New Products

Camcorder

Panasonic has announced the AJ-HPX3000 native 1080p one-piece camcorder. With three 2/3 in. high-density 2.2-megapixel CCDs, the HPX3000 captures cinema-quality images in full-raster 1920 x 1080 resolution with 4:2:2 10-bit. The HPX3000 records in industry-standard DVCPRO HD at 1080 in 24p, 25p, 30p, 50i and 60i, and in AVC-Intra. The camera can also produce standard-definition recordings in DVCPRO50 and is 60/50-Hz switchable for worldwide use. The HPX3000 has a high sensitivity of F10 at 1,000 lux in 1080i, and a minimum illumination of .064 lx (at +56 db gain-up). It offers five card slots and with five 16 Gbyte P2 cards installed, recording up to 100 min in AVC-Intra 100 at 1080/24p, 200 min in AVC-Intra 50 at 1080/24p, 160 min in other AVC-Intra 50 formats, and 80 min in other AVC-Intra 100 or DVCPRO HD formats.—www.panasonic.com

Encoder

Digital Rapids has unveiled the StreamZ Live product line, a new family of live streaming encoders optimized for demanding applications from live IPTV channels to webcasting. Four StreamZ Live models offer a choice of encoding format: SMPTE VC-1 (Microsoft Windows Media Video), H.264 (AVC, MPEG-4 Part 10), On2 VP6-based video for Adobe Flash, and MPEG-2. An optional module for the H.264 model adds the ability to deliver H.264 in an MPEG-2 transport stream to the system's standard RTP/RTSP elementary stream support. Offered in a 1RU rackmount form factor, StreamZ Live is available with a variety of video and audio input options. Advanced, hardware-based video and audio pre-processing features—including motion adaptive de-interlacing, 3-D motion-adaptive video noise reduction, and dynamic range compression/expansion—enable optimum output quality and the most efficient use of bandwidth in the compressed result.—www.digital-rapids.com

Equalizers

Cypress Semiconductor Corp. has added two new multirate video cable equalizers to its portfolio. The new HD/SD/DVB-ASI video equalizers are targeted for applications with shorter cable lengths, while the new SD/DVB-ASI video equalizers address broadcasting equipment requiring only SD-SDI or DVB-ASI bit rates. The devices offer PC video capture cards, video switchers, video routers, logo generators, satellite decoders, and DVB-ASI encoder/decoders. Both equalizers have 160-mW typical power consumption with a 3.3-V power supply. The SD/DVB-ASI video equalizers remove inter-symbol interference from video signals traveling over a cable and use adaptive equalization to support different cable lengths up to 350 m. The HD/SD/DVB-ASI video equalizers also use adaptive equalization to drive equalized SD signals up to 350 m on coaxial cable, and HD signals up to 140 m. The SD/DVB-ASI equalizers are compliant with SMPTE 259M and DVB-ASI data rates, while the HD/SD/DVB-ASI equalizers are compliant with SMPTE 292M, 344M, and 259M, as well as DVB-ASI.—www.cypress.com

Processor

Panasonic has announced the delivery of its new AJ-HDP2000 2K processor. Designed for post-production, telecine systems, and dual-link 4:4:4 HD video system cameras, the AJ-HDP2000 provides recording, editing, and archiving 2K and 4:4:4 HDTV images on the post-production standard D-5 HD mastering video tape recording system. The processor comes equipped with the industry-standard SMPTE 372M dual link SDI input/output interface. Video signal, audio signal, and TV are embedded into one system for connection to high-end linear and telecine equipment. It also features a 4:4:4 to 4:2:2 conversion capability that allows professionals to output a 4:2:2 video signal from the units HD-SDI terminal for easy interfacing with high-definition equipment. The AJ-HDP2000 maintains full eight-channel 24-bit recordings, as well as the ability to handle compression audio streams for multichannel/second language applications. Time code in/out is embedded on XLR. Maximum record time is 155 min at 24 frames/sec HD/2K modes.—www.panasonic.com

Reference Design

Gennum Corp. has introduced the industry's first reference design and development board to deliver 3 Gbit/sec transmission using existing dual-link equipment. The new reference design and development board converts a SMPTE 372M dual link 1080p50/60 serial digital interface (SDI) signal to an industry standard SMPTE 424M compliant 3 Gbit/sec signal and vice versa. Enhanced performance is achieved by the combination of Gennum's video transport products used in the design, each of which is optimized for 3 Gbit/sec performance. Specifically, the reclocker results in a solution with 0.8UI of input jitter tolerance. The reference design includes Gennum's equalizer, reclocker, cable driver, timing generator, clock cleaner, dual optical receiver, and transmitter. Additionally, designers can choose to transmit over coaxial cable or optical fiber, depending on their application. —www.gennum.com