

New Products

Videotape Recorder

Panasonic Broadcast has unveiled the AJ-HD1800, a full-size DVCPRO HD studio VTR for broadcast, post-production, and mobile production uses. It includes 720/50 recording, a built-in upconverter, UMID/VANC metadata recording/playback, and expanded IEEE 1394 interface capabilities. It records for 126 min at 100 Mbits/sec with 4:2:2 sampling and intra-frame compression on a single XL DVCPRO HD cassette in both 1080i and 720p, including 720/50p. It plays back all DVCPRO HD sources as well as 1/4-in. DV-based compression formats. The AJ-HD1800 offers continuous variable HD slow motion playback of -1.0 to +2.0 normal speed. It comes standard with HD-SDI input/output and SD-SDI output for line recording and in-studio production and RS-422 remote operation and is equipped with extensive front panel editing controls, a numeric keypad, and a high-resolution, built-in 3 in. LCD monitor that can eliminate the requirement for external monitoring. Other key features include jog and shuttle dial with up to 32x normal speed in forward/reverse, SD analog composite output, RS-232C and encoder remote controls, four user settings, and up to 60 cue points.—www.panasonic.com/broadcast



Receivers

Motorola Inc. has introduced the DSR-6000 series receivers, which is the first step in allowing networks to use both MPEG-4 AVC and MPEG-2 compression technologies. This series enables operators to receive programming in bandwidth-efficient MPEG-4. This, coupled with more efficient higher-order modulation technology, reduces satellite transponder requirements by up to 75%, allowing programmers to deliver additional high-quality high-definition (HD) and standard-definition (SD) programming. The receiver converts content into MPEG-2 for operators with MPEG-2 set tops. The DSR-6000 series allows programmers to distribute content solely in the MPEG-4 HD format, while enabling service providers to deliver in either MPEG-4 or MPEG-2, and in standard- or high-definition formats.—www.motorola.com

Transmitter

RF Central has introduced the RFX-CMT-II 5.8 GHz camera-mounted transmitter. The unit offers complete HD upgradeability with the latest in high-quality, low-latency, HD encoding technology. It provides live and realtime image transmissions, with inputs of HD, SDI, ASI, or composite video signals. Applications include high-quality imagery for live stadium displays, broadcasts, surveillance, monitoring, and situational awareness. The unit offers a variable 6/7/8 MHz modulator, 100mw power output, and full MPEG menu control by the user. The RFX-CMT-II's linear RF amplification technology limits spectral regrowth at full power to less than -35dBc. The CMT-II is offered presently in the 2GHz and 5.8GHz frequency bands. Other frequencies are available upon request.—www.rfcentral.com



Recorder

Panavision has announced the SSR-1, a next-generation lightweight solid-state recorder. Weighing less than 6 lb, the SSR-1 can record 1080P 4:4:4 or 4:2:2 at the customary fixed speeds formats, including 23.98P, 25P, and 29.97P frames/sec along with variable speed capability. The SSR-1 records in industry standard uncompressed single- or double-link HDSDI form, allowing seamless transfer to HDCAM SR. A small lightweight companion docking station, the SSRD provides HDSDI and audio outputs for footage recorded on the SSR-1. The SSRD can be used for record/playback on the set or in a post-production setting.—www.panavision.com

Multiplexers

Texas Instruments has introduced three high-speed video multiplexers, combining wide bandwidth, high slew rate, fast switching time, and low switching glitch to optimize performance in professional video applications. The devices feature industry-leading wide bandwidth and fast slew rate, which allows the multiplexing of large amounts of data, such as high-resolution professional video signals, at higher speeds than previous generations. The OPA875 single-channel and OPA3875 three-channel 2:1 multiplexers feature a small signal bandwidth of 700 MHz with a slew rate of 3100 V/us, which supports a large signal bandwidth of 425 MHz at 4Vpp. The OPA4872 single-channel 4:1 multiplexer offers a slew rate of 2300 V/us for a bandwidth of 500 MHz at 2 Vpp. The devices also feature a patented low-glitch switching technique to enable fast and seamless multiplexing of high-speed signals.—www.ti.com/amplifier

