

transport content from local studios to a central headend, and then on to a number of remote transmitter sites, which requires precise timing for synchronized broadcasting. Harmonic's ProStream solution eliminates the complexities previously associated with operating a SFN architecture over IP. At Teledifusión Madrid, the Electra encoders are used to transmit content from the studios to the central headend, where the ProStream 1000 aggregates the services into DVB-T transports, which are then distributed over IP to the various transmitter sites and received by local

ProStream 1000 systems.

Harmonic's ProStream 1000 is the industry's first video processing solution that can be easily configured to provide a wide range of digital video stream processing functions—including multiplexing, scrambling, bulk descrambling, re-encoding and SFN over IP—within an integrated one rack-unit system. The Teledifusión Madrid solution was implemented in conjunction with Telindus, a leading European sourcing partner.



Camcorder

Panasonic has announced the AJ-HPX2000 P2 HD shoulder-mount camcorder. It features a native HD progressive 2/3 in. 3-CCD system that offers recording in 1080i, 720p, 480i, 576i, and a total of 17 HD and SD formats. The camcorder is switchable between DVCPRO HD/50/25 and DV as well as the new AVC-Intra codec. The AVC-Intra provides highly efficient intraframe, 10-bit encoding and can hold up to five P2 cards and provides quick, immediate access to video content from all cards simultaneously. The camera offers continuous recording, allowing users to hot swap and replace P2 cards as well as loop record without interrupting the recording. Captured video can be accessed in thumbnail clips on the camera's 3.5-in. color LCD monitor for playback, in-camera editing, and shot-marking right in the field. The camcorder also features high-speed file transfer with a variety of professional input/output options, including industry-standard IT interfaces such as IEEE 1394 and USB 2.0, as well as HD/SD-SDI for easy field recording (pool feeds), genlock, SMPTE time code, and composite video interfaces.—www.panasonic.com/broadcast

Fiber Optic Transport System

The DTV-4200 4-channel SDI and audio fiber optic transport system from Multidyne will support 4 SDI, 16 audio, or 8 AES/SPDIF channels. A one rack-unit, modular tray will house up to three DVM-4200, DVM-8200, or DIM-8200 cards. The DTV-4000 supports 24-bit stereo audio flat from 20 to 20k Hz with S/N greater than 90 dB and THD less than 0.05%. The optical budget exceeds 30 dBm. The system is available with 1310- and 1550-nm wavelength lasers for Wave Division Multiplexing (WDM) application. Coarse-WDM

is available with 1470-, 1490-, 1510-, 1530-, 1550-, 1570-, 1590-, 1610-nm wavelength lasers. Applications include links from studio to transmitter (STL), studio to studio, studio to CATV head-end, distance learning, satellite-up-and-down links, common carrier transport, Telco circuits, Intelligent Transportation Systems, and backhaul feeds from special events.—www.multidyne.com


HD Player/Recorder

Panasonic has announced availability of the AJ-HPM100, dubbed the P2 Mobile. The recorder/player allows professionals to work in both the AV and IT worlds, or in HD or SD, and links the P2 file format and baseband video. In a compact, magnesium diecast body, the P2 Mobile features multi-format recording and playback with a six-slot P2 card reader; input/output options include HD-SDI, IEEE 1394, USB 2.0; an SD memory card slot; broadcast-level editing controls, including a job/shuttle dial and audio faders; and a 9-in. widescreen HD LCD monitor with stereo speakers. The P2 Mobile offers the benefits of solid-state performance with on-the-go recording, editing, and playback, including up/down/cross conversion between 1080i and 720p and between HD and SD. Its six-card slots allow recording of continuous, extended clips in sequence onto P2 cards, or use of five of the P2 slots for recording and the sixth to output an extended playlist. The recorder/player also offers eight 16-bit digital audio channels with 5.1-channel surround sound. It weighs 14.4 lb, folds like a laptop PC for easy transport, and operates on either AC or DC power.—www.panasonic.com/broadcast

Attention Students

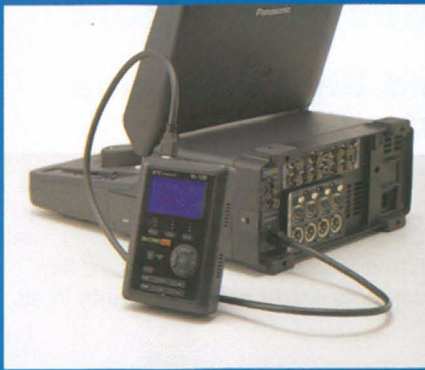
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The AJ-HPM100 recorder player from Panasonic.



Panasonic's AJ-HPX2000 P2 HD camcorder.



The DTV-4200 4-channel SDI and audio fiber optic transport system from Multidyne.

Mini Converter

AJA Video has announced HI5, a miniature converter with full support for high-definition multimedia interface (HDMI). HI5 offers a small footprint for viewing SDI and HD-SDI material on HDMI displays. The uncompressed, all-digital audio/video HDMI interface has become more and more popular for set-top boxes, DVD players, A/V receivers, and audio and video monitors. HI5 allows for media conversion via a single-cable audio/video connection, with embedded SDI/HD-SDI audio, two-channel RCA-style audio outputs for separate audio monitoring if needed, and looping to connect or "daisy chain" multiple monitors to the same SDI/HD-SDI source. Key features include SDI/HD-SDI to HDMI conversion; full HDMI support, including audio; additional two-channel, RCA audio output; looping SDI/HD-SDI output; input formats: 525i, 625i, 720p 50/59.94/60, 1080i 50/59.94/60; video inputs: HD-SDI/SDI, SMPTE-259/292/296.—www.aja.com

Monitoring/Testing Solutions

Tektronix' Unified Assurance (UA) product suite provides network operators a comprehensive, vendor-independent view of the performance of IP multiservice networks and services. This system provides realtime, multiprotocol/interface network, service and customer monitoring of next-generation IP, legacy, and mobile core networks. The system provides a proactive approach to monitor the quality of the customer experience for new IMS-enabled multinet applications. End-to-end-based key performance indicators and key quality indicators are delivered for IMS applications, such as converged voice (fixed mobile convergence); VoIP (hosted VoIP, IP Centrex); peer-to-peer video services (mobile-to-mobile multimedia services); presence-based applications (unified messaging, push-to-talk). UA's service-quality visibility enables network operators to prioritize and manage operations activities according to actual service experience being delivered, and proactively track the quality of service experienced by customers.—www.tek.com/communications

Multi-image Display

Avitech has launched the VCC-8000, a multiformat data module designed for mission-critical video applications. The VCC-8000 offers a feature-rich tool set for incredibly flexible monitoring environments. The advanced visual monitoring of video, and data signals can be used for television studios, production studios, and OB van applications. The display also offers close integration with major providers of tally management systems, production switchers, and routing switchers. The new modules allow simultaneous digital visual interface (DVI) and video graphics array (VGA) computer inputs, as well as HDTV and analog video inputs to be displayed in high resolution up to 1920 x 1200. VCC modules can be used either as standalone units or cascaded together to provide a much larger monitoring system. The VCC-8000 is also completely compatible with Avitech's Media Command Center MCC-8004 series of multiviewers.—www.avitechvideo.com

Tuner Chip

Microtune, Inc., has announced the MicroTuner MT2130, a new tuner chip that brings digital TV to PC notebooks, portable TVs, tuner sticks, portable DVD players, and other small devices that demand both high-performance and lower power. The tuner, when integrated into portable consumer products, allows users to watch analog and digital TV across cable or off-air broadcasts, to time-shift programs, and to capture video for multimedia applications. The MT2130 packs the functionality of three tuners (analog, digital terrestrial, cable) into a miniature device, eliminating numerous external components. The chip supports multiple TV transmission standards (ATSC, QAM, DVB-T, ISDB-T, DMB-T, NTSC, PAL, and SECAM). At 1/4-in. in size, the MT2130 chip fits into very small designs, such as dongle or flash-stick packages, and can be easily configured in multituner architectures, which enable diversity applications and permit users to watch and record two or more channels simultaneously.—www.microtune.com