

New Products

Editing Equipment

The **DLE-100 nonlinear live editing system** from Sony Electronics, Inc., is specifically designed to provide highlight, clips, and segments for slow-motion playback, as well as for live applications such as sports programs and outside broadcast events. The two-channel DLE-100 features simultaneous recording and editing/playback to air, live-oriented GUI, and two editing modes — picture editing mode for simple and speedy cut editing and time-line editing mode for split editing for audio and video.

Graphics and Special Effects

Sony's **DME-7000 digital multiple effects system** provides superb picture quality by using the technologies of both multipoint interpolation and pixel-based/anti-alias filter. Standard 3-D linear effects include 3-D location, rotation, compression, expansion, color, mosaic, multimove, and defocus/blur. The recursive effects — drop shadow, Advanced Shadow™, lighting, wipe, crop, nonlinear effects, Digital SPARKLE effects and Digital SKETCH — are available as options.

Monitors and Displays

The **SMS-1P powered near-field monitor** from Sony has a 10-cm full-range design, allowing it to achieve playback with a highly accurate mixing balance. Antimagnetic properties make the SMS-1P useful in such applications as desktop music and video editing. The monitor allows for two types of inputs for enhanced mixing capabilities. Both types of inputs control the input volume for independent sound level changes. It also features an antimagnetic speaker unit, large heat sink, and built-in power amp; bass/treble control for sound that matches the listening environment; and mounting capabilities.

Power Supplies

The **NP-1C broadcast battery** from United States Broadcast is made of nickel metal hydride cells, which allow for more power capacity and a lighter weight than conventional nickel-cadmium batteries. The NP-1C is a replacement for the NP series of broadcast batteries.

United States Broadcast has also introduced two battery chargers. The **Lightning 4**, specifically designed for the company's NP series of batteries, will charge nickel metal hydride batteries; it also has an elective discharge cycle to

eliminate "memory" in nickel cadmium batteries. The **Generals series** of chargers have 3-in. x 6-in. LCD displays; full battery analyzer functions; and the ability to charge lead acid, nickel cadmium, nickel metal hydride, and lithium batteries.

Projection Equipment

Sharp Electronics Corp. announced the availability of the **XG-E630U**, a 16-million-color, all-in-one LCD computer/video projector. It incorporates a super-high aperture ratio, 6.4-in., 16-million-color TFT active matrix LCD panel with 307,200 full RGB pixels in an in-line "stripe" configuration, allowing 50% more light to pass through the pixel opening. The XG-E630U has direct compatibility with virtually all popular and Macintosh computers (640 x 480 resolution) as well as providing SVGA compression for compatibility with the newest 800 x 600 resolution PCs.

Signal Processing/Transmission Equipment

Hewlett-Packard Co. announced its newest generation of **digital broadcast video servers** designed specifically for the broadcast industry. The servers are expandable and upgradeable and provide a host of advanced server features, including full networking capabilities, a fault-tolerant architecture, industry-standard MPEG-2 video compression, and an open platform for application development. They are available in a variety of input/output configurations, ranging from two to six channels, which can be expanded as needed for high-bandwidth, standards-based Fibre Channel networking. They also have a number of storage options, providing from 8 to nearly 50 hr of video storage. Both input/output and storage options can be upgraded for additional flexibility. Six channels of AES/EBU digital audio for every video channel is provided.

The **DSC-1024 digital scan converter** from Sony has the capabilities of a scan frequency converter, a transcoder, a standards converter, an aspect ratio converter, a line doubler, and a signal processor in one small box. It upconverts images from standard TV pictures and makes the scan lines invisible, and downconverts high scan frequency sources, such as computer software presentations, to a lower video scan frequency for presentations on large-screen video monitors or video projectors. This unit also converts from NTSC to PAL and PAL to NTSC.

Telebyte Technology, Inc., has introduced the **Model 224 optically isolated short haul modem/transceiver**, featuring full duplex data transmission, handshake signals, loopback control, and the DataSpy display. The modem provides for transmission of a handshake signal in each direction, in addition to full duplex data up to 19.2 Kbytes/sec over distances up to 10 mi and with complete optical isolation. To aid in testing and diagnostics, a loopback switch simultaneously loops the data back on itself for the local modem and loops back the line on itself to test the remote modem.

Tiffen Manufacturing Corp. recently released two new filters to create a nighttime appearance when filming during the day, simplifying production requirements. The **Cool Day for Night filter** is based on the perception that moonlight is cool, therefore bluish in color. To simulate a feeling of moonlight a particular shade of lavender is used, producing visual coolness while maintaining realistic flesh tones. In addition, since the ability to see detail at night is diminished at lower light levels, a low contrast component is added to the filter. The **Monochrome Day for Night filter** is based on the fact that low light levels reduce the sensitivity of the eye to color, causing a more monochromatic effect. The filter skews the color balance so that upon fine tuning the color timing, the proper monochromatic effect can be created. The filters are available in sizes to fit all professional motion-picture and video lenses.

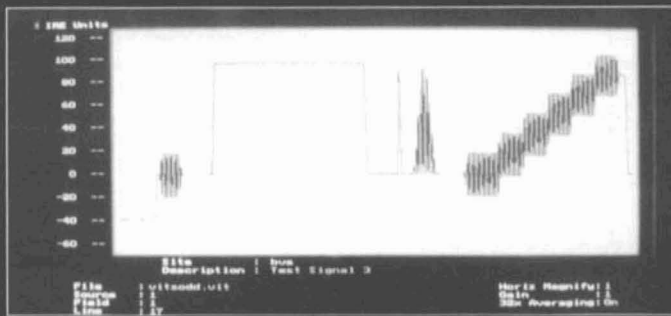
Tiffen also developed two new additions to their line of graduated color filters. The **SkyFire Color Grad** is a combination of color and neutral density. It starts out at the top with an ND/red combination, then shifts to salmon, gradually turns to straw, and then fades to clear. The **Twilight Color Grad** is a combination of deep lavender, gradually shifting to pink, and then to clear. The effects take place on half of the filter, leaving the other half clear for shooting foregrounds without color. Both can be used to simulate dawn or dusk during regular daylight hours, or to help embellish what nature sometimes fails to provide when needed. They are available in sizes to fit all professional motion-picture and video lenses.

Storage

Flash Multislides from Leitch, Inc., are single- and dual-channel cards that allow storage of 2 to 16 slides, depending on memory configuration. The two-channel card is available with or without genlock circuitry; one genlockable card (or 1302GL)



Telebyte Technology's Model 224 transceiver.



The VITS 2 video analyzer from Broadcast Video Systems.



DV cassettes for the Ampex DCT System from Quantegy, Inc.



Quantegy's Ampex digital Betacam videocassettes.

required by digital systems. Each particle is coated with a specially developed protective coating layer to ensure long-term stability. The new tape formulation is designed to reproduce full-spectrum audio tracks, which allows it to be used in applications ranging from ENG/EFP to film and video post-production. Anti-static plastics used in the cassette shell reduce dust attraction and avoid BER buildup.

Correction:

Fuji Photo Film Co. introduced its ATOMM Zip Disk 100, a 100-Mbyte super floppy disk. The size of the disk was incorrectly reported in *The 1995 Progress Report*, April 1996, page 187.

For further information regarding the new products and developments listed in this section, contact the companies directly at the addresses listed below:

Broadcast Video Systems Corp., 40 W. Wilmet St., Richmond Hill, Ont., Canada L4B 1H8, tel: (905) 764-1584, fax: (905) 764-7438

Hewlett-Packard Co., Direct Marketing Organization, P.O. Box 58059, MS51L-SJ, Santa Clara, Calif., 95051-8059

Leitch Inc., 920 Corporate Ln., Chesapeake, VA 23320, tel: (804) 548-2300, fax: (804) 548-4088

Prime Image, 19943 Via Escuela, Saratoga, CA 95070, tel: (408) 867-6519, fax: (408) 926-7294

Quantegy, Inc., 1025A Terra Bella Ave., Mountain View, CA 94043-1829, tel: (415) 903-1100, fax: (415) 903-1141

Sharp Electronics Corp., Sharp Plaza, Mahwah, NJ 07430-2135, tel: (201) 529-8731, fax: (201) 529-9636

Sony Electronics, Inc., 1 Sony Drive, Park Ridge, NJ 07656, tel: (800) 635-7669

Telebyte Technology, Inc., 270 Pulaski Rd., Greenlawn, NY 11740-1616, tel: (516) 423-3232, fax: (516) 385-8184

Tiffen Manufacturing Corp., 90 Oser Ave., Hauppauge, NY 11788, tel: (516) 273-2500, fax: (516) 273-2557

United States Broadcast, 2794 Circleport Dr., Erlanger, KY 41018, tel: (606) 282-1802, fax: (606) 282-1804

Videotek, Inc., 243 Shoemaker Rd., Pottstown, PA 19464-6433, tel: (610) 327-2292, Fax: (610) 327-9295

is required per frame. Other features include field programmability and programmability with Leitch's 2602VC real-time capture card and a 1302 control panel.

Test and Measuring Equipment

The VITS 2 video analyzer from Broadcast Video Systems Corp. is designed for remote video quality monitoring. Any line of the video field can be sampled, digitized, and sent by modem to a PC with a VGA display capability; once received at the PC, the signal can be displayed on the computer monitor. To facilitate measurement, the display can be filtered, amplified, or expanded. A signal-to-noise measurement readout is also included.

The HP 54616B from Hewlett-Packard Co. features 500-MHz bandwidth, 2-Gsample/sec sample rate, 1-nsec digital peak detect at all sweep speeds, and 50- Ω input capability to ensure accurate high-speed measurements. It also offers a three-processor architecture to allow fast front-panel responsiveness; a fast update rate that takes quick, frequent acquisitions to reduce the chance of missing waveform variations; a 5-K memory depth that, combined with a high sample rate, catches narrower-duration events that scopes with less memory and slower effective sampling rates miss; and repetitive waveform sampling in all time base settings to eliminate signal processing and interpolation via algorithms.

The Xpon time base corrector/synchronizer from Prime Image, Inc., has component capability for both input and output. It

allows the mixing of component and composite sources for multi-input switcher effects. Signals are transcoded between component and composite, as well as Y/C both in and out. Xpon is available in NTSC, PAL, or PAL-M.

The VSG-204D digital sync and test generator from Videotek, Inc., has ten serial digital video test signals available at the push of a single button. Free run or genlock capability, 525/60 or 625/50 operation, and four analog black burst outputs are included in this 1-RU package. Additionally, there are separate output phase adjustments on three of the black burst outputs. The VSG-204D has stereo analog tone outputs, two AES/EBU audio pairs, and four channels of embedded audio in the 601 test signals.

Videotapes, Cassettes, and Discs

Quantegy, Inc., introduced its Quantegy DV Series of 19-mm digital videocassettes for use with the Ampex DCT™ digital post-production system. The series features an ultrahigh coercivity metal particle formulation to provide high output and short wavelength response. A tough binder system incorporates more dominant cross-linking to provide multiple-pass durability for reliable performance during heavy editing and still framing.

Quantegy's Ampex-brand DBC digital Betacam videocassettes have ultrasmall metal particles to develop higher magnetic energy and deliver the higher output