD playback of dual video streams. ●

MASTER CONTROL SWITCHER MODULES

NVISION NV5000-MK-SD530-265-1000; www.nvision.tv

Standard-definition, single-slot card; includes A/B mixer, three general-purpose keys, built-in logo store and VO mixer; ideal as branding engine. ●

HD VTR

SONY SRW-5500 VTR201-930-1000
www.sony.com/professional

Switchable between HDCAM and HDCAM SR formats; simultaneously outputs HD and SD; Digital Betacam payout available; records and plays HDCAM and HDCAM SR tapes at 24PsF, 25PsF and 30PsF, as well as 1080/60i, 1080/50i and 720/60p; the HDCAM SR format can record/playback at 720/60p; HDCAM format can record at 1080i and provide format conversion to play back at 720/60p; captures content to tape at 440Mb/s at 10-bit depth, (log or linear) in MPEG-4 Studio Profile; records 12 channels of 24-bit uncompressed audio; features metadata handling, dynamic tracking playback, pre-read, and confidence playback and recording. ●

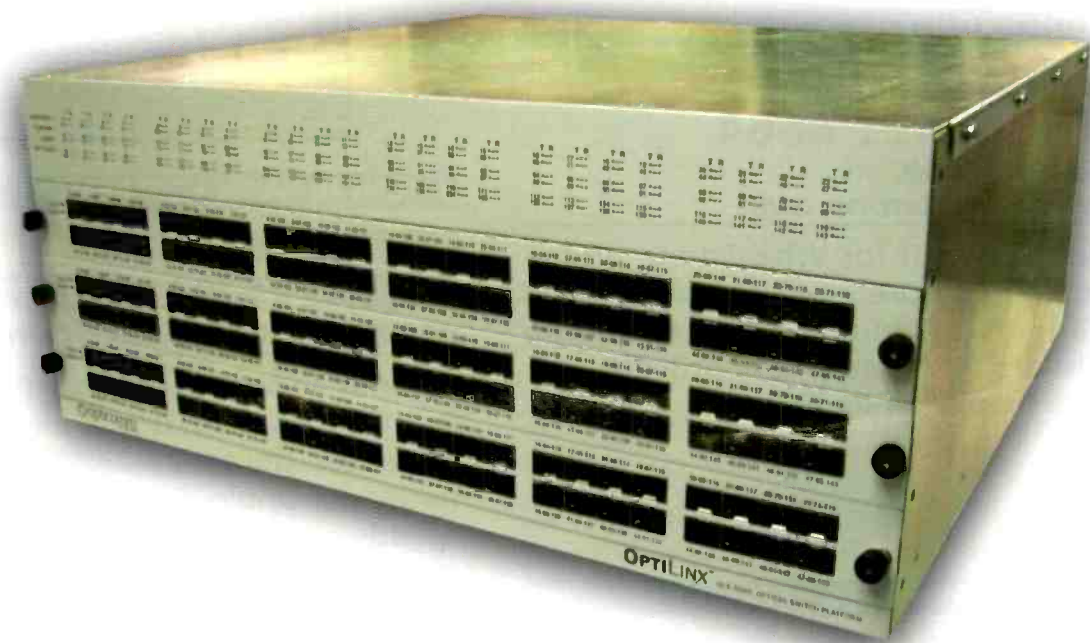
OPTICAL ROUTER

UTAH-400 FIBER I/O OPTION801-575-8801
www.utahscientific.com

Optional optical I/O for model 400 digital routers; for direct connection of SD and HD signals; routers support SD, HD and AES digital routing; sizes range from 32x32 up to 1152x1152; SD switchers fully upgradable to HD operation through simple I/O board exchange. ●

It's time to switch.

OptiLinx™ OLX-3000 Optical Switching Made Easy



Opticomm's OptiLinx™ OLX-3000 is a versatile, multi-purpose, fiber optic switch that provides high-speed switching between ports. The OLX Series is capable of switching signals up to 4.25 Gb/s with each of its 144 ports, all in a compact 4RU chassis, using swappable SFP modules.

The OLX-3000 is ideal for applications involving broadcast media conversion, multicasting one signal to many displays, or switching any video, audio or data input to any display output. Opticomm's LinxView™ software enables you to remotely perform these functions at the touch of a button.



800.867.8426 | www.opticomm.com

PRESENTATION CG

**VERTIGOXMEDIA
POWERPOINT CG**

514-397-0955

www.vertigoxmedia.com

Based on Microsoft's PowerPoint; turns presentations into high-end broadcast-quality video; runs in PowerPoint user interface; no scan converter required; provides video rich playback with live and stored video clips; scripting engine and live data linking. ●



AUDIO ROUTER

**WHEATSTONE
WHEATNET 4864**

252-638-7000

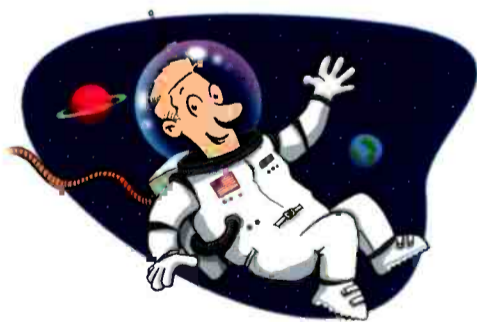
www.wheatstone.com

Central switch for Wheatstone bridge routers; 48 ports each supporting 128 channels of audio I/O plus control; onboard X-Y controllers provide rack room source/destination control. ●

OPTICAL SWITCH

OPTICOMM OLX-3000800-867-8426; www.opticomm.com

Features remote monitoring and switching using Opticomm's LinxView; has up to 144 ports in a 4RU package; features full duplex switching capacity up to 612Gb/s; has hot pluggable SFP transceivers on all port cards; provides point-to-point, multiple loops and multicast topologies simultaneously. ●



ASSET MANAGEMENT SOFTWARE

**SUNDANCE DIGITAL
SEEKER**

972-444-8442

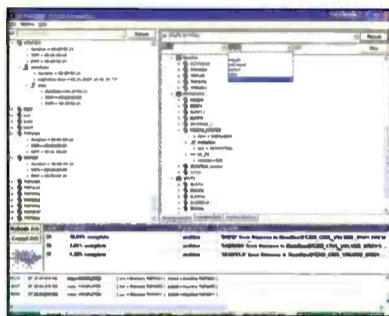
www.sundancedigital.com

Allows tasks to be created, assigned to an individual or group, and tracked; features media database that tracks, manages, stores and indexes video, audio, graphic and all types of document files; media management engine integrates with third-party transcoding engines. ●

EDITING SYSTEM

CANOPUS WORKFLOW408-954-4500; www.canopus.com

Combines the EDIUS real-time HD/HDV/DV editing solutions and ProCoder trans-coding expertise with the MediaEdge enterprise video distribution solution; allows users to create, purpose and deliver video at the highest quality for broadcast, DVD, streaming and video-on-demand. ●



ARCHIVE MANAGEMENT

**CRISPIN
ARCHIVEMANAGER**919-845-7744; www.crispincorp.com

Recently added dual internal Professional Disk for Data (PDD) drives; increases overall archive storage to 23.3GB of data capacity per single-sided disc; file transfer speeds are rated at 11MB/s read and 9MB/s write for both record-once and rewritable media. ●

EVALUATION SYSTEMS

**K-WILL VP21S
AND VP21H**

650-329-9988

www.kwillcorporation.com

Performs detailed measurements and comparisons of reference and copies videos on a real-time and fully automated basis; offers pixel-by-pixel comparison and provides more than 150,000 real-time measurements on each field of video. ●



FRAME SYNCHRONIZER

FOR-A FA-128714-894-3311; www.for-a.com

Available as a standalone unit or as a modular card (UFM-128FS), which can be inserted into the company's UF-106 or UF-112 frames; 14-bit internal processing frame synchronizer features analog composite I/O, 4:2:2 component internal signal processing, NTSC/PAL automatic detection, digital three-line adaptive comb filter processing, full frame memory to prevent picture field inversion during processing and process control functions (video level, chroma level, setup level and chroma, H and subcarrier phase). ●

SD/HD MPEG-2 ENCODER

**SNELL & WILCOX
MEMPHIS**212-481-2416; www.snellwilcox.com

Based on the company's Ph.C phase correlation motion estimation and Prefix compression preprocessing; seamlessly integrates into existing environments; accepts both SD and HD 1080/720 formats, uncompressed PCM, MP1L2, Dolby E and AC-3 audio; can encode at any MPEG-2 profile. ●

DISPLAY PROCESSORS

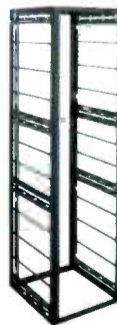
**ZANDAR
TECHNOLOGIES
FUSIONPRO**+353 1 293 8966; www.zandar.com

A multi-window display processor designed to accurately render multiple video and computer graphics sources to high-resolution displays; currently supports resolutions up to SXGA (1280x1024) with pristine image quality achieved through a combination of 10-bit RGB outputs, an advanced video processing engine and dynamic phase adjustment for accurate pixel mapping; founded on a modular architecture consisting of a range of plug-in processing cards and associated I/O. ●

RECEIVER SYSTEM

SYSTEMS WIRELESS VENUE703-397-9249; www.swl.com

A modular UHF design that operates with digital hybrid wireless transmitters and a variety of analog transmitters; the receiver uses a host assembly that includes an antenna multi-coupler, computer communications interface and mechanical rack mounting for up to six receiver modules; design combines 24-bit digital audio with an analog FM radio link; provides outstanding audio quality with the extended operating range of the best analog wireless systems. ●



BROADCAST ENCLOSURE

**MIDDLE ATLANTIC
GRK SERIES**

800-266-7225

www.middleatlantic.com

Engineered with large openings to accommodate cable pass-throughs and abundant

lacing points; has no raw edges at the bottom and top to prevent cable chafing and straight, vertical top-to-bottom cable runs; is available with horizontal lacer bars for tie and slide lacing; each rack has cupboard-style beveled doors. ●

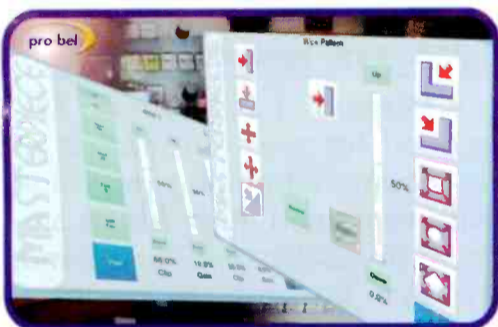
PRO-BEL CREATES MASTERPIECE FOR HD MASTER CONTROL

Designed from the outset for HD, Masterpiece incorporates many of the requirements inherent in HD production, while still providing a cost effective solution for SD and multi-channel playout.

Masterpiece benefits from a range of new features while making use of key resources from the popular TX Range. As part of Masterpiece, Pro-Bel has developed a new, high definition mixer that can either be specified from new or used to upgrade existing SD video mixers. It benefits from two keyers, with the ability to place a DVE into the signal chain before or after either keyer.

Masterpiece provides fast and effortless configuration options and benefits from a completely new panel, with a versatile touch screen operating under a Windows environment. This is based on the company's widely used Procion technology allowing configuration not only from the physical control panel but from any PC linked to the system.

Using Ethernet connectivity, an almost limitless number of mixer control cards and panels can be linked together to provide a comprehensive, facility-wide master control solution.



SIRIUS FAMILY EXTENDED WITH GOLD



Pro-Bel has extended the Sirius router family with the introduction of Sirius Gold. Sirius routers are used extensively in the US with recent sales including WBGU-PBS in Ohio, Deluxe Digital across several of its sites, Charlex in New York and WUSF in Florida.

The new Sirius Gold features router sizes of 512 x 512 and above, allowing the company to satisfy a growing demand for larger router sizes and for customers wishing to benefit from the Sirius range's inherent signal processing flexibility. Sirius offers systems with totally transparent and automatic conversion of any input to any output, analog or digital. The broadband crosspoint cards switch AES, SDI, ASI and HDTV signals. For I/O cards, select any mix of analog, digital, video or audio in groups of eight.

Neil Maycock, Chief Technology Officer with Pro-Bel, explains, "Traditionally, signal conversion has required frames of equipment external to the router; Pro-Bel has moved that functionality into the router and Sirius is the company's leading example of that ethos. With the launch of Sirius Gold we are taking the range to a new level."

WANT TO TALK ROUTING?...



Talk to the experts

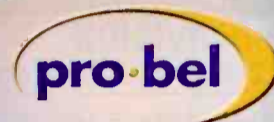
Pro-Bel has long been associated with the most reliable routing switchers in the industry. Twenty eight years of experience has ensured we know all there is to know about routing.

Our huge range incorporates every signal format and size from 8 x 1 on a DA-style card, to over 2000 x 2000 HD with our Sirius family.

We also understand the importance of router control and have developed intuitive PC and hardware based platforms with unrivalled capabilities. Total flexibility is provided by a variety of pushbutton, keypad, LCD and software-based panels, including a web-based interface for remote access.

Whatever your routing requirement, Pro-Bel has the product and the experience you can rely on.

www.pro-bel.com



PRO-BEL EXPANDS PROCION WORKFLOW TOOLSET

Procion is a generic environment that enables the customer to create and apply their own GUI to a range of broadcast operations. Procion now includes support for workflow management, media management, monitoring, automation, master control and router control.

The expanded Procion tool set provides a unifying environment for Pro-Bel and third party applications and allows the creation and customization of graphical user interfaces. It also benefits from a new web client that provides access to all of the core system functionality through a standard web browser. One of the key benefits of the web interface is that it provides platform independence, allowing access to Procion from Apple, Unix and other non-PC platforms.

Procion operates in a client server configuration using standard TCP/IP network protocols. Servers provide central interface points for Procion to communicate with and control associated systems. When a user logs onto a Procion workstation the workstation will connect to the appropriate



servers to provide real time control and monitoring of the systems associated with that users screens. A powerful design tool allows screens to literally be drawn for any style of user interface. The designer allows multiple related screens to be created for a single user's logon environment. Every aspect of the user interface can be customized allowing screens to range from clear and functional to more radical designs for the artistically creative.

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MORPHEUS THE EVOLUTION OF AUTOMATION



- Multi-channel playout
- Scalable and flexible architecture
- Real-time, frame precise control
- Complex event support with MediaBall™ technology
- MXF compliant



www.pro-bel.com



AUDIO CODEC

**DOLBY LABORATORIES
DIGITAL PLUS**415-645-5293; www.dolby.com

Designed specifically to adapt to future audio, video delivery and audio storage systems while simultaneously retaining backward-compatibility with the vast installed base of existing Dolby Digital 5.1 channel home theater systems; accepted by the ATSC as a proposed standard for adoption in the future robust channel specifications within the ATSC standard. ●

SURROUND SOUND ANALYZER

**MODULATION SCIENCES
SPIDERVISION**732-302-3090; www.modsci.com

A complete audio analysis solution; features a built-in, full-color display; in a half-rack wide case, it has the same form factor as a standard waveform monitor for easy mounting; features a simple push-button or remote screen selector; a true plug and play instrument; important user selectable features include operating level adjustment, VU, peak or PPM metering standards and SpiderVision or standard XY display modes. ●

DIGITAL CONSOLE

**CALREC AUDIO
ZETA 100**+44 1422 842159; www.calrec.com

Combines simplistic operation and instant access with bullet-proof engineering features such as hot-swappable cards and panels and intelligent redundancy on all system-critical elements; provides broadcast-specific solutions for all types of production environments; available in three frame sizes: 24, 32 and 48 faders. ●

DISPLAY

DK-TECHNOLOGIES PT0660M

+45 4485 025 5

www.dk-technologies.com

Half-rack modular multichannel and surround sound analyzer with extended CPU speed and memory; measures 19in; up to 32 channels; similar functionality as the PTO600M, but with the additional front-panel preset selections and volume control; extended matrix application software for audio monitoring applications. ●



DIGITAL CONSOLE

TASCAM DM-3200323-726-0303; www.tascam.com

Features 48-channel mixing, DSP and integration with DAW recording systems; based on the DM-24; adds more busses, more effects, more auxes and USB connectivity; its user interface includes 16 rotary encoders with LED indicators to display mixer settings; up to 6.1 surround panning is available; the optional IF-SM/DM surround monitoring interface card adds multichannel monitor and downmix capabilities. ●

TRANSMITTER

**SCREEN SERVICE
ITALIA MDS/MMDS
SYSTEMS**+39 030 2582225; www.screen.it

Microwave Multipoint Distribution Systems; designed for the transmission of amplitude-modulated analog television signals, with combined audio/visual amplification, in the 2GHz to 2.7GHz band; available both in the separate amplification version for each individual channel and in the common amplification version for combined groups of channels; the separate amplification systems consist of a transmitter and, where necessary, of an RF amplifier that directly powers a radiant antenna or a power combiner in the case of multichannel transmission. ●



ENCODER

**EYEHEIGHT ENIGMA DATA
TRANSCODER**

+44 1923 256 000

www.eyehight.com

Enables metadata and machine-control information to be transported through an SDI channel; applications include forwarding camera pan/tilt angle and speed from the point of capture to 3-D FX equipment in a post-production studio; can also be used to deliver recorded-media details such as date, time and clock number. ●

Over
1,000,000,000 seconds
of precision timing



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SHOTGUN MICROPHONE

BEYERDYNAMIC MCE 86 II
631-293-3200
www.beyerdynamic-usa.com

An extremely light and rugged microphone; easy to mount onto cameras or camcorders; the electrostatic transducer element and the hyper-cardioid/lobe polar pattern result in a directional polar pattern with high sensitivity to the intended sound source; two different elastic suspensions are available, both of which suppress footfall sound and vibrations from zoom motors; the frequency response is 50Hz to 1800Hz; can handle a sound pressure of 128dB. ●

SPEAKERS

GENELEC LARGE-THEATER SOUND SYSTEMS
508-652-0900
www.genelecusa.com

Powerful studio monitor loudspeakers; consist of two large speaker enclosures and one or two equipment racks containing active crossovers, power amplifiers and driver protection; are designed for flush mounting in the control room wall, although they may be used free-standing. ●



MULTICHANNEL AUDIO MONITORS

WARD-BECK SYSTEMS AMS8-1 AND AMS8-2
800-771-2556
www.ward-beck.com

Two new audio monitors; AMS8-1 (1RU) and AMS8-2 (2RU) monitors integrated speaker systems and LED bar graph meters; feature four selectable digital inputs (75Ω or 110Ω) that can be PCM, Dolby E or Dolby AC-3. ●

DIGITAL MIXING CONSOLE

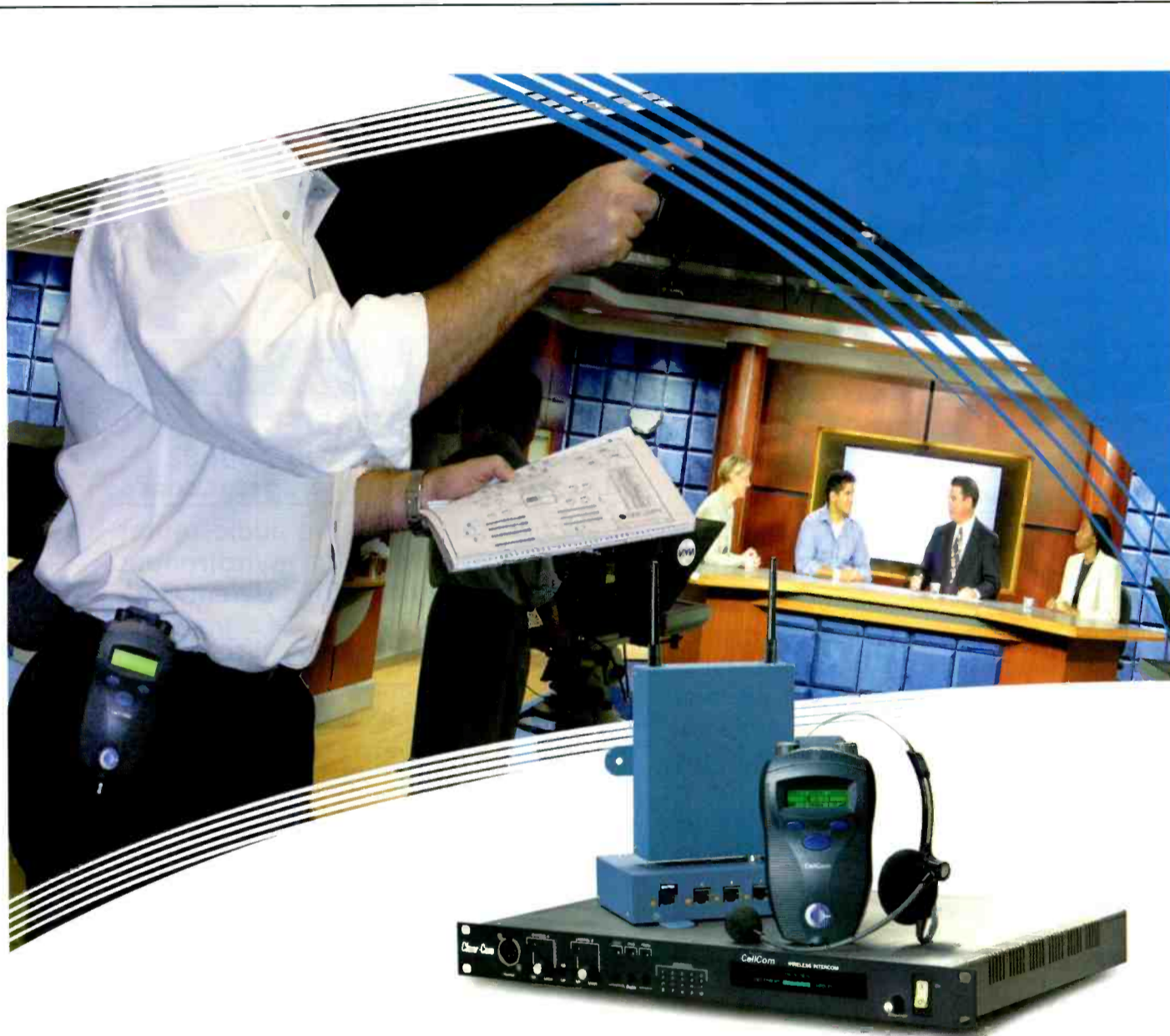
STUDER ONAIR 500 MODULO
+41 1 870 75 11; www.studer.ch

Consists of one or two fader modules, one master module, the meter bridge and a 19in electronics rack, resulting in a six-fader or 12-fader mixing desk; based on the same platform as the OnAir 500 in its fixed frame version; offers the freedom to place the individual modules wherever it is most convenient for the users. ●

DIGITAL CONSOLE

LAWO MC²
+49 7222 1002 0; www.lawo.de

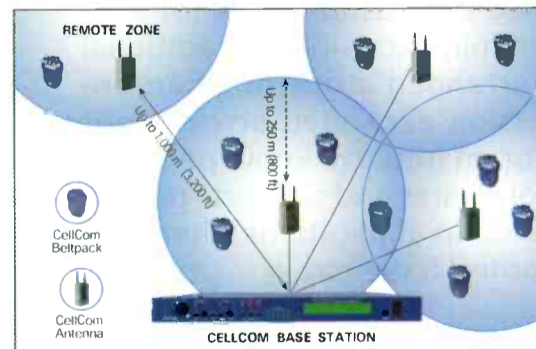
Based around an IBM-ATM data switch; its basic design is fixed, but it has an open architecture, allowing for free placement of the center section modules, user definition of soft key cassettes for functions such as machine control, communications and monitor selection, and for the integration of third-party hardware; all DSP functions are individually and independently available on each channel strip for multi-operator control. ●



Revolutionary Wireless

CellCom digital wireless intercom. Truly new, truly revolutionary. The first stand-alone wireless to offer small group and person-to-person conversations among beltpacks.

- Complete programmability with up to six communications routes per beltpack
- The ability to remote and customize coverage areas, and connect with two wired party-line and four digital matrix channels
- Ten beltpacks per base - all license-free, above the UHF television bands and with no need for frequency coordination.



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AUDIO SYNCHRONIZER

CRYSTAL VISION SYNAD-E

954-788-3334; www.crystalvision.tv

Allows a mixture of Dolby E and AES in the same audio group; either stereo pair within an audio group can be defined as Dolby E; onboard tracking audio delay avoids resampling and corrupting the Dolby E; instead data is separated and processed by a different path before being combined back with the AES into the synchronized SDI video. ●



PROFESSIONAL DIGITAL AUDIO EDITING SOFTWARE

SONY SOUND FORGE 8

800-686-SONY

www.sony.com/professional

Features application scripting, batch converter functionality, automated file format encoding and customizable keyboard mapping; saves paths in rendered media; offers updated regions list and playlist windows; includes CD Architect 5.2 software with CD text support; direct file export to CD Architect software; provides 24-bit, 32-bit/64-bit float/192KHz support; VU meters for RMS playback and record monitoring; CD extraction and track-at-once CD burning. ●

CONSOLE SYSTEM

HARRISON BY GLW TRION 2005

615-641-7200; www.glw.com

Traditional surface architecture eliminates need for a central, shared-knobs control panel; controls and assignments for each channel are fully accessible as traditional vertically arranged strips or in an enhanced version expanded across eight channels for an intuitive know-per-function control; shares and supports remote control panels in applications where distributed control is desired. ●

DIGITAL AUDIO EDIT SUITE MIXER

THE ISIS GROUP (GRAHAM-PATTEN SYSTEMS) D/ESAM 8000

888-622-4747; www.isis-group.com

Employs the Klotz VADIS mixing engine and routing system; features include send outputs, monitor sub-mixer, fader range, user configuration registers and D/MEM write protection. ●



AUTOMATIC DIALOG NORMALIZATION SYSTEM

LINEAR ACOUSTIC LA-5124

717-735-3611;

www.linearacoustic.com

New version of the LA-5124 StreamStacker de-multiplexer/AC-3 splicer; long-term dialogue loudness is measured in an ATSC standard manner; appropriate dialog level value is inserted into one or more pre-compressed Dolby Digital (AC-3) streams by the LA-5124; system is then able to provide automatic control of the long-term loudness of programming without the need for decoding and re-encoding or for manually setting audio metadata parameters. ●

SDI EMBEDDER/DE-EMBEDDERBOARD

SALZBRENNER STAGETEC MEDIAGROUP XSDI AND XSDI 02

818-701-6201; www.stragetec.com

Designed for the digital audio router NEXUS; XSDI allows for asynchronous treatment of signals with different clock sources; on XSDI 02, the SDI signal does not need to be in sync with the NEXUS because the unit implements sample rate converters on the XSDI board, creating a clock boundary between the asynchronous SDI signal and the NEXUS system. ●



AUDIO CONSOLE

WHEATSTONE GEN 6 CONSOLE

252-638-7000

www.wheatstone.com

Incorporates features from the series' larger surfaces into a studio-friendly footprint; integrates with the Bridge digital audio router and allows system-wide access to a station's on-air and off-air audio resources via interlinked CAT5 or fiber-optic cable; features include Ethernet protocol, VDIP configuration, X-Y controllers, eight-character controller displays, AUX sends and increased PRESET options to boost save-recall capability. ●



CARDIOID CONDENSER MICROPHONE

AUDIO-TECHNICA AT2020

330-686-2600

www.audio-technica.com

Features custom-engineered low-mass diaphragm, providing extended frequency response, plus the ability to handle extremely high SPLs; has a fixed cardioid polar pattern to allow isolation of the desired sound source; features a flat, extended frequency response (20Hz to 20,000Hz), high SPL handling capability (144dB) and a wide dynamic range (124dB). ●

WIRELESS MICROPHONE TRANSCEIVER

ZAXCOM TRX900

973-835-5000; www.zaxcom.com

Features a built-in IFB receiver, an RF remote control and a 1.5-hour internal recorder with time code. ●



DIGITAL BROADCAST CONSOLE

SOLID STATE LOGIC C100

212-315-1111

www.solid-state-logic.com

New feature, TouchPan, provides full 5.1 panning access from the central touchscreen, with color-coded displays and comprehensive control of all surround parameter; allows simple setup and control for sophisticated 5.1 productions; comes with new channel TFT graphics, which enhance the operator's overview through per-channel display of processing, panning and source allocations; supports new I/O expansion for the Centuri core. ●

MEDIA ASSET MANAGEMENT SYSTEM

NESBIT SYSTEMS MEDIA LIBRARY SYSTEM 2006 (MLS-2006)

609-799-5071; www.nesbit.com

Multi-user, client/server SQL application allows enterprise-wide access for data distribution; optional WebMLS-2006 Module enables password-protected, 24/7 global access to archived media assets; offers multiple search options and criteria searches, as well as a text retrieval engine. ●

CALREC BROADCAST SYSTEMS

ZETA

SYSTEM PLUS

THE EVOLUTION OF BROADCAST AUDIO PRODUCTION



The System Plus platform represents a new milestone in facilities which are now available across the Alpha, Sigma and Zeta range.

Zeta System Plus offers broadcasters a wealth of upgraded specifications including a fully adaptable and flexible colour TFT metering system that enables user defined metering schemes for individual programmes. Also new is the provision for SNMP reporting to an external network for sophisticated status reporting.

- Up to 48 channel/group faders
- Up to 108 equivalent mono channels
- Automatic redundancy on PSUs, DSP and control processors
- All cards and panels are hot-swappable
- Comprehensive colour TFT metering with full configurability
- 8 stereo or mono audio groups
- 8 auxes, 16 multitrack outputs
- 2 main stereo or 5.1 surround outputs
- Simultaneous LCRS, stereo and mono outputs available from each 5.1 main output
- Console operates independently of PC
- Console and racks boot from power on in less than 20 seconds
- Full control system reset in less than 15 seconds with no loss of audio

COMPATIBLE WITH HYDRA NETWORKING

South and Mid West States:
North East States and Canada:
Western States:

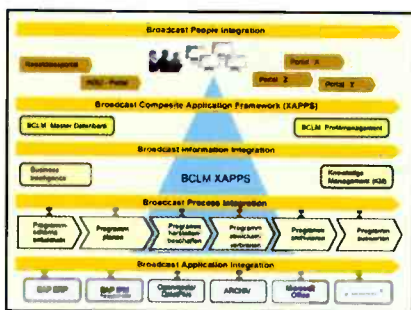
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Email: dsimon@studioconsultants.com
Email: jschaller@audiosdec.com

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SYSTEMS INTEGRATOR

SIEMENS CONTENT LIFECYCLE MANAGEMENT

+49 211 474 31 89

www.siemens.co.uk

For the integration and control of organizational, technical, commercial and administrative business processes in broadcasting companies; defines the best possible integrative control, administration and reuse of content across all business processes; makes the key processes within broadcasting companies transparent for employees, partners and customers. ●

CONTENT MANAGEMENT SYSTEM

STRATEGY & TECHNOLOGY AND SYSMEDIA ITV SYSTEM

S&T: +44 20 7336 7878

www.s-and-t.com

SysMedia: +44 1293 814 200

www.sysmedia.com

End-to-end solution for production and distribution of OCAP/ACAP/MHP-compliant iTV programming; uses SysMedia's Plasma Magenta content and production management technology and S&T's TSBroadcaster DSMCC Object Carousel. ●

OPEN-STANDARDS INGEST SYSTEM

SNELL & WILCOX COMET

212-481-2416; www.snellwilcox.com

Powered by the company's MediaX real-time MPEG-2 PCI encoder; enables broadcasters to create multi-vendor systems with complete interoperability and begin to move away from proprietary server storage and asset management systems. ●



ENCODER

DOREMI LABS ORCA CAPTURE STATION

818-562-1101; www.doremilabs.com

A HD MPEG-2 record and playback solution that supports hit rates up to 160Mb/s; consists of Doremi's ORCA encoder and a DVB/ASI stream recorder housed in a Linux-based 4RU chassis with 500GB of storage; combines all the tools for real-time HD MPEG-2 processing in one package; encodes SDI or HD-SDI to the system's hard drive; the encoding process can be previewed live or played back at a later time via composite, DVI, SDI or HD-SDI video outputs. ●



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NVISION®

You can count on us for the most advanced, cost-effective signal management systems available.

New products for 2005 include:

- > **NEW -- Synapse Modular Media System**
More than 100 modules provide an unprecedented level of multi-function signal processing.
- > **NEW -- NV7512 Expandable Digital Audio Router**
512x512 in only 14RU, linearly expandable to 2048x2048. Handles AES, MADI, and analog I/O.
- > **NEW -- NV5256 Machine Control Router**
256 bi-directional ports in only 8RU, expandable to 512 ports in only 16RU
- > **NEW -- NV5128-MC Master Control Switcher Enhancements**
SD/HD capable processor with enhanced squeezeback effects, and more..



Visit us at www.nvision.tv for a look at our complete range of products

Masters in Digital Audio, Pioneers in HDTV

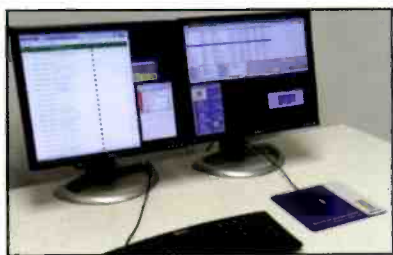


BROADCAST SOFTWARE

TWI INTERACTIVE CONTENT FACTOR (ICF)

617-783-9032; www.twii.net

Product line designed for the ingest, management, production and delivery of digital content; HSM is an add-on module to ICF, enabling near-line archiving in partnership with ADIC; complete ICF in a mobile flight case; NetEdit SDK is a suite of components that enables broadcasters and integrators to build proxy video editing applications using the Windows Media 9 series platform. ●



AUTOMATION

PHAROS COMMUNICATIONS PLAYTIME IA

+44 1189 502 323
www.pharos-comms.com

Designed to meet the growing demand for interactive programming; enables broadcasters to deliver dynamic presentations, such as viewer-controlled games and vote-enabled content; elaborate interactive audience-participation effects can be achieved reliably and efficiently under automated control; next event to air can be based on aggregated audience feedback or other data; ideal for managing audience reactions and playout from live studios. ●

STATION MANAGEMENT SYSTEM

OMNIBUS SYSTEMS G³ CONTROL FOR AUTOMATION

704-319-2231; www.omnibus.tv

An advanced station management system; offers flexibility in providing device access, operation and management over distributed networks for efficient, integrated broadcast operations; encompasses solutions for router control, machine control and integration with signal processing equipment, all from a customizable user interface with access available to multiple local and remote users. ●

NEWSROOM COMPUTER SYSTEM

OCTOPUS NEWSROOM TRADING OCTOPUS5

+420 221 181 511

www.octopus-news.com

Offers integration of assignments, newsgathering, scheduling and transmission; features include wires browsing, SMS alerts, personal notifications, shared user folders, stories planning, script history tracking, multiformat low-res video browsing and MOS 2.8 support. ●

When the broadcast industry needs **rack systems**... we deliver.



We understand the unique challenges faced by broadcast engineers and integrators, and offer engineered equipment mounting solutions to satisfy those requirements. For the past 25 years, when rack systems were needed in broadcast facilities, Middle Atlantic Products has been there with the most comprehensive line of racks and accessories available.

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MRK Series

VRK Series



MA
Middle Atlantic Products, Inc.

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Engineered Mounting Solutions Since 1979
800-266-7225 | middleatlantic.com

Who are

Searching for the right

A man with curly hair, wearing a light blue long-sleeved shirt and grey pants, is sitting in a meditative pose on a rocky beach. He has his eyes closed and a serene expression. In his right hand, he holds a large, green printed circuit board (PCB) with various electronic components. The background shows a calm sea and a clear blue sky.

Who they are

David Watts

Weekdays : Technical Director

Weekends : Meditation Guru

Why you?

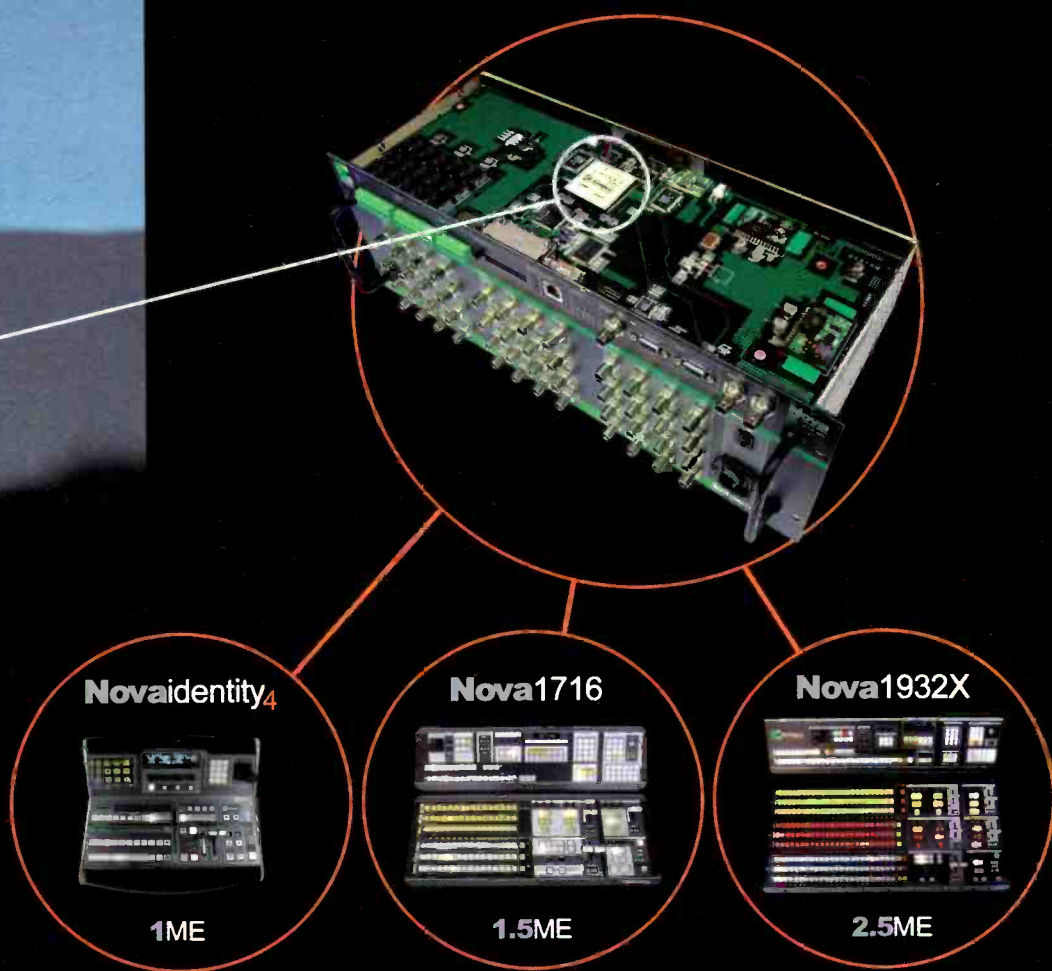
Right path...



Who we are



NovaDigitalSeries



'System on chip' technology
Your journey begins here

[echolab.com / nova](http://echolab.com/nova)

MEDIA INTERFACE ADAPTORS

OMNEON MULTIPOINT 4100 SERIES
408-585-5000; www.omneon.com

Line of media interface adaptors available for Omneon Spectrum media server systems; can support simultaneous playback of both SD and HD MPEG-2 material; features integrated capability for the simultaneous playback of HD and SD content on either the same channel or independent channels; in addition to outputs for SDI video, HD-SDI video, audio, timecode, and control, it also includes connectors to allow for the use of external up- and downconversion equipment. ●



AUTOMATION

FLORICAL SYSTEMS BREAKING NEWS352-372-8326
www.florical.com

Use of preprogrammed sequences makes it possible for a single operator to perform a complex production of insertion of local or network breaking news with a variety of effects that would normally require a production crew. ●

VIDEO AIR CHECK SYSTEM

AXON DIGITAL DESIGN BV TRANSMISSION RECORDING AND COMPLIANCE SYSTEM (TRACS)
+31 13 511 6666; www.axon.tv

Offers a highly reliable platform that fully automates the process of audio and video recordings for 30 or 90 consecutive days; consists of a range of networked digital video recorders connected to a request server that also acts as a Web server and monitoring unit; records and plays out full Vertical Blanking Interval (VBI) content; the recorders, which use the MPEG-2 or MPEG-4 compression format with variable bit rate, are accessed through the request server by means of Web pages. ●

AUTOMATION

VQUAL CERIFY
+44 117 3101 244; www.vqual.com

An automated system for verifying/checking content prior to transmission or use; all aspects are checked, including compliance/correctness to video and audio standards, video formats, resolutions, bit rates and video quality. ●



EDITING APPLICATION

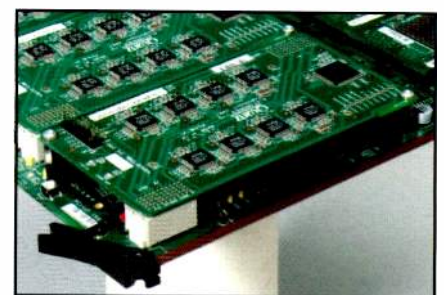
CRISPIN RAPIDPLAYX
919-845-7744
www.crispincorp.com

On-air playback application; provides playlist monitoring and control, allowing facilities to create and load playlists, edit events, issue playlist commands and monitor event status; automatically loads daily program and record schedules for 24/7 operations and instantly updates events when new material is available on the video server or is updated in AssetBase, Crispin's Web-enabled database. ●

DIGITAL NEWS PRODUCTION

JUST EDIT VSNNEWS
+34 937349970; www.vsn-tv.com
www.justedit.es

A powerful, entirely integrated news system that allows text/video editing in the same application; covers all issues in a uniform environment, including rundown planning and creation, resource management, word processing and video feed recordings, as well as archive storage, organization, and cataloging; is completely integrated with the vsnarchive system, the real-time titling system, the teleprompter, and the automated Web publishing of news; also included in the seamless integration is the shared video and audio editing, with voice over from journalists computers. ●



MASTER CONTROL PRODUCT

QUARTZ ELECTRONICS QMC-2
530-265-2815; www.quartzus.com

Can switch between multiple HD and SD signals and formats; provides enhanced features, including 16 channels of audio with internal Dolby E decoding, two layers of internal logo storage/keying with animation capabilities, and three external key layers. ●

GET THE COMPLETE PICTURE...

Zandar
TECHNOLOGIES...WITH
ZANDAR TECHNOLOGIES

Zandar Technologies is a world leader in the provision of multi-window display solutions – with everything from simple screen splitters to advanced visual display systems. The virtual monitor wall concept is proven – don't be left with an outdated monitor stack, when you can have a display wall that is configurable, dynamic, and controllable. We have product to match your specific input sources, for display devices from CRT to rear projection, with extensive control options & interfaces. With Zandar you can be sure of excellent image quality, unsurpassed system flexibility and genuine value.

- Fusion Series:** Modular 3RU (26 inputs) and 1RU (8 inputs) racks; input cards for composite video/Y-C, SDI, HD-SDI and VGA sources; high resolution RGBHV output.
- Predator Series:** Fixed configuration solutions for 4, 12 or 16 video inputs; select from composite video, Y-C, SDI or HD-SDI inputs; RGBHV output.
- DX Series:** For 4, 8, 12 or 16 composite or SDI video inputs (auto-detecting); high quality composite, component, SDI and VGA outputs.
- MX Series:** For 4, 8, 12 or 16 NTSC or PAL inputs; composite, component or VGA outputs; preset layouts or custom layouts on request.

Think Zandar for:

- Master Control Rooms
- Command & Control
- Security & Surveillance
- Broadcast Multi-video
- Mosaic & Interactive
- Audio Visual Presentations
- & Audio Monitoring Channels
- Video-conferencing

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Tel: +353 1 2938 966 Fax: +353 1 2936 955
E-mail: sales@zandar.com

US OFFICE:
1970 E. Osceola Parkway, No. 330,
Kissimmee, FL 34743, USA.
Tel: 321 9390 457 Fax: 321 9390 458
E-mail: advancedcms@msn.com

WWW.ZANDAR.COM

FusionPro



DX



Predator



TELEVISION AUTOMATION SOFTWARE

DIGITAL TRANSACTION GROUP ECLIPSE
800-243-2001
www.dtgtv.com

Eclipses traditional automation with a new technology framework and architecture; employs standard IT networking, non-proprietary hardware and high-performance SQL database. ●

DIGITAL SIGNAGE/ BROADCAST SYSTEM

ON-AIR SYSTEMS INFOKAST
800-379-0809
www.on-air-systems.com

Delivers graphic information and live video from a single workstation; enables users to integrate up-to-the-minute news, weather, sports results and stock market information into live and prerecorded video in a fully customizable screen layout; designed for a range of applications, including television broadcasting and point of sale, information points in airport terminals, underground stations and shopping malls. ●

AUTOMATION SYSTEM

SUNDANCE DIGITAL TITAN
972-444-8442
www.sundancedigital.com

Remote control functionality; capable of controlling hundreds of playout channels within a single facility or play lists at multiple remote locations. ●

NEWSROOM AUTOMATION SOFTWARE

DALET DIGITAL MEDIA SYSTEMS DALETPLUS NEWS SUITE
212-825-3322; www.dalet.com

Source material, work in progress and finished packages are shared and instantly available on the desktop or remotely through secure Web access; metadata is captured automatically, and repetitive tasks can be automated; integrated asset management and archive capabilities provide access to tape and DVD libraries. ●

NEWSROOM AUTOMATION

PATHFIRE NEWS CONNECT
770-619-0801; www.pathfire.com

Integrates Digital Media Gateway (DMG) functionality into AP ENPS and Avid iNEWS newsroom computer systems (NCS); content is added automatically to the NCS as soon as it arrives on DMG server; users work within a single interface and area able to browse, view low-resolution clips and drag-and-drop script information into news scripts from within their NCS. ●



Looking at BAS ? We're ready when you are ...

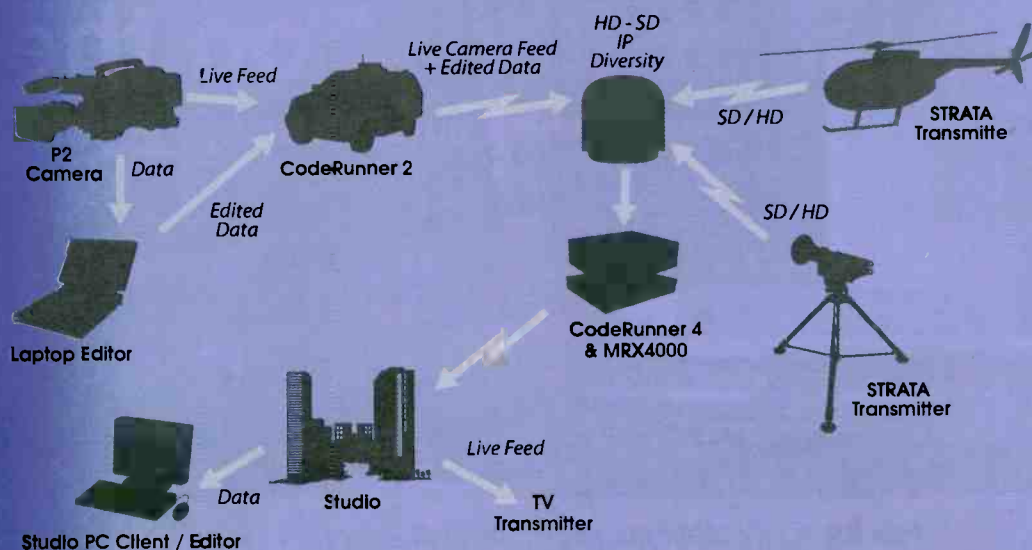
We thought you should know what MRC offers for the BAS conversion: EVERYTHING!

By any measure, MRC has the most complete line of microwave systems available..

- STRATA Airborne & Portable HD/SD ENG - Solutions for everyday operation.
- CR4 Central Receiver - New BAS Channel plans and IF filter selections
- MRX4000 - Universal demodulator and MPEG decoder with MRC Link Quality monitor
- CR2 ENG Van Transmitter - User friendly BAS channel plans & presets, source name ID
- DAR Plus 2 GHz STL/ ICR - Fully compliant with revised FCC rules for 12 MHz channels
- SCM4000 - Digital modem supports user choice of interface, modulation, and MPEG coding.

For the BAS relocation, or for other microwave needs, we offer proven technology that has steadily evolved to support digital video transmission. MRC continues to be a reliable and stable source that the broadcast industry can rely on for timely shipments, regardless of the workload.

Looking at the Future ? So are we !



MRC has been providing world-class microwave transport solutions for over four decades. We made the first solid state STL's, and we were there when ENG was born. As future trends develop, MRC will continue to lead with innovations and applications.

MICROWAVE RADIO COMMUNICATIONS



CAMERA BATTERY

PAG L95 V-MOUNT
818-760-8285
www.pagusa.com

A digital Li-Ion battery offered in three formats: V-Mount, Snap-on (Anton/Bauer), and PAGlok; combines power, accuracy and reliability; the 14.8V 6.5Ah pack has a capacity of 95 watt-hours and weighs 745g providing increased run-time for both a camcorder and a camera light up to 35W; two L95s provide enough power for a day's shooting with most camera and lighting set-ups.

DV TAPE

PANASONIC ADVANCED MASTER QUALITY (AMQ)
201-392-4127
www.panasonic.com/broadcast

Includes a new surface treatment process that improves the thickness, quality, reliability and durability of the tape's diamond-like coating and improves interaction with its dry lubricant; the new Mini-DV and standard DV tapes offer better still photo performance and improvements against head clogging; provides an easy-to-write-on cassette label where the label is already affixed to the tape, and a two-way open soft case.

CAMERA BATTERY

IDX SYSTEM TECHNOLOGY
NP-L50/NP-L50
310-891-2800; www.idx.tv

Li-Ion battery; weighs less than 1lb; lasts nearly twice as long per use as typical NiCd batteries and never need a discharge.

CONVERTIBLE CAMERA

PANASONIC AW-E860
201-392-4127
www.panasonic.com/broadcast

A native 16:9 2/3in 3-CCD convertible camera, and complementary accessories to bolster Panasonic's line of remotely-controllable, multi-purpose cameras; new accessories include the AW-PH400 high-speed pan-tilt head, AW-PH360 pan-tilt head, AW-RP400 pan-tilt controller, AW-RL400 rolling unit, AW-CB400 camera control unit and AW-RC400 cable compensation unit.



MULTIPURPOSE HD CAMERA

SONY HDC-X310
800-686-SONY
www.sony.com/professional

Includes an optical fiber interface; allows cable runs to be increased to a maximum of 3300ft; optional interface cards allow for inexpensive XGA monitoring, SD signal output to integrate with an existing SD system; and i.LINK IEEE-1394 (HDV) digital interface connection for HD recording on Sony's professional HDV system; scanning modes include 59.94i, 50i, 29.97psf, 25psf and 23.976psf, with 2:3 pulldown.

CAMERA CONTROL SYSTEM

TELEMETRICS CPS-ROP-S
201-848-9818
www.telemetryinc.com

Provides flexible architecture for control of up to 50 cameras or devices; employs a GUI for ROP controls and hardware interface; features joystick trim control of pan, tilt, zoom, focus, iris and master pedestal to emulate manufacturers' remote operating panels; provides full camera controls and presets for various Hitachi, Sony and Panasonic cameras.

WIRELESS CAMERA SYSTEM

RF CENTRAL RFX CLIP-ON
717-249-4900; www.rfcentral.com

No cable needed from truck to camera; no direct line-of-sight needed between camera and truck; package includes transmitter in housing (two audio sub-carriers); Omni Tx antenna or directional antenna with cable and tripod; receiver rack-RFXtreme ENG in portable case with removable rack ears; Rx antenna with cable set and tripod; camera mounts for Anton/Bauer Gold or V Type; assorted power, RF, audio and interconnecting cables; Pelican 1550 transport case; external down-converter.



FIBER-OPTIC CONNECTOR FOR HDTV CAMERAS

FISCHER CONNECTORS
1053 SERIES
800-551-0121;
www.fischerconnectors.com

Co-developed with Corning; fiber-optic contacts enable users to field-assemble and field-repair HDTV camera connectors anywhere; eliminates polishing fiber-optic elements as well as preparing special epoxies when using the new Series 1053T connector.

ANALOG AUDIO CABLES

BELDEN CDT BRILLIANCE CABLE
800-235-3364; www.belden.com

Plenum versions of company's popular 9451 and 9451D analog audio cables; designed for line-level audio connections, audio distribution equipment, and studio wiring with room-to-room and plenum versions.

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 on the line,
 which automation system will you choose?**

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 who already rely on Florical automation.



The Leader in TV Automation



4581 NW 6th Street, Gainesville FL 32609
 Ph: 352.372.8326, Fax: 352.375.0859
sales@florical.com, www.florical.com

WIRELESS CAMERA SYSTEM

LINK RESEARCH LINKXP
+44 1923 200900 www.linkres.co.uk

Lightweight; low power consumption; signal delay allows live interviews with no visual/sound delays when used with wireless microphones; can be mixed with wired cameras with no signal delay problems; its live feeds can be edited with pictures from ordinary cameras. ●

CAMERA PRODUCTS

ABELCINE TECH SALES AND RENTAL EQUIPMENT
888-223-1599; www.abelcine.com

Sales and rental equipment suppliers offering comprehensive film, HD and digital camera solutions; specializing in Panasonic DVCPRO HD and SDX-900 camera systems, Aaton 16mm and 35mm, Aaton Cantar-X field recorders, Heden motors, Benz wireless control systems, Canon, Fujinon, Losmandy, Chrosziel, technical and post consultation. ●

TEST AND ANALYSIS

VQUAL APPROVE
+44 117 3101 244; www.vqual.com

For analysis, test and optimization of compressed audio, for codec engineers either developing or evaluating audio codecs; provides detailed error checking, syntax analysis, and performance reporting, with the aim of saving weeks or months of development time. ●

CAMERA LENS

CANON HDTV AND SDTV REMOTE CONTROL LENSES
516-328-5000
www.canonbroadcast.com

Based optically on the Canon HD ENG/EFP lenses of the same specifications, with the advanced capabilities of the HDxs system and the Power Optical System with the X-Element; the SD line includes the J22ex7.6B ITS, J17ex7.7B ITS and wide-angle J11ex4.5B ITS; all six lenses come with a manually controlled 2X extender, and can be paired with an optional motorized version. ●



CAMERA LENS

CANON DIGI SUPER 100XS
516-328-5000
www.canonbroadcast.com

A triple digit zoom lens; incorporates Canon's Image Stabilizer technology; features a focal length of 9.3mm to 930mm (18.6mm to 1860mm using the 2X extender), a speed of F/1.7, and a weight of 23.5kg (50.18lbs); provides viewers with shake-free images that offer incredible detail; the M.O.D. from lens front is 3.0m. ●

WIRELESS MICROPHONE

AZDEN 100LT
516-328-7500
www.azdencorp.com

Offers 63 user-selectable channels in the 794MHz to 806MHz band; includes the 100UPR receiver and 10BT body-pack transmitter, both of which are housed in small, 3 7/8in x 2 3/8in x 13/16in cases, ideal for smaller digital cameras. ●



KAHUNA - THE PRODUCTION SWITCHER THAT DEFIES DEFINITION

Kahuna - the world's first true multi-format SD/HD production switcher

Standard definition? High definition? With Kahuna you don't have to worry. It can handle both of them, either separately or at the same time. Even more remarkably, thanks to a new technology called FormatFusion, it can integrate any SD material, such as camera feeds or archives into HD productions, seamlessly, without the need for upconversion.

Kahuna is the most versatile switcher on the market and the most economical. It enables you to manage the transition to HD without having to re-equip with all-HD sources and without having to put an upconverter on every SD input.

If you have no plans to go HD just yet, you can install in SD only. Then when you are ready, switch to full multi-format mode using software only, with no operational disruption.

www.snellwilcox.com



TRIPOD SYSTEM

SACHTLER ENG 75/2D
516-867-4900; www.sachtler.com

Tripod systems for DV cameras; compact dimensions — weight is 2.3kg / 5.1lb, payload is 20kg / 44.1lb, height minimum and maximum are 33.5cm to 146.5cm and 13.2cm to 57.6cm; transport length is 65cm/25.6cm; the Touch & Go system enables fast changeover, so camera operators can go from using the tripod to shooting from the shoulder within a matter of seconds; in combination with fluid heads DV 4 II and DV 2 II, it is ideal for MiniDV camcorders starting from around 1kg/2.2lb. ●

HD LENSES

THALES ANGENIEUX 70X HD OB/SPORTS LENS
+33 0 477 90 78 00
www.angenieux.com

Designed for studio and sports applications; features unique advanced display system; new 26X HD telephoto zoom lens also displayed, which provides extended focal range. ●

HD AND DV CAMERA INTERFACES

MIRANDA TECHNOLOGIES
DVC-802/822

561-477-6124; www.miranda.com

HD downconverter and DV encoder for Sony and Panasonic HD cameras; provides a full range of outputs, including 1080i, 1080p and 720p; features 10-bit downconversion. ●

FOCUS ASSIST FOR LENSES

FUJINON PRECISION FOCUS ASSIST SYSTEM

847-945-8923; www.fujinon.com

A built-in feature that addresses precise focus issues in HDTV production stemming from the format's shallow depth of focus and the lack of size and resolution in camera viewfinders; will be available on the company's XA101x8.9BESM HD zoom, HA22X7.3BRD HD EFP lens and the HA13x4.5BRD-S28K HD wide-angle lens. ●



TELEPROMPTER

TELESCRIPT FOLD AND GO

888-767-6713; www.telescript.com

Enhancements to line of Fold and Go teleprompters; available in 8in, 13in and 15in value and 12in and 15in broadcast/studio quality configurations and are built to move from the studio to the field; feature precision-cut aluminum parts, solid construction, glass beam splitters, high-quality LCD displays and the ability to mount to any ENG or DV camera. ●

PROMPTER

LISTEC VIDEO Z-PROMPTER SERIES
561-683-3002; www.listec.com

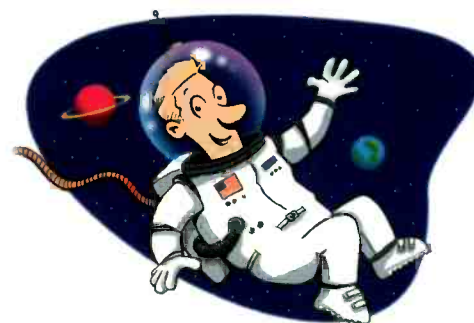
Mounts the prompter with camera over the pan head's balance point; eliminates need for a large balance plate and counterbalance weight; provides a range of adjustment; easy to transport; eliminates stress on tripod systems; can be supplied with either a studio or fold-down hood; available with flat-panel displays through 15in; can be configured as a Presto system. ●



MULTI-LAYER GRAPHICS

INSCRIBER INCA STUDIO HD
519-570-9111; www.inscriber.com

For real-time, multi-layer graphics for broadcast and post-production; provides real-time clip-to-clip transitions, real-time organic dissolves and multichannel effects on a single channel. ●



SUBTITLE SOFTWARE

TM SYSTEMS QC STATION AND RENDERSTATION

818-508-3400

www.tm-systems.com

QC Station, an independent quality-control module for individual desktop use, alters the traditional workflow of a dubbing and/or subtitling project; RenderStation is a bitmap generation module that takes subtitling scripts in the form of Word documents created by the company's TranStation. ●

LOGO GENERATOR

SAV LG50TL

+33 1 53 38 22 00; www.sav.tv

Logo (still or animated) and text generator; can be fitted in an extensive range of frames (RK6, RK6-D, RK6-3, RK14L); is 100 percent compatible with the MX-AIR, allowing users to directly feed logo, animation, clock and text generation into the MX-AIR. ●



Intelligent Master Control

World leader in scalable multi-channel playback



NEW QMC-2

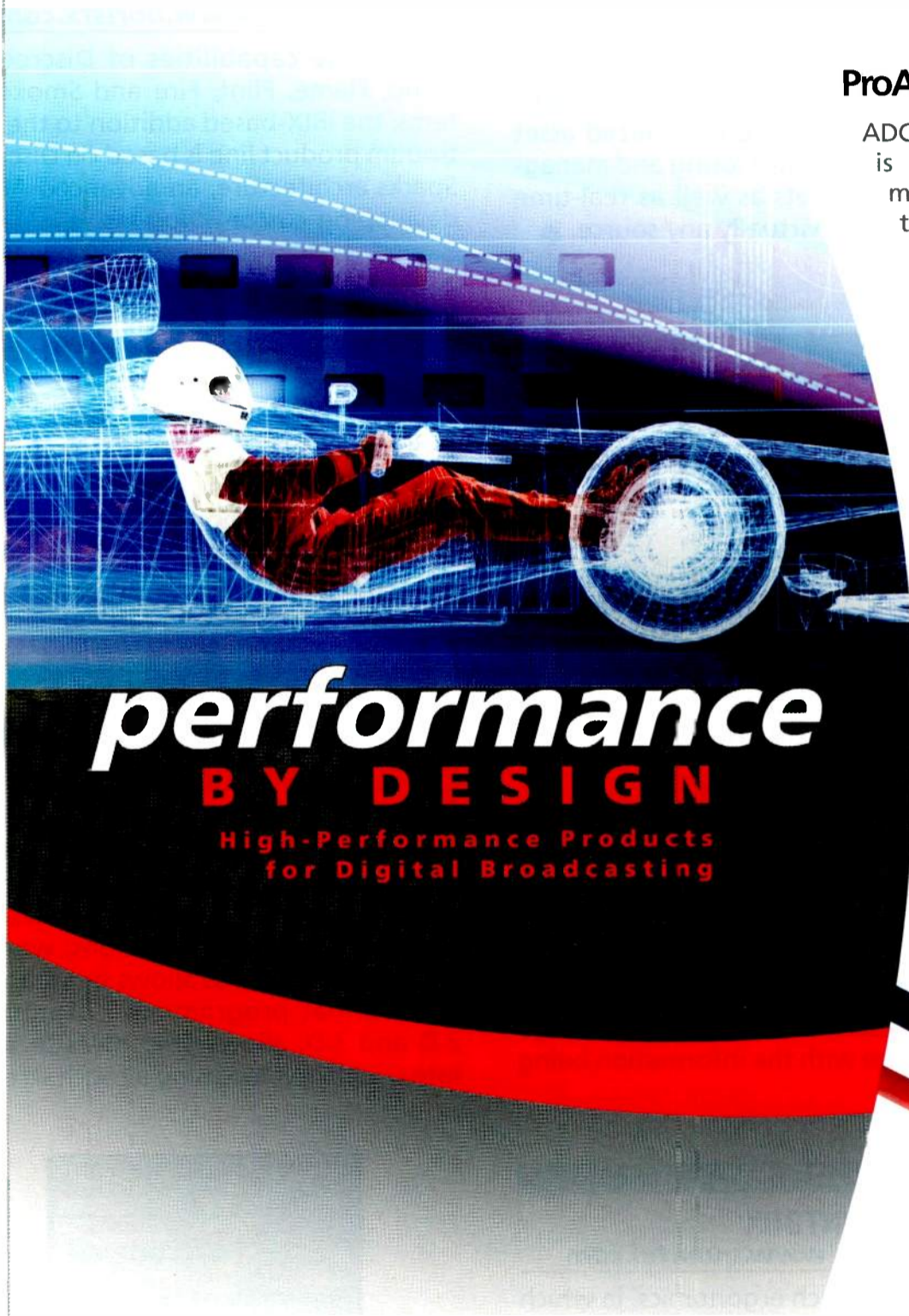
- HD or SD operation from a common hardware platform
- Handles dual stream Dolby E for 16 channel audio
- Dual logo stores and up to three external keyers

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sales@quartzus.com

www.quartzus.com





ProAx™ Triaxial Camera Connector

ADC's New ProAx™ Triaxial Camera Connector is designed with peak performance in mind. ProAx is loaded with patented features that ensure the greatest reliability, flexibility and compatibility with other vendors' connectors:

- MIL-STD 202 tested and qualified
- Gender reversible and interchangeable with five global formats
- Field repairable center conductors

Performance is inherent in every one of our copper and fiber audio, video and data products which are built to provide unmatched performance and withstand the rigors of real world use.

ADC offers outstanding pre/post-sale engineering and support as well as competitive pricing and the longest product warranty in the industry.

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For a free copy of ADC's 13th edition broadcast product catalog, call 1.800.366.3891 ext. 20000. Or visit adc.com/broadcast.



DIGITAL SIGNAGE PLAYER

KEYWEST TECHNOLOGY
MEDIAXTREME MX3
913-492-4666
www.keywesttechnology.com

Delivers IP addressable control over playback of video and graphics displayed on a single PDP or LCD panel or hundreds in digital signal network; features a new graphical user interface with four timelines adding drag-and-drop simplicity to building playout events, advanced playback scheduling software and character generator functionality with Tru Type support. ●

DIGITAL SIGNAGE SYSTEM

KEYWEST TECHNOLOGY
MX5 PLUS HD
913-492-4666
www.keywesttechnology.com

Offers multimedia messaging control functionality, character generator and seven independent element layers of the original MX5 with the addition of new capabilities; allows users to input NTSC source video and, with a built-in video scaler, up-res the video to the native resolution of the digital signage display; supports 4:3, 16:9 and 9:16 aspect ratio display with a high-resolution RGB progressive scan and DVI output. ●



DIGITAL SIGNAGE CREATION AND DISPLAY

INSCRIBER INFOCASTER
519-570-9111; www.inscriber.com

Designed to quickly create attractive multi-zone layouts for immediate digital display; users can integrate crawls, rolls, animations, clocks, video and audio clips. ●

TELEPROMPTING PRODUCTS

AUTOSCRIPT ACTIVEX CONTROLLER
203-338-8356; www.autoscript.tv

Enables a prompter to be managed and scrolled from any newsroom client; includes updates to +WinPlus+ Prompting Software, which operates as a standalone system or can be networked to any major automated newsroom system; TFT flat-panel on-camera prompters are available in eight sizes, ranging from 6in to 20in, including a new 17in version. ●

AUTOMATION

VERTIGOXMEDIA
PRODUCER XMEDIA
SUITE VERSION 3.5

514-397-0955
www.vertigoxmedia.com

Users can browse a library of templates stored in a central Xmedia server, select a template style, and automatically insert finished graphics and animations directly into the video timeline; templates can include links to live data sources as well as preprogrammed production logic that automatically updates elements based on user selections; Graphics Work Order Management feature enables users to generate work orders for new graphic elements electronically; acts as a centralized asset management system, storing and managing all digital assets as well as real-time data feeds from virtually any source. ●



GRAPHICS

ACCUWEATHER LOCAL
ACCUWEATHER CHANNEL
814-235-8636
www.accuweather.com

An automated around-the-clock loop of customized local weather and news information designed by the company's team of weather and graphics experts with opportunities to include local live content; available in SD or native HD; allows advertisers and sponsors to package their message with the information being delivered. ●

GRAPHICS PLATFORM

QUANTEL PAINTBOX
203-972-3199; www.quantel.com

Features one-touch ergonomics, in which all the tools are just where the designer needs them — not hidden behind multiple layers of pull-down menus; a pen tablet and hand unit interface further speeds the design process with two-handed operation. ●

VISUALIZATION SYSTEM

SILICON GRAPHICS (SGI) SILICON
GRAPHICS PRISM
650-960-1980; www.sgi.com

Handles the 4K requirements of digital cinema mastering and digital intermediates; is modular and scalable. ●



PLUG-IN FILTERS FOR EFFECTS

BORIS FX VOLUME II OF BORIS
CONTINUUM COMPLETE FOR
DISCREET SPARKS
617-451-9900; www.borisfx.com

Extend the capabilities of Discreet Inferno, Flame, Flint, Fire and Smoke systems; the IRIX-based addition to the Continuum product line is based on Discreet's Sparks architecture, an advanced API for developing custom plug-ins. ●

BROADCAST MAPPING SOFTWARE

CURIOUS SOFTWARE TRAFFIC
PRODUCER
505-988-7243
www.curious-software.com

Creates broadcast-quality maps for illustrating traffic reports; uses predefined design templates to generate rundown of still or automatically-animated maps showing traffic flow and planned or unplanned incidents. ●

GRAPHICS PLATFORM

E-MEDIIVISION.COM POINT HD
310-545-9731
www.e-mediavision.com

HD broadcast graphics presentation system; designed for sports, news and weather program applications; works in HD and SD, as well as allows simultaneous dual-format programming graphics in 2-D and 3-D; allows presenters to annotate over live video using a touch screen. ●



3-D ON-AIR GRAPHICS

FOR-A DIGISTORM
714-894-3311; www.for-a.com

Centered on Brainstorm Multimedia's eStudio virtual studio software program; features include VS Virtual Studio, VS/RCG Virtual Studio for construction of both a simplified virtual studio and real-time computer graphics, and Maya 3ds XSI, which enables 3-D files and data to be imported. ●

UTAH-400

It Just Keeps Getting Better...and Better



The UTAH-400 High-Density Digital Routing Switcher, already the world's most advanced switcher, now offers even more:

Automatic crosspoint redundancy in all matrix sizes UTAH-400

The UTAH-400 allows you to protect your critical signal paths against interruption with *AUTOMATIC* internal redundancy.

Three Frame Sizes -- 64x64, 144x144, and 288x288

You can use the UTAH-400 for any digital router application from the smallest utility router to the largest central matrix.

In any size, all UTAH-400 systems offer the same set of world-class features -- and the industry's lowest prices:

- Full time Input / Output Signal Monitoring
- Reduced Power Consumption and Rack Space Requirements
- SD/HD Compatibility

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SCIENTIFIC**

New Directions in Digital Switching

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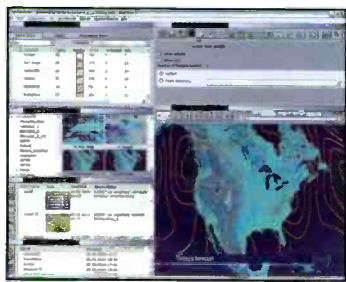
2005

PRODUCT SOURCE

DIGITAL INTERCOM SYSTEM

TRILOGY BROADCAST MERCURY
 +44 1264 384000
www.trilogy-broadcast.co.uk

Offers G722, 7kHz quality voice communications over an IP network; matrix-free system without the requirement for central TDM switching; multiple independent voice channels from each station; intelligent integration with existing digital matrixes giving all Trilogy intercoms an upgrade path to communicate over IP networks. ●



REAL-TIME WEATHER SOFTWARE

VIZRT VIZ/WEATHER 3D
 323-908-7004; www.vizrt.com

Version 1.6 meets the fast-paced demands of local weather events; powered by the company's Viz/Engine, the product provides the ability to control, switch and manipulate weather data and graphics in seconds; data includes temperature, wind speeds and direction; weather symbols, 3-D maps, radar maps and weather alerts can be displayed automatically with corresponding graphic elements in real-time using pre-made templates. ●



WIRELESS INTERCOM SYSTEM

EARTEC TD 900
 800-399-5994; www.eartec.com

Available as a stand-alone system and can interface with wired intercoms such as Clear-Com, RTS and Telex; a simple interface allows wireless remotes to communicate as though plugged in with a cable; operates without base station repeaters; is powered by rechargeable NiCd batteries; has a 1/4mi range. ●



DIGITAL MATRIX SYSTEM

CLEAR-COM ECLIPSE 32
 510-496-6666; www.clearcom.com

A digital matrix intercom frame in a 1RU chassis; offers 32 full-duplex communication ports, plus four extra four-wire ports; builds on the capabilities of Matrix Plus 3; supports the same Clear-Com i-stations and ICS digital matrix panels and interfaces as the larger Eclipse 208 frame, and is programmed and controlled with the same ECS-WIN software suite. ●



AES INTERFACE BOARD

DELEC AES INTERFACE FOR ORATIS
 +49 9545 440 0; www.delec.de

New interface board for company's ORATIS intercom system; allows for forwarding intercom signals over AES; with add-on board installed, ORATIS can use virtually any conventional audio router for signal distribution; unit is plugged into the ORATIS mainframe and connected to the AES ports of the audio network. ●



STUDIO LIGHTING

VIDESSENCE SHOOTER
 626-579-0943; www.videssence.com

New addition to the line provides 57W intense light output from a lightweight compact housing; measures 10in x 6in x 6.5in; permanent intensifier/barn doors can focus or shield the light intensity; adjustable mounting yoke allows rotation for ease of focus and may be locked into place. ●

DIGITAL/ANALOG TRANSMITTER

NUCOMM NEWSCASTER VT2
 908-852-3700 www.nucomm.com

Includes a rack-mounting control unit and mast-mounting RF unit on this digital/analog ENG/OB van transmitter; available in single and dual band; features include an internal 4:2:2 MPEG-2 encoder, COFDM modulator, ASI, SDI and composite inputs; optional 10W digital PA is available. ●

COAX CABLE

GEPSCO VDM260
 800-966-0069; www.gepco.com

An ultra-miniature high definition coax cable; low weight and small size; features a 26-gage solid conductor that provides lower attenuation and superior mechanical integrity; ideal for mobile production trucks, has a broadband foil and braid shield that offers RF/EMI protection and structural integrity; low structural return loss up to 3GHz; meets and exceeds the bandwidth required for a 1.485Gb/s HD video transmission; can be used with SDI digital video, analog video and digital audio formats. ●

Fair and Balanced Color

It's true. Kino Flo's telegenic ParaBeam 400 studio fixture delivers 3,000 Watts worth of tungsten soft light on 2 Amps—without the heat and without compromising your picture's color quality! The ParaBeam's cool brilliance owes to a special parabolic reflector that practically turns light waves into projectiles.

As for image quality, the fixture uses Kino Flo designed True Match® lamps that display professional tungsten and daylight balanced illumination (CRI 95). A center mount lets you rotate between a horizontal and vertical beam. Slide in your choice of focusing louvers to spot the beam down to a 90°, 60° or 45° pool of light. DMX, analog and manual controls can dim the light to black. Like all Kino Flos, the ParaBeam is flicker free and dead quiet.

If you think the ParaBeam looks good on paper, wait 'til you see how it looks on video.

ParaBeam

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www.kinoflo.com

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Easy to clean. Innovative. Reliable. Canare's Hybrid Fiber-Optic Camera Connectors feature a high-quality new fiber design that ensures optimal performance.



Tech Notes

Outer diameter of the clad is 0.125mm with a core of 0.010mm. Although the cables have superb transmission quality, even a minuscule speck on the core can have a disabling effect and cause a signal to be lost. Canare recommends proper maintenance and verifying the connector before use. Simply detach the alignment sleeve along with the insulator part for easy cleaning.



before cleaning



after cleaning

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531 5th St., Unit A San Fernando, CA 91340
Tel: 818 365 2446 Fax: 818 365 0479

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60E, 42nd St., Suite 2306 NY, NY 10165
Tel: 212 682 9661 Fax: 212 682 9480

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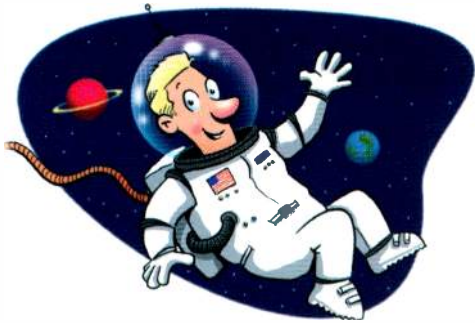
CANARE

www.canare.com

AERODYNAMIC SNG ANTENNA

ND SATCOM AG SKYRAY COMPACT
214 231 3400; www.ndsatcom.com

Combines need for a powerful uplink with roof-top box fixed on standard mounts; compact Jet Box-like casing houses a high-performance SNG antenna; accommodates company's 400W TWT amplifier or redundant SSPA configuration; system can be moved to another vehicle quickly and easily. ●

**TRANSMITTER**

BROADCAST MICROWAVE CARRY-CODER II

800-669-9667; www.bms-inc.com

A portable module for video cameras; performs wireless digital transmission of video, audio and user-defined private data; can be used in a backpack configuration or plugged directly to the back of most professional video cameras; mechanical adapters are available on request for most professional video camera models; capable of driving a power amplifier in vehicle or helicopter applications; performs MPEG-2 encoding, COFDM digital modulation and RF amplification in a compact package. ●

FIBER-OPTIC TRANSMITTERS/RECEIVERS

EVERTZ 7707RGBT; 7707RGRB DVI/RGBHV

905-335-3700; www.evertz.com

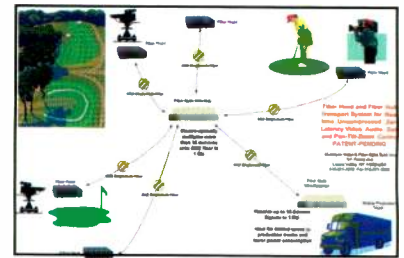
For DVI and RGBHV video signals; includes DVI/RGBHV versions, DVI/RGBHV with two channels of analog audio and DVI/RGBHV versions with analog audio, keyboard and mouse signals for KVM applications; features DVI or RGBHV over a single fiber; supports up to 1920 x 1200 WUXGA resolution; both DVI and RGBHV outputs available simultaneously on receiver; superior digital data transmission; comprehensive local and remote (via SNMP) signal and card status monitoring; supports both single-mode and multi-mode fiber; optional two-channel stereo analog audio; optional keyboard and mouse. ●

OPTIC TRANSPORT SYSTEM

MULTIDYNE RGB-5000 VIDEO, AUDIO, KEYBOARD AND MOUSE CONTROL

516-671-7278; www.multidyne.com

Features improved resolution; provides a long haul, transport solution for high-quality, up to 1600 x 1200, high-resolution, RGB or VGA video sources via one fiber; provides a total analog bandwidth of up to 600MHz; has a data throughput of 3.125GB/s with no compression or very low color space compression; automatically detects the horizontal and vertical sync configuration with support for sync on green, CS sync and separate HS and VS sync inputs; systems are available to transport RGB. ●

**FIBER-OPTIC TRANSPORT TECHNOLOGY**

MULTIDYNE FIBER OPTIC PLATFORM
516-671-7278 www.multidyne.com

Simplifies the architecture of a fiber-optic network; reduces equipment costs; simplifies design and maintains uncompressed, digital, broadcast-quality video from end to end; reduces the equipment required at the central node from eight to 10; the Fiber Hub unit has one high-speed fiber-optic output for the main fiber trunkure; the equipment complexity and size is also reduced at the destination point from three to four down to one to two rack-units. ●

VIDEO SERVER

AI-PIXEL PLAYOUT SERVER

+31 6 21 884 675; www.ai-pixel.com

Designed for small to medium sized TV station operations; offers compliance with all standards (SDI, PAL, NTSC, analog, digital), compliance with automation servers (VDCP), easy operation, easy import/export, easy to use, high functionality Playlist, allowing the user to make "on the fly" changes in the Playlist without interrupting any simultaneous operations, guaranteed high quality and reliability. ●

TEST TOOLS

INEOQUEST TECHNOLOGIES

IQSOFTWARESUITE

508-339-2497;

www.IneoQuest.com

Supports MPEG-2, H.264, Windows Media 9, VoIP and media delivery index measurements; includes IQMediaStim, IQMediaAnalyzer and IQMediaMonitor; features a software decoder, recorder, and thumbnail viewer for visually examining MPEG-2 and H.264 streams, as well as VoIP test and generation support for qualifying streaming voice over IP. ●

DEPRESSED COLLECTOR IOT TRANSMITTER

ACRODYNE (AI) QUANTUM

888-881-4447;

www.acrodyne.com

Designed to operate efficiently in either digital or analog service; is field-convertible; uses e2v ESCIOT water-cooled tubes; engineered to provide a high level of energy efficiency. ●

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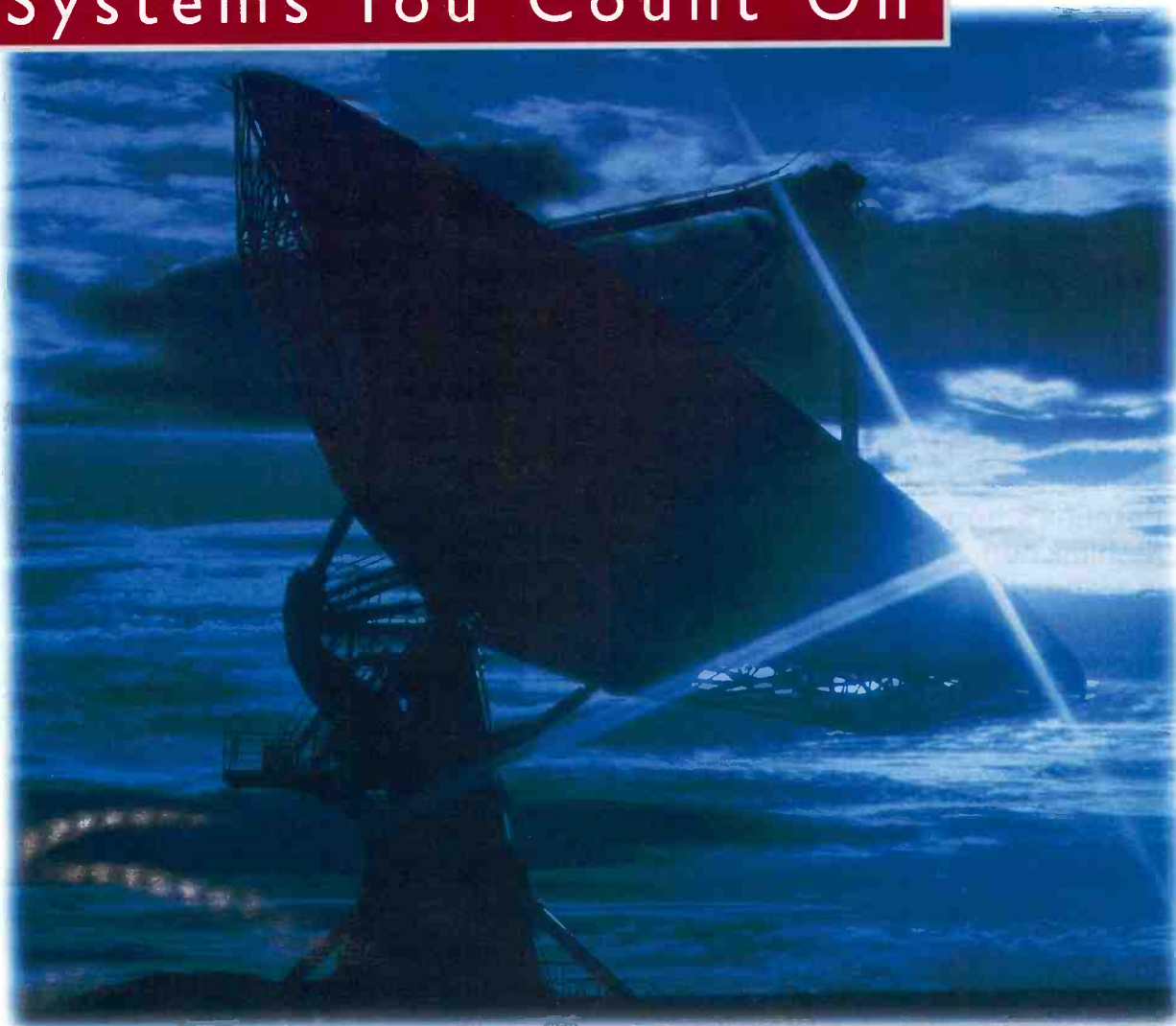


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The Xmedia Suite, VertigoXmedia's 3rd generation graphics automation platform, is the only open system connecting your newsroom tools, station automation, asset management and news databases to your CGs, Clip Players and Still Stores. And our VertigoXG family of graphics systems combines the ultimate rendering engine with the on-air robustness you require. For your next graphics project, large or small, contact VertigoXmedia - We Know Graphics.

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www.miteq.com

FIBER-OPTIC TRANSMISSION

OPTICOMM DVX-5000 SERIES800-867-8426; www.opticomm.com

One to eight channels of uncompressed SDI (up to 64 channels may be transported over one single-mode fiber using MDM-7000 CWDM Multiplexer); provide for the digital transport of uncompressed SDI with embedded audio or data per SMPTE 259M; accept SDI, ASI, DTV and DVB up to 540Mb/s per channel; transmission is extended up to 40Km over one single-mode fiber with a 20dB budget loss. ●

FIELD ACQUISITION SYSTEM

TELECAST FIBER SYSTEMS BAKER BOX (BBX)

508-754-4858

www.telecast-fiber.com

Converts stereo field microphones to AES via CAT5; RJ-45/CAT5 alternative to dry-pair and line amps; each unit amplifies and converts two microphone signals to one digital AES signal and transports it up to 500m on unshielded twisted-pair cable; up to four units can be daisy-chained together. ●

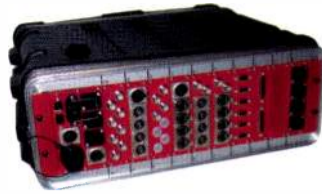
CONTROL

TANDBERG TELEVISION DIRECTORV5

+44 23 8048 4000

www.tandbergtv.com

The latest version of the Director CA platform; new version includes an embedded simulcrypt scrambling system for flexible and secure conditional access and receiver control on a single PC platform; modular system allows users to mix and match functionality. ●



MOBILE TRANSPORT ENCLOSURE

NETWORK ELECTRONICS MOT-BOX

800-420-5909

www.network-electronics.com

A compact 3RU, lightweight mobile transport enclosure; available to the flashlink's housing options; houses all flashlink optical transport, signal processing and distribution cards, including WDM/CWDM; its rugged design and connector panel, including an expanded beam hermaphroditic fiber connector, make it the ideal choice for all mobile and OB applications; options include a fiber reel with MIL specified tactile fiber, AC and DC power supplies, and a monitoring/alarming function via Network's GYDA controller. ●



BROADCAST PLATFORM

TERAYON BP 5100408-235-5500; www.terayon.com

Features enhancements to the system's digital graphic insertion capabilities; graphics can be inserted within the compressed MPEG video domain eliminating the need to decode and re-encode digital programming; can localize branding at distribution points closest to viewers. ●



ENCODING SYSTEM

LIGOS MEDIARIG ENCODER SD415-249-0100; www.ligos.com

A complete standard-definition MPEG-2 encoding system for ASTC, DVB and broadband encoding applications; a compact 1RU encoder capable of dual-channel processing, with options for either analog or digital input of NTSC/PAL formats, and SCPC/SPTS and MCPC/MPTS output to DVB-ASI, IP (UDP) or file; supports Dolby Digital (AC-3) two-channel audio, PSIP and PSI/SI control tables, closed captioning, bug insertion, and remote control and management of multiple encoders through its user interface. ●



MULTISTANDARD OFF-AIR RECEIVER/DEMODULATOR

BROADCAST TECHNOLOGY SHOWMAN 1000

+44 0 1264 332 633

www.btl.uk.com

Can be used with PAL, SECAM and NTSC television standards around the world; is designed for transmitter feeds and monitoring, OB reception and service acquisition; high-specification units are available incorporating IF inputs and outputs, alarms and logging. ●

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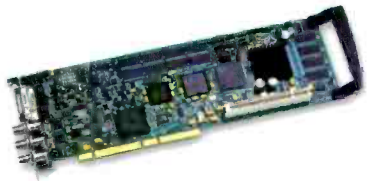
DTV DATA BROADCASTING SYSTEM

TRIVENI DIGITAL SKYSCRAPER

714-378-5841

www.trivenidigital.com

Allows broadcasters to offer new services by delivering various types of digitized content through their DTV signals; supports streaming media, Web pages, interactive TV, and any other type of digitized data; features receiver targeting, encryption and support for multi-station networks; can schedule content for distribution simultaneously through many DTV broadcast streams in a multi-station network. ●



HD DECODER

VELA CINEVIEW
727-507-5352; www.vela.com

Users can simulcast SD and HD format video via SDI; users can also upconvert SD materials to HD format; existing HD content can be downconverted to the SD format; has capability to frame-accurately combine SD and HD file output by simply switching the asset format through an A/B switch at any time. ●



STREAMING MEDIA DECODER

WEGENER SMD 515
770-814-4000
www.wegener.com

Advanced technology delivers widescreen, theater-quality movies with as little as 5Mb/s of data; digital and analog A/V outputs make unit compatible with virtually all subscriber entertainment systems. ●

CONDITIONAL-ACCESS SYSTEM

CONAX AS CAS7
+44 22 405 2 00
www.conax.com

Stand-alone CA solution with strong anti-piracy record; allows broadcasters or content providers to start with basic system supporting pay-TV and then add additional components to support more complex operations and business models, such as a mobile ordering and payment server, virtual video on demand, voucher server and CAStream IP encryptor. ●

DV SWITCHER

LAIRD TELEMEDIA DV4X1A
800-898-0759
www.lairdtelemedia.com

4 x 1 DV switcher with selectable external XLR audio insert onto the Firewire stream. ●

HD VIDEO ENCODER

MODULUS VIDEO ME6000
408-245-2150
www.modulusvideo.com

Real-time, full-resolution AVC video encoder with support for encoding digital video at Main Profile at Level 4; uses a slice partition methodology and includes advanced features such as CABAC entropy coding, macro block adaptive field frame coding and multi-frame references. ●

EDITING SYSTEM

CANOPUS WORKFLOW
408-954-4500
www.canopus.com

Combines the EDIUS realtime HD/HDV/DV editing solutions and ProCoder transcoding expertise with the MediaEdge enterprise video distribution solution; allows users to create, purpose and deliver video at a highest quality for broadcast, DVD, streaming and video-on-demand. ●

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NEWS PRODUCTION

QUANTEL NEWSBOX
203-972-3199; www.quantel.com

It offers a complete newsroom in a box; package includes everything from ingest and playout automation to journalist and craft editing, all based on Quantel's sQ server technology. ●

DVCPRO/DV VTR

PANASONIC AJ-SD255
201-392-4127
www.panasonic.com/broadcast

A versatile, half-rack size VTR tailor-made for nonlinear editing applications, as well as a variety of production tasks; compact and easy to carry; can undertake assignments ranging from viewing and dubbing to feeding an NLE system; performs DVCPRO and DV recording and playback with both standard and Mini-DV cassettes for cost-effective, extended-time applications. ●

NONLINEAR EDITING LAPTOP

1 BEYOND 3817 HD
617-591-2200; www.1Beyond.com

Designed for editing and graphics applications, including HD; optimized for HD editing and delivering (including 720p and 1080i); features 3.8GHz Pentium processor with hyperthreading technology for dual-processor optimized software, up to 4GB memory and 200GB of internal storage, eight channels of HD audio and support for new high-speed PCI express video bus. ●

DIGITAL PRODUCTION SWITCHERS

ROSS VIDEO SYNERGY SD
613-652-4886; www.rossvideo.com

New, more powerful control panel CPU, keyboard support and USB removable storage; new Squeeze & Tease Warp effects include corner pinning, lens flare, obscure, and shards; automatic white flash effect added to generate this type of effect; robotic cameras, audio mixers, character generators and support for numerous additional manufacturers' products. ●

SWITCHER

SAV MX-AIR
+33 1 53 38 22 00; www.sav.tv

An eight-input SDI master control room switcher with built-in embedders and de-embedders; it can integrate extra-levels of DSKs, logos, texts, clocks generators and a digital multi-channel digital audio mixer; it can be controlled through an automation connected via serial port, Ethernet or remote key-board. ●



MULTICHANNEL MASTER CONTROL SYSTEM

NVISION NV5128-MC
530-265-3055; www.nvision.tv

New master control processor with enhanced squeezeback effects is field-upgradable from SD to HD; includes new single-module SD master control processor with A/B mixer, three external keys, built-in logo store, providing up to eight channels of master control in a single 8RU frame. ●

HD/SD PRODUCTION SWITCHER

IKEGAMI HSS-3000
201-368-9171; www.ikegami.com

Can output HD, SD or SDI signals; a total of 96 inputs and 64 outputs can be supported, with all outputs fully assignable; offers four M/E's, with either HD or SD signals assignable to each M/E; a two-channel DVE is built into each M/E for basic programmable effects; features include optional frame store, external machine control and a dual LCD touchscreen. ●

3D ANIMATION SYSTEM

DISCREET 3DS MAX 7
514-393-1616; www.discreet.com

3D modeling, animation, and rendering solution; defines art in 3D animation for game development, design visualization, feature film and television effects, and education; includes Cloth Extension, the sophisticated cloth simulation system that gives artists the creative tools to build realistic, film-quality clothing for 3D characters in film, television, advertising and games projects; artists can turn modeled geometry into cloth, or design/import clothing patterns for the design of full garments for their characters. ●



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Point being, the people at Sundance understand what you expect from an automation company, and they deliver on all counts. Reliability, professionalism, customer service, technical support, flexibility, integrity and rock-solid software. All these advantages make Sundance Digital the world's best automation value — and choosing that value makes you look smart.

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A single equipment allows transmitting digital (DVB-T or ATSC) or analogue signals digitally generated and of extreme high quality. The commutation between analogue and digital mode can be local or by any remote control system or by a command inserted into the Transport Stream.



DBT 100U (DVB-T)
DTT 100U (ATSC)



- Dual ASI input with statistical analysis and automatic switching
- PCR re-stamping
- Control of the crest factor
- Integrated SFN adaptor
- Management of the "null packets"
- Integrated test modes
- Integrated offset at steps of 1 Hz

TRANSMITTER DUMMY LOAD

MYAT HIGH POWER UHF LOAD
201-767-5380; www.myat.com

The solution for coaxial high power system load requirements; the glycol/water coolant mixture facilitates effective heat transfer, providing consistent, low-maintenance stability; a highly efficient coolant flow-thru path minimizes the device's contribution to your station's cooling system pump capacity requirements; features high power capacity, low VSWR, efficient coolant flow-thru path, cost-effective system load solution, rugged construction; available with 3 1/8in, 4 1/16in and 6 1/8in inputs. ●



DTV PRODUCTION SERVER

ACCOM ABEKAS 6000
650-328-3818; www.accom.com

Built on the VxWorks operating system; handles up to eight digital video channels; features an integrated RAID-5 disk array; accepts and supplies both serial digital video and AES/EBU digital audio signals; offers 24/7 reliability; housed in a compact 8RU chassis; delivers both DVCPRO and MPEG-2 compression at 25Mb/s or 50Mb/s bit rates. ●



MEDIA SERVER

AVID TECHNOLOGY AIRSPEED

978-640-3594; www.avid.com

A cost-effective, intelligent replacement for VTRs or any older server technology; has two-channel DV25, DV50 and IMX50 playout capability; compact; its modular 3RU form factor reduces space requirements; its proven IT-standard design integrates easily with existing equipment, applications and processes, including third-party automation systems. ●



LIVE VIDEO PRODUCTION SYSTEM

BROADCAST PIX PIXMASTER
781-221-2144
www.broadcastpix.com

An integrated preproduction environment designed to simplify the creation of multilayer live video; enables a producer to click on any of the switcher's still or graphic stores to reveal its library content and then click on any element to open it in Inscribe for editing; clips and graphics can be set to automatically start as they go on-air and cue the next one as they come off-air. ●

SD/HD PRODUCTION SWITCHER

SNELL & WILCOX KAHUNA
+44 20 8917 4300
www.snellwilcox.com

Offers simultaneous HD and SD operations in the same mainframe with the same control panel; enables the seamless integration of SD sources into HD productions without outboard upconversion; users can work initially in SD-only or HD-only mode and then upgrade to multiformat SD/HD operation; allows users to mix existing SD camera feeds, graphics, handheld shots and archive footage directly into an HD production. ●

HD SWITCHER

PRO-BEL MASTERPIECE
+44 118 986 6123
www.pro-bel.com

New HD switcher can either be specified for new or purchased as an upgrade to the TX520; can be used to upgrade existing SD video switchers and benefits from two keyers with the ability to place a DVE into the signal chain before or after either keyer. ●

HD AND SD ENCODER

RADYNE HE4000
602-437-9620; www.radn.com

In its minimal configuration, the unit can simultaneously encode one HD and one SD video stream, as well as up to four stereo audio pairs; can be equipped with an advanced satellite modulator, making it ideal for both contribution and distribution; includes front-panel video and audio confidence monitors that provide verification of input sources; offers 1Mb/s to 160Mb/s encoding. ●



ENCODER

SCOPUS NETWORK TECHNOLOGIES UE-9000
609-987-8090
www.scopusamericas.com

Universal MPEG encoding platform; now implements dual-channel MPEG-2 real-time encoding; provides broadcasters with a migration path from MPEG-2 to new compression algorithms such as the SD and HD MPEG-4 Part 10 (H.264) and VC1 formats. ●

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*Decentralized master-less intercom architecture, matrix size 1,024 x 1,024, full summing, non-blocking, redundant dual ring fiber optic network, AES3 audio, intuitive configuration software

PERFORMER
FIRST DIGITAL BELTPACK*

*2-channel intercom operation on standard XLR cables, noise-free, digital audio quality, easy analog-style set-up incl. daisy-chaining. Successfully utilized at the 2004 Olympic Games and the 2005 Academy Awards.



VIDEO SERVER

LEITCH TECHNOLOGY TECHNOLOGY NEXIO HD

859-371-5533; www.leitch.com

Integrates baseband HD record and playback directly into NEXIO server system; provides two channels of HD output or one channel of input and one HD output in either 720p or 1080i format. ●

DATA ROUTER

UTAH SCIENTIFIC UTAH-400

801-575-3770

www.utahscientific.com

New addition to the UTAH-400 line for routing RS-422 machine control data, offers 64 ports in 4RU chassis with expansion capability for adding more ports; units can be fitted with optical I/O ports for direct connection of SD and HD signals on fiber without need for external converters. ●

SERVER AND VTR/DDR CONTROLLERS

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www.diskcontrol.com
www.vtrcontrol.com

Range of five-channel server and VTR controllers; comprises the base model HT445 actiV Filer, the HT445s actiV Sports; adds a T-bar for slow-motion, and the HT446 actiV Cart Box for live insert operation; includes control panels, popular control protocols, 5.5in graphic displays and single playlist capability; options include more protocols, actiV Loader for playlist translation and transfer, on-screen display, routing switch, scheduling more than 10 playlists, video editing, GPIs, master-to-slave linking and scheduled recording. ●

DVCPRO P2 STORE

PANASONIC AJ-PCS060
201-392-4127
www.panasonic.com/broadcast

A portable hard disk unit with a P2 card slot that quickly transfers the content of P2 cards to an internal hard disk drive; the 2.5in 60GB hard disk drive can hold the contents of up to 15 4GB P2 cards, and the entire contents of a 4GB P2 card can be transferred to the internal hard disk drive in approximately four minutes; after the P2 content has been transferred, the P2 store can connect to an NLE or server ingest PC via a USB 2.0 interface and appears as an external disk drive. ●

Define the Future

FOR-A[®]
INNOVATIONS IN VIDEO
and AUDIO TECHNOLOGY

HD/SD Switchable Model HVS-3800HS "2M/E HANABI"

The 2M/E HANABI series has taken another giant stride forward in evolution with the release of the HVS-3800HS 2M/E HANABI digital video switcher. This new model supports HD/SD multi bit rates and multi formats and comes with many additional functions such as color correction and forced background. It offers function and performance which are a step ahead of the others.



The Cutting Edge in Switchers from FOR-A



World's First Dual-Link Switcher HVS-Dual Link

The HVS-Dual Link is a 1M/E digital video switcher that enables input/output of 4:4:4 RGB HD-SDI Dual-Link signals. It allows 4:4:4 images scanned from a SONY HDCAM SRT™ or film to be input directly without converters.

The HVS-Dual Link is not merely an HD-SDI Dual Link-compatible video switcher. It can also provide 4:2:2 YPBPr signals by mode switching so that it can be used as a regular HD/SD video switcher.

Multi Layer & Multi DVE Supported VPS-700 "GINGA"

The VPS-700 "GINGA" ("Galaxy" in Japanese) from FOR-A features completely new work flows, and is bursting with special effects that were not available until now. It paves the way for ground-breaking creativity in LIVE productions and editing suites. Be prepared to have all of your fixed ideas about video switchers shattered by the VPS-700!

www.for-a.com

FOR-A Company Limited/Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan
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Tel: +81 (0)3-3446-3936 Fax: +81 (0)3-3446-1470
Tel: +1 714-894-3311 Fax: +1 714-894-5399
Tel: +1 416-977-0343 Fax: +1 416-977-0657



STORAGE

**EXANET
EXASTORE 2.0**
917-210-8290
www.exanet.com

NAS storage solution; applications for editing, digital archives, digital intermediates and graphics; features no single point of failure in a full high-availability failover environment; scalability allows any level of capacity and total performance desired in a system; consolidates data into a single pool that can be directly accessed by all workstation clients and workflow servers, regardless of the operating system. ●



VIDEOTAPE RECORDER

SONY SRW-5500
800-686-SONY
www.sony.com/professional

Simultaneously provides HD and SD output and Digital Betacam payout; can record and play back HDCAM and HDCAM SR tapes at 24PsF, 25PsF and 30PsF, as well as at 1080/60i, 1080/50i and 720/60p; captures content to tape at 440Mb/s at 10-bit depth using the MPEG-4 Studio Profile compression scheme; records 12 channels of 24-bit uncompressed audio; features metadata handling, dynamic tracking playback, pre-read, and confidence playback and recording. ●

CREATIVE AND TECHNICAL SOLUTIONS SERVICES PROVIDER

ASCENT MEDIA GROUP
310-434-7000
www.ascentmedia.com

Provides creative and technical solutions through its Creative Services, Creative Sound Services, Media Management Services and Networks Services groups for content creation, management and distribution; provides effective solutions for the creation, management and distribution of content to major motion picture studios, independent producers, broadcast networks, cable channels and advertising agencies. ●



STUDIO VTRS

**SONY DSR
RECORDERS/PLAYERS**
800-686-SONY
www.sony.com/professional

Have been enhanced with the addition of an integrated i.LINK IEEE-1394 digital interface; the existing DSR-1600, DRS-1800 and DSR-2000 models will be upgraded with this new built-in connectivity feature and relaunched as the DSR-1600A, DSR-1800A and DSR-2000A; upgrade provides professional video producers who use the DSR series greater compatibility with DV I/O-equipped cameras, VTRs and nonlinear editing systems. ●



STORAGE

**MEDÉA VIDEORAID
FCR2**
949-852-8511
www.medeas.com

Fibre Channel array optimized for high-bandwidth applications, including HD video editing with the FCR2X; equipped with a single channel 2Gb Fibre Channel interface; provides sustained data transfer rates of 180MB/s; features a built-in four-port Fibre Channel hub that allows for direct connection of up to four workstations; desktop enclosure provides up to 1.6TB of storage on five removable disk drives. ●



VIDEO SERVER

360 SYSTEMS IMAGE SERVER 7000
818-991-0360
www.360systems.com

Full-featured, six-channel broadcast server; designed for satellite ingest, production and play-to-air; the two-input, six-output multiformat design supports MPEG-2, DV and TARGA graphics; up to 400 hours of internal RAID storage is available (accessible from the server front panel), plus redundant, hot-swappable power supplies; design supports MPEG-2 broadcast formats to 50Mb/s, in I-frame and long-GOP modes. ●



CLIENT/SERVER ARCHITECTURE

SEACHANGE MEDIACLIENT
978-897-0100; www.schange.com

Leverages Broadcast MediaLibrary (BML), which provides fault-resilient storage, independent of the image format, compression standard and file type; BML24000e available as a high-performance CIFS server; is complemented by the new software-based MediaClient codecs, which couple real-time, broadcast-quality I/O and high-quality MPEG-2 and DV coding with CIFS storage access over Gigabit IP networks. ●

network

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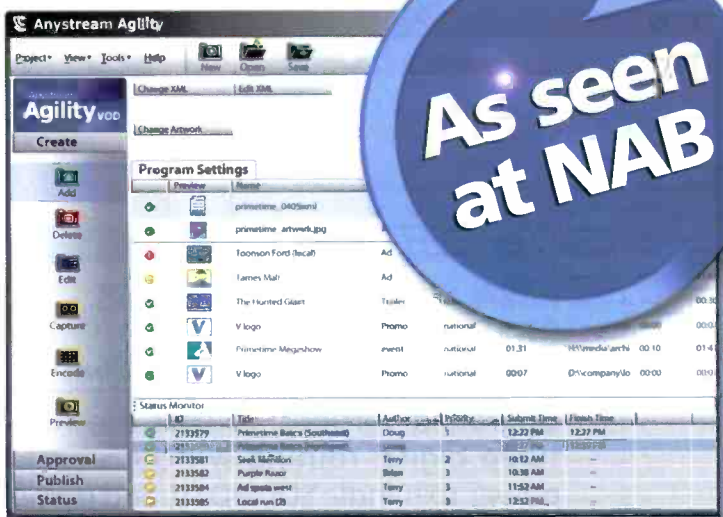
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Agility VOD

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VIDEO WATERMARKING
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+33 02 99 22 61 62
www.nextamp.com

Uses invisible digital video watermark ID to discourage movie piracy; embeds in either SD or HD formats during tape duplication or file copying; comes with Sd-SDI, HD-SDI or Gig-E interfaces; offers embedding in uncompressed material as well as directly within MPEG-2 or H264 files. ●



DOCKABLE SOLID-STATE RECORDER

**GRASS VALLEY
VENOM FLASHPAK**
503-526-8200
www.thomsongrassvalley.com

Created for the company's Viper Film-Stream digital cinematography cameras; captures uncompressed output of the camera in a lightweight, solid-state system that is compact, dockable and rugged. ●

BROADCAST AND AUDIOVISUAL
INTEGRATOR AND EQUIPMENT
SUPPLIER

**PROFESSIONAL COMMUNICATIONS
SYSTEMS (PCS)**
813-888-5353; www.pcomsys.com

Offers a host of services — from consulting, design and engineering to equipment procurement, documentation and training, and after-sales support; specializes in design, installation, and maintaining turnkey audio and video communication systems. ●



EDITING SYSTEM

PRIME IMAGE TIME TAILOR
408-867-6519
www.primeimageinc.com

Designed to meet requirements of post-production houses and their clients; reduces content up to eight percent with no loss of program integrity; no detectable change in video and audio quality; maintains closed captioning; operates in real time, cutting work time by 70 percent. ●

EQUIPMENT CONSOLES

TBC CONSOLES INTELLITRAC
631-293-4068
www.tbconsoles.com

Laterally sliding and positionable rack turrets easily upgraded or relocated as equipment and operational requirements change; continuous front and rear device tracks allow unlimited lateral positioning of critical equipment; articulating arms for distance, height and tilt control may be used for mounting flat-panel monitors, speakers, phones and task lighting. ●

IOT

E2V IOT
914-592-6050; www.e2v.com

For high power analog and digital UHF TV transmitters; include low power plug-in types, higher power plug-in and build-up types, and a range of high efficiency water cooled energy-saving-collector IOTs (ESCIOTs); hydrogen thyratrons make them suited as protection devices for IOTs in high power UHF TV transmitters; single IOT systems range in power from 15+1.5kW to 77+7.7kW (combined amplification). ●

DIGITAL KLYSTRODE IOT

CPI/EIMAC K2
650-594-4089; www.cpii.com

For use in digital UHF television service in the output stage of DTV transmitters; suitable for use with 8VSB and COFDM modulation schemes; have a magnetically focused electron beam that is density-bunched by an RF cavity-driven grid; optimized to maintain a high gain and linearity at the average or RMS signal levels as well as at the peak power levels; efficiency is optimized at the average or RMS level for low operating cost. ●

Not your typical
automation system...

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All automation processing, machine control, and database management run on our own real-time embedded hardware platform. And for 100% on-line redundancy, simply add one more! You just can't compare.



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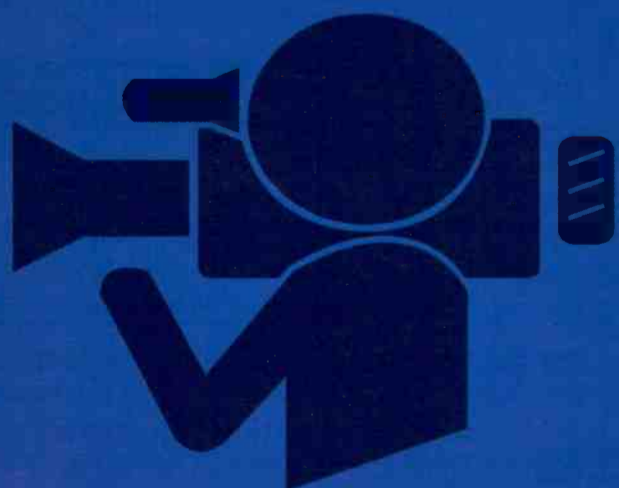
HD ROUTER

**PESA SWITCHING SYSTEMS
CHEETAH**
631-845-5020; www.pesa.com

Upgraded versions; routers are full-featured digital routing switchers with the power to handle SDI, HDTV, and non-standard digital signals in the same frame; available in 64 x 64, 128 x 128, 256 x 256 and 512 x 512 frame sizes; can handle bit rates from 3Mb/s up to 1.5Gb/s. ●

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MOTION-COMPENSATED
BROADCAST UPCONVERTERSNELL & WILCOX
HD5300

+44 20 8917 4300

www.snellwilcox.com

Housed in a compact 1RU enclosure; uses motion compensation derived from company's Alchemist Ph.C standards conversion range; allows centralized setup and monitoring through RollCall, which enables broadcasters to choose a customized financial model, such as central-casting of multiple stations over a wide area network or use of a few modules in a single facility. ●

Monitor
Video Quality
at the
Pixel Level

Get reliable answers about the quality of your feed. You'll see differences in signal quality immediately – and be able to do something about it.

Eliminates concerns about human error, equipment malfunction and system failure. Our products can provide automated monitoring of video quality at the pixel level in real time.

K-WILL supplies a full line of high quality test and monitoring equipment that give broadcast engineers a forensic view of the signal they're putting out and the power to make immediate adjustments.



DigitalTV Magazine's "EDITOR'S PICK OF SHOW" AT NAB-2004
TSI-2000 provides centralized monitoring of video networks with automated, real-time assessment of the quality of MPEG-2 video transport streams.

QuMax-2000's flexible architecture can be customized for real-time on-air quality monitoring, dubbing and inspecting video quality written to servers.



Recommended by ITU Document J.144
The VP series includes the VP21S, which performs before and after quality evaluations in real-time of SD video. An HD product is also available.



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Palo Alto, CA 94301
PH: (949) 553-9701
salesus@kwillcorporation.com
www.kwillcorporation.com

PORTABLE HD MONITOR
FOR SONY HDV CAMCORDERS

ERG VENTURES HDM-EV85

949-263-1630

www.erg-ventures.com

This 8.4in monitor is designed for the HDV camcorder, Sony HVR-Z1U and HDR-FX1; offers enhanced color, frame markers and a memory preset function; its HD analog input enables the camcorder to connect to the HDM-EV85 directly; accepts most popular video image formats; with two 7.2V batteries, the monitor lasts up to three hours. ●

DUAL-SCREEN LCD MONITOR

MARSHALL
ELECTRONICS
V-R72P-2HDSDI310-333-0606; www.lcdracks.com

Occupies only three RU of a standard 19in EIA equipment rack; 1.2 million pixel TFT screens have wide 130-degree viewing angles and incorporate digital signal processing; SMPTE/ITU HD and SD digital (HDSDI/SDI) video standards and signal types are accepted and displayed on each screen; analog signals are digitized using an advanced 10-bit process on each signal path with 4X over-sampling and adaptive five-line comb filter with exacting color space conversion. ●

DIGITAL ASSET MAXIMIZATION
INITIATIVE

THOMSON GRASS VALLEY DMAX

503-526-8200

www.thomsongrassvalley.com

Product expands company's C2MD program for centralized facility monitoring and management; new service level agreement gives users flexibility to implement multi-distribution workflows. ●

CONVERTERS

FORTEL DTV INTEGRITY 300 SERIES

770-806-0234; www.fortelDTV.com

The bridge between analog and digital video; composite analog decoders, NTSC and PAL encoders and YUV and RGB conversion, are all included in this series. ●

VIDEO PROCESSING AND
DISTRIBUTION LINELEITCH TECHNOLOGY
6800+ MODULAR
PLATFORM859-371-5533; www.leitch.com

Line adds nine new HD configurations, including: HFS6800 video frame synchronizer/processor, HMX6800 multiplexers and HDX6800 demultiplexers, NEO SuiteView multi-viewer solutions, CCS-TRAX, NEO HUC-3902 deinterlacing upconverter module, NEO DLY-3901-4 SDI delay module, next-generation CCS control panel, and SNMP support monitoring application. ●



CABLE CONNECTORS

POMONA ELECTRONICS

XLR CONNECTORS

800-490-2361;

www.pomonaelectronics.com

Features a clamping mechanism that withstand 100lb of pull without disconnecting the cable; designed to deliver high-quality, low-noise audio transmission; feature gold contacts and black nickel coating to reduce reflection; are also available on 10ft to 25ft foot cable assemblies made with Belden 1172A four-conductor Star Quad, low-impedance cables. ●

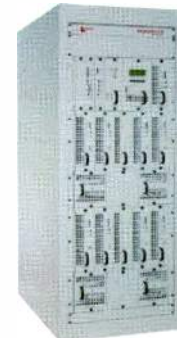
SOFTWARE CONTROL PLATFORM

PRO-BEL PROCION

+44 118 986 6123

www.pro-bel.com

Contains new features for the management of broadcast systems and media workflow; allows customers to design their own user interfaces; supports router control, modular product monitoring and control, media management, automation and master control. ●

UHF DIGITAL AND
ANALOG
TRANSMITTERAXCERA
INNOVATOR HX

800-215-2614

www.axcera.com

Based on the advanced design of the Innovator HX VHF transmitter; high-power solid-state UHF transmitter; features broadband amplifiers and combiners, high-gain power modules and hot-swappable amplifiers; design offers the choice of linear or switching power supplies and uses identical amplifiers for internally diplexed, externally diplexed and DTV operation. ●

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| HDV | ✓ | ✓ | ✓ | ✓ |
| SD (uncompressed) | | | ✓ | ✓ |
| HD | | | | ✓ |
| IEEE 1394 (FireWire) w/deck control | ✓ | ✓ | ✓ | ✓ |
| Composite Video Output | ✓ | ✓ | ✓ | ✓ |
| Composite Video Input | ✓ | ✓ | ✓ | ✓ |
| Component Video Output | ✓ | ✓ | ✓ | ✓ |
| Component Video Input | | ✓ | ✓ | ✓ |
| RS-422 Deck Control | | ✓ | ✓ | ✓ |
| AES / EBU Audio | | | ✓ | ✓ |
| SD SDI | | | ✓ | ✓ |
| HD SDI | | | | ✓ |



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**TEST GENERATOR****DOREMI LABS HD-G10**

818-562-1101
www.doremilabs.com

Portable test generator; features a dual-link HD-SDI 2k resolution video output; provides 15 still patterns and seven moving test patterns in SD and HD formats; outputs audio tone, time code and close caption characters; has ability to combine any still pattern with a moving pattern to create hundreds of video pattern options. ●

SIGNAL ANALYSIS**VIDEOTEK TVM-950HD**

800-800-5719; www.videotek.com

Offers HD video and audio signal analysis; provides waveform, vector, audio and picture all in one convenient display; features back-lit controls and a compact half-rack configuration. ●

FORMAT CONVERTER/INTERFACE**MIRANDA TECHNOLOGIES DV-BRIDGE CAM**

514-333-1772
www.miranda.com

Lightweight and high quality DV-to-SDI converter for low-cost news gathering DV cameras; mounts securely under a handheld DV camera or between tripod and camera; converts DV output to SDI-compatible signal with embedded audio and time code. ●

IOT TRANSMITTER**AXCERA VISIONARY SERIES**

800-215-2614; www.axcera.com

High-power UHF solution; accommodates multiple tube styles from various manufacturers; with every standard analog configuration, comes an upconverter and broadband LDMOS driver amplifier for each IOT final amplifier. ●

**TRANSMITTER****DMT USA 1KW DTV UHF TRANSMITTER**

888-912-TEAM
www.dmtonline.us

Air cooling; LDMOS technology; broadband standardized design; dual-cast option; built-in output filter. ●

MSDC-IOT TRANSMITTER**THALES BROADCAST & MULTIMEDIA DCX PARAGON**

413-998-1100
www.thales-bm.com

Supports DTV, NTSC and various manufacturers' tubes in both water- and oil-cooled versions; features the patented Soft Arc Technology, which eliminates the need for a crowbar and substantially increases the transmitter's overall reliability. ●

**HD CAMCORDER****PANASONIC AG-HVX200**

www.panasonic.com/broadcast

DVCPRO HD P2 hand-held camcorder provides 1080i and 720p recording at 100 Mb/s DVCPRO HD; shoots in 1080/60i, 30p and 24p; in 720/60p, 30p and 24p and in DVCPRO50, DVCPRO or DV; supports variable frame rates to capture fast-speed and slow-speed action; cine-like gamma curve and cine-like color matrix to emulate film look; provides Mini-DV tape recording capability that allows users to shoot 16:9 images on DV tape and edit with existing workflow. ●

**AIR-DIELECTRIC COAXIAL CABLE****RADIO FREQUENCY SYSTEMS (RFS) HELIFLEX**

203-630-3311
www.rfsworld.com

Available in sizes from 3/8in to 9in; minimizes discontinuities and achieves low return loss over the entire UHF bandwidth; with dual feeder lines, the product's inevitable proximity facilitates phase matching and eliminates the need for inherent temperature compensation. ●

Turns out,
the most important
component of any
station automation
solution is people.

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www.crispincorp.com sales@crispincorp.com 919-845-7744

CONVERSION MODULE

TERANEX XM

407-858-6000; www.teranex.com

A multi-function module; integrates with Thomson's Kameleon media processing system, Newton modular control system and NetCentral SNMP-based remote monitoring application; supports many functions, including MPEG Artifact Reducer (IE-MPEG-AR); features PixelMotion de-interlacing, advanced multi-filter noise reduction (IC-UNC) and aspect ratio conversion. ●

DIGITAL MONITORING SYSTEM

GENELEC 8130A

508-652-0900; www.genelec.com

Features AES/EBU digital and analog audio inputs in a single loudspeaker system; 192kHz/24-bit digital audio interface; supports single and dual-wire digital input mode; is compatible with the company's 7050A subwoofer; up to eight 8130A's can be daisy-chained together in digital or analog mode. ●

MOTORIZED ELEVATING TRIPOD

TELEMETRICS TELEPOD

201-848-9818

www.telemetryinc.com

Supports small compact cameras and pan/tilt heads; interfaces with Telemetry's CP-ITV control panel for RS-232 control of the camera, pan/tilt/zoom/focus, iris and elevation; has a motorized column with collapsible legs; rises to a manual height of 46in, with an additional motorized elevation range of 26in. ●

SATA DISK STORAGE SOLUTION

MEDÉA STREAMRAID 15

800-525-9217;

www.streamraid.com

4Gb Fibre Channel performance and connectivity; fully redundant 24/7 server features; SATA drive support; up to 15 drives per chassis in a triple redundant configuration; real-time sustained data transfers up to 800MB/s; Active-Active RAID controllers enhance reliability of SATA drives; expansion chassis design for cost-effective high capacity; dual integrated eight port fabric switch modules. ●

REAL-TIME GRAPHICS RENDERING PLATFORM

ORAD HD DIGITAL VIDEO GRAPHICS (HDVG)

212-931-6723

www.orad.tv

Supports up to two full resolution inputs in HD mode and/or up to eight in SD mode; mixing between HD and SD modes is also supported; two independent output channels are supported; one can be configured as the main channel, the other can be set as the preview. ●

BASS ENHANCEMENT/DYNAMIC CONTROL

WAVES MAXXBCL

865-909-9200

www.waves.com

Combines the highest quality converters available with unequalled processing algorithms; offers new power in bass enhancement, dynamics processing, and format conversion (analog-to-digital, digital-to-analog, and digital re-quantization). ●



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SES AMERICOM
An SES GLOBAL Company

COLOR CORRECTION SYSTEM

DIGITAL VISION NUCODA COLOR TIMER

818-769-8111; www.digitalvision.se

Allows a colorist to ingest using EDLs or cutlists, and then conform data and proceed to playback, carrying out dissolves and re-times automatically; includes the company's data conform technology; also provides an enhanced color correction toolset for creating bleach bypass, monotone and duotone effects, at 2K resolution and in real-time. ●

HD CAMERA SYSTEM

CINEFLEX HIDEF

530-477-5862; www.cineflex.com

Features unparalleled gyro-stabilized technology; images are 3X clearer than SD; transmits encrypted digital images in real-time; lighter than competing cameras; interchangeable lenses; customizable to virtually any moving vehicle. ●

GLOBAL CONTENT MANAGEMENT PLATFORM

GLOBECAST WING

305-887-1600; www.globecast.com

A proprietary IP-enabled administrator to drive applications to manage an emerging range of nonlinear content; allows customers to ingest, store and stream content using any wireless or wired Internet connection to enable exchange; features secured IP VPN capability. ●



IP-BASED STORAGE AREA NETWORK

STUDIO NETWORK SOLUTIONS GLOBALSAN X SERIES

877-537-2094

www.studionetworksolutions.com

Designed to offer a cost-effective pathway toward achieving performance nearing that of Fibre channel; built on the company's iSANmp volume sharing software; includes 6TB of SATA storage and six iSANmp user licenses that can be upgraded to support additional users/storage. ●

COLOR CORRECTION PROGRAM

GAMMA & DENSITY 3CP

323-850-2845

www.gammaanddensity.com

Corrected images from the 3cP make it directly to the same telecine monitor that the colorist views the negative image on; processed images come to telecine suite complete with viewable waveform monitor and vectorscope as well as electronic printer lights representative of the corrections applied to the images; telecine facilities do not need any additional software or hardware to accommodate. ●

HD AUDIO/VIDEO CONVERTER

LEITCH TECHNOLOGY X75 HD

800-775-3314; www.leitch.com

Combines up-, down- and crossconversion, HD frame sync and extensive video and audio processing capabilities; is equally suited for analog, digital or HD hybrid facilities; level/color control; features optional 3-D adaptive color decoding with time base correction, optional noise reduction and frame synchronization; the 16 channels of internal audio processing include timing with video for lip sync corrections, level control, analog-to-digital and digital-to-analog conversion, and embedding and de-embedding for both SDI and HD-SDI serial digital signals, and integrated Dolby decompression for interfacing any audio signal in a professional environment. ●

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| Anton/Bauer Inc. | 53 | 203-929-1100 | antonbauer.com |
| Anystream | 51 | 888-ANYSTREAM | anystream.com |
| Avid Technology | 5 | 800-949-AVID | avid.com/instinct |
| Broadcast Microwave Services | 44 | 800-669-9667 | bms-inc.com |
| Calrec Audio Ltd. | 27 | +44 1422 842159 | calrec.com |
| Canare Cable Inc. | 41 | 818-365-2446 | canare.com |
| Canopus Corporation | 55 | 1-888-899-EDIT | canopus.com |
| Clear-Com Communication Systems | 25 | 510-496-6666 | clearcom.com |
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