

New Products

Digital Recording System

RGB Spectrum has announced the DGx Model 102 digital recording system, designed for applications demanding high quality, realtime recording of high-resolution signals without down conversion. The system captures, stores, and plays back imagery at up to 1600 x 1200 pixel resolution. It is the only digital recording system that can record multiple signal types simultaneously, including computer, radar, video, sonar, FLIR, and X-ray signals, as well as audio. The DGx can handle up to two channels simultaneously and simplifies the task of synchronized playback, because inputs are multiplexed on a single storage device. Recordings are time-stamped and may be event-marked for random access. On playback, the two images can be displayed on a single monitor or on separate monitors. A video input option replaces one of the RGB channels with a composite/component/S-Video input channel for recording video.

Encoder

Tandberg Television has announced the release of its ATSC- and DVB-compliant E5780 encoder. The E5780 brings key benefits in efficiently managing bandwidth utilization in traditionally bandwidth-heavy HD applications, such as digital cinema and digital dailies. The unit features improved processing power for better overall performance, implementation of the SMPTE 334 standard for embedding closed captioning into the vertical ancillary space of high-definition SDI signals, and embedded timecodes to facilitate editing of high-definition signals for digital daily applications. Additionally, the encoder offers bit rates of up to 90 Mbits/sec, making it appropriate for use in digital cinema transmissions.

Upconverter

Snell & Wilcox has launched the UpCaster, a compact, high-performance HD upconverter for use in transmission and production. UpCaster is specifically designed to enable U.S. broadcasters to achieve high-quality DTV picture on air at an economic price point. Also, ideally suited to live production due to its low latency, UpCaster offers a one-box solution for the upconversion process. Easily configurable and designed primarily for fixed-mode operation, UpCaster can handle all common HD formats. It uses a specially designed three-dimensional linear interpolation filter to guarantee the best possible picture quality in all modes. For transmission, the advanced 2:2/3:2 film processing capabilities ensure that the best possible images are extracted from all material. The converter includes fine control of aspect ratios, advanced color space conversion, pan, tilt, blanking, and timing adjustment facilities.

Video Measurement Set

Tektronix, Inc., has announced a fully-automated component analog video signal analyzer that measures high-definition, progressive scan, and PC format signals for consumer video equipment manufacturers, video network operators, and others that require fast and repeatable testing. The VM5000HD automated video measurement set provides users with a fully automated system that saves time, speeds development, and improves product quality by simplifying and standardizing testing. It provides fast, accurate, and repeatable video measurements in 1080i, 720p, 480p, and SXGA formats utilizing multiple industry-standard video parameters, without the need for complicated instrument setups, algorithm selection, time-consuming manual measurements, or tedious results correlation.

RGB Spectrum, tel: (510) 814-7000; website: www.rgb.com

Snell & Wilcox, tel: (408) 260-1000; website: www.snellwilcox.com

Tandberg Television, website: www.tandbergtv.com

Tektronix, tel: (800) 426-2200; website: www.tektronix.com



Tandberg Television's E5780 HD encoder.



The VM5000HD automated video measurement set from Tektronix.



The Upcaster upconverter from Snell & Wilcox.

2003 SMPTE STANDARDS CD-ROMS

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- SMPTE 224M-2003** Television Digital Component Recording — 19-mm Type D-1 — Tape Record
- SMPTE 225M-2003** Television Digital Component Recording — 19-mm Type D-1 — Magnetic Tape
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- SMPTE 246M-2003** Television Digital Recording — 19-mm Type D-2 Composite Format — Magnetic Tape
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- RP 210.4-2002** Revision of RP 210.2-2001 - SMPTE Recommended Practice - Metadata Dictionary Registry of Metadata Element Descriptions
- RP 222-2003** Standard Definition Evaluation Materials for Digital Television
- EG 10-2003** Tape Transport Geometry Parameters for 19-mm Type D-1 Television Digital Component Recording
- EG 39-2003** Overview of Declarative Data Essence

New Proposal SMPTE Documents

- SMPTE 268M**, Proposed Revision of ANSI/SMPTE 268M-1994 PROPOSED SMPTE STANDARD for File Format for Digital Moving-Picture Exchange (DPX), Version 2.0
- SMPTE 374M**, Mapping of Vertical Ancillary Data Packets and Extended Video Line Data into Video DIF Blocks of DV-Based 50 Mb/s DIF Stream Format (\$36.00 US)
- SMPTE 375M**, Mapping of Vertical Ancillary Data Packets (VANC) into VAUX DIF Blocks of DV-Based 100 Mb/s DIF Stream Format (\$30.00 US)
- SMPTE 376M**, Mapping of Vertical Ancillary Data Packets (VANC) into VAUX DIF Blocks of DV-Based 25 Mb/s or 50 Mb/s Streams and Extended Video Line Data into VAUX DIF Blocks of DV-Based 25 Mb/s Stream (\$32.00 US)

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- Rec. ITU-R BS.647-2**, A Digital Audio Interface for Broadcasting Studios
- Rec. ITU-R BS.775-1**, Multichannel Stereophonic Sound System with and without Accompanying Picture
- Rec. ITU-R BT.470-6**, Conventional Television Systems
- Rec. ITU-R BT 471-1**, Nomenclature and Description of Colour Bar Signals
- Rec. ITU-R BT.601-5**, Studio Encoding Parameters of Digital Television for Standard 4:3 and Wide-Screen 16:9 Aspect Ratios
- Rec. ITU-R BT.656-4**, Interfaces for Digital Component Video Signals in 525-Line and 625-Line Television Systems Operating at the 4:2:2 Level of Recommendation ITU-R BT.601 (Part A)
- Rec. ITU-R BT.709-4**, Parameter Values for the HDTV Standards for Production and International Programme Exchange
- Rec. ITU-R BT.799-3**, Interfaces for Digital Component Video Signals in 525-Line and 625-Line Television Systems Operating at the 4:4:4 Level of Recommendation ITU-R BT.601 (Part A)
- Rec. ITU-R BT.1120-3**, Digital Interfaces for HDTV Studio Signals
- Rec. ITU-R BT.1364**, Format of Ancillary Data Signals Carried in Digital Component Studio Interfaces
- Rec. ITU-R BT.1366**, Transmission of Time Code and Control Code in the Ancillary Data Space of a Digital Television Stream According to ITU-R BT.656, ITU-R BT.799 and ITU-R BT.1120
- Rec. ITU-R TF.457-2**, Use of the Modified Julian Date by the Standard-Frequency and Time-Signal Services

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New Approved SMPTE Documents

- ANSI/SMPTE 300-2002**, Motion-Picture Color Print Film (35-mm) — Manufacturer-Printed Latent Image Identification Information
- RP 200-2002**, Revision of RP 200-1999 - Relative and Absolute Sound Pressure Levels for Motion-Picture Multichannel Sound Systems — Applicable for Analog Photographic Film Audio, Digital Photographic Film Audio and D-Cinema
- RP 216-2002**, Specifications for 3-Perforation Test and Alignment Film for 35-mm Motion Pictures

New Proposal SMPTE Document

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