

New Products

Panasonic Broadcast & Television Systems Co. will present several new products at the NAB show in April: The AJ-HDC27A **digital camera recorder**, the first to acquire 720-line, 60-frame progressive scan HD images. Offering the same compact size, light weight, and low power consumption as a standard-definition camcorder, the AJ-HDC27A's three 2/3-in. IT CCDs feature 1280 x 720 effective pixel resolution and an on-chip lens system, providing high sensitivity of F10 at 2000 lux and excellent smear immunity.

The AJ-HDC24A 2/3-in. IT 3-CCD **variable-frame rate DVCPRO HD camcorder**, for acquiring 720-line, 24-frame progressive scan HD images for digital cinema, television episodic, DVD, and web production applications. Its three 2/3-in. IT CCDs feature 1280 x 720 effective pixel resolution and an on-chip lens system, resulting in a high sensitivity of F13 at 2000 lux (in 24-frame mode at 50% shutter), exceptional smear immunity, and astounding color accuracy.

The AJ-HD130DC, a **half-rack DVCPRO HD VTR** for desktop, mobile, and field operations. Highly compact at only 8-7/16 in. wide, 5-1/4 in. high, and 16-15/16 in. deep, this 19-lb VTR is the smallest high-definition production recorder. Operating on either 120-V AC or 12-V DC power, it requires only a small footprint in HD desktop editing applications, and is ready-to-go for installation in a mobile van or in-field use.

The AJ-HDR150, a commercially available video server offering multiresolution recording and playback in the DVCPRO compression format. It can record up to 20 hr of DVCPRO footage, 10 hr of DVCPRO50 footage, or 5 hr of DVCPRO HD footage with internal RAID-3 storage. Storage can easily be expanded to over 200 hr with a Fibre Channel attached SAN, which can also allow up to three AJ-HDR150 units to share common storage modules. Each of the server's channels is equipped with a 9-pin RS-422A port supporting both Louth and Odetics protocols.

The PT-D8500U, third generation large-venue **DLP-based projector** offering XGA (1024 x 768) resolution with built-in edge blending. The PT-D8500U utilizes three 0.9-in. digital



Panasonic's half-rack HD VTR



PT-D8500U projector from Panasonic



The SoniCase from Sonic Sense

micro-mirror devices panels to deliver a high light output of more than 7000 ANSI lumens, a greater than 450:1 contrast ratio, workstation (1280 x 1024) compatibility with built-in Universal Format Conversion, and 10-bit digital signal processing for excellent picture quality.

Microvideo Ltd. will also introduce new products at NAB2001. The **digital proc amp** (NPROC-3) is a tool for dealing with problem video sources. It allows adjustment of a wide range of video parameters including video gain, black level, chroma gain, and clip level. One new feature is gamut correction, a legalizing function that processes incoming video to ensure that it is within the valid RGB color space. The processing engine then defines how much correction should be applied to bring the color back into the correct gamut.

Two new **synchronous switching modules** in the Series 200 interface range are designed to allow emergency switching to backup video and audio feeds. The ESW201S switches serial digital video, offering a timing compensation function to allow a clean switch between the two sources. The ASW201 digital audio 2 x 1 switch complements the video switch and has similar features, such as auto switch on loss of AES input and relay bypass.

AV-MIX is a low-cost 2-input **video and audio mixer**. It is designed for serial digital video and allows cuts and mixes of both the video and its corresponding embedded audio. The 1-U rack mounting unit offers front panel controls to allow setting up the device

with full control over fade times for the video and audio.

The **VBI Data Bridge** allows data such as closed captions, Teletext, and test signals to be inserted into the VBLI of a serial digital video signal. It can accept data input for either digital or analog sources. The Data Bridge is supplied in a 1-U rack mounting frame with front panel controls.

Focus Enhancements will demonstrate at NAB standalone and rack-mount production modes of QuadScan Elite, its latest video scaler and line quadrupler. Employing new circuitry, which eliminates flicker and other artifacts associated with scan conversion, this product is designed for use with high-resolution, progressive scan video projectors and displays used in home theater or professional presentation systems. It offers selectable output resolution up to 1365 x 1024, with aspect ratios of 4:3, 4:3 letterbox, and 16:9.

Nextream products to be shown at the NAB are the **DBE 4140**, the latest encoder version in the 4100 encoder family range. It is the ideal solution for cable and terrestrial television operators who demand a cost-effective solution for digital program insertion. This compact encoder performs local program MPEG-2 encoding, receives an MPEG-2 transport stream containing the national program through its ASI input, and performs splicing between them.

The SuperEncoder hardware option of the DBE 4130 broadcast encoder allows performing a first encoding pass in order to optimize the effective MPEG-2

TROMPETER AD

work with standard single mode or multimode fiber-optic cable, it supports systems with up to a 17-dB loss budget and transmits full bandwidth, full motion, and uncompressed video. It is one rack unit high and can be used as a free-standing unit or rackmounted.

Kodak has introduced a **sound recording film** designed to improve the analog and digital performance of film, enabling quality and productivity improvements in motion picture labs for release printing and in sound labs. Kodak Panchromatic sound recording film 2374 (35mm) /3374 (16mm) is a high-contrast black-and-white laboratory film used in post-production operations. The film incorporates a number of breakthroughs in film technology, including a process-surviving, antistatic backing and a new gray Estar base.

The latest product from Molex Fiber Optics is the small form factor (SFF) LC 2.5-Gbit **transceiver**, a rate-agile device that utilizes the LC optical connector interface and occupies the board space of a standard 1 x 9 unit. Operating on low 3.3-V power supply voltage, it incorporates native oxide 850-nm VCSEL technology and offers serial gigabit transmission over multimode fiber up to 550 m, is AC coupled, and compatible with TTL signal detect.

SoniCase is now available from Sonic Sense. Constructed of double layers of 1000 denier Cordura fabric, this is a high-quality equipment carrying case designed expressly for field use by location-recording professionals. The weather-resistant enclosure provides storage and protection for a full-size portable DAT recorder, two rechargeable batteries, a microphone preamp, microphones, cables, and other vital accessories.

encoding and thus significantly improve image quality. SuperEncoder noise reduction can perform both first encoding pass and motion-compensated noise reduction.

Aspen Electronics, Inc., recently released **Light Tuner** (LT 100), a new electronic control module for adapting 14.4-V batteries to on-camera lights. The LT 100 maintains a constant 12 V to the light over the full decreasing voltage range of the battery to ensure constant brightness and color temperature. It includes a manual override dimmer

control, LED-level indicator, and power on/off switch.

Communications Specialties' new **Pure Digital Fiberlink 10-Channel Video Multiplexer/PTZ system** for video and data transmission transmits up to 10 channels of baseband analog video and optional 2-way (PTZ) data (RS-232, RS-422, RS-485) over one or two fibers. It employs all digital processing and transmission techniques, resulting in a uniform signal over the entire transmission distance with no distortion, crosstalk, or interference. Designed to

Aspen Electronics, tel: 714-379-2515, website: aspenelectronics.com

Eastman Kodak, tel: 800-814-1333, website: kodak.com/go/motion

Focus Enhancements, tel: 212-986-6668, website: roherpr.com

Microvideo Ltd., tel: +44 1223 834119, website: microvideo.co.uk

Molex Inc., tel: 630-512-8787, e-mail: sskiest@molex.com

Panasonic, tel: 800-528-8608, website: panasonic.com/broadcast

Thomson Broadcast Systems, tel : +33 01 34 20 70 01, e-mail: cecillec@thmulti.com
