

New Products

Analyzer

The **LT 5910 SDI analyzer** from Leader Instruments Corp. features three monitoring modes to check all digital data stream aspects and utilizes a frame-store technique to edit actual in-frame data on a pixel-by-pixel basis. This instrument monitors EDH, TRS, ANC, and gamut errors, handling digital composite and component readings at 525/60 and 625/50. SDI levels are measured in terms of equivalent cable length. Error totals can be recorded over specific periods. Key operational advantages include status readouts of 16 audio channels, ten preset/recall monitor programs, RS-232C data readout and controls, SDI eye-pattern monitoring, local and remote alarms, and printer output.

Batteries/Charger

Frezzi Energy Systems, a division of Frezzolini Electronics Inc., has announced the **FSP-100 super brick battery** which provides 7Ah, 14.4 volts with 100 watt-hours, giving the user over 50% more run time than standard bricks. The FSP-100 is also available with Frezzi's new **Energy Gage, FSP100EG**. Energy Gage batteries feature an "intelligent" or "smart" micro-processor that tracks, learns, and continually updates and calibrates the energy level available in the capacity meter throughout the life of the battery.

Frezzi's new **hot swap battery system** allows camera operation from one, two, or three NP-1 batteries in the unit. The hot swap multi-battery case is similar to a standard brick battery and will adapt to existing on-board brick mounts: the NP-1 and the Sony SX V-mount. The system provides 50% to over 250% more power than standard bricks, as well as the highest run time.

Frezzi's has also announced the specially designed **M1000 universal single-channel charger** for use in the field or on location. Its compact design allows the M1000 to be effortlessly transported to various ENG locations and once in operation the unit will charge any NiMH or NiCd battery quickly and efficiently. It features a battery rescue for abused or over-discharged batteries, discharge mode, and a bargraph voltage indicator.

Color Corrector

Videotek has announced the **SDC-831 digital color corrector**. With internal 4:4:4, 16-bit processing, the SDC-831 has the highest resolution and most transparent processing available in its class. It provides immediate control of gains, gamma, and black levels

for total video and components. Features include RGB gamut legalizing, encoded gamut legalizing, and vector limiting. It has all of the desired proc amp controls and memories with realtime transitions. The remote panel may be used with any combination of up to 30 panels and units. It uses controls familiar in the analog world and has video adjustments of up to 800%.

Converters

Evertz Microsystems Ltd. has announced the HDTV relocking electrical-to-fiber conversion **DA 7705EO-HD** and HDTV relocking fiber-to-electrical conversion **DA 7705OE-HD** as the system to enable the use of fiber to provide longer distance distribution and redistribution of programming in HD-SDI (1.5 Gbits/sec). The 7705OE-HD provides conversion from optical signals sent over fiber to two outputs relocked of 1.5 Gbit/sec serial video via coax. The 7705EO-HD provides conversion of 1.5 Gbit/sec serial video on coax to optical for signal distribution via fiber and distribution of two re-locked 1.5 Gbit/sec video outputs.

Evertz has also announced the HDTV **monitoring down-converter model 7710MD**. This high-definition DA is ideal to use with existing standard-resolution monitors whether they have NTSC or serial digital inputs. The 7710MD accepts either 1080i or 720p (SMPTE 292M) input and offers four outputs of either two 1.5 Gbit/sec relocked outputs, two NTSC, or two serial component digital outputs.

Data Transceiver

Communications Specialties, Inc. has introduced a new **universal data transceiver** from Math Fiber Optics. Designed to transmit and receive all standard data-related signals in accordance with EIA specifications for RS-232, RS-423, or RS-485, the universal data transceiver may be used with either multimode or single-mode fiber and is suitable for simplex, full-duplex or drop-and-repeat operation. The universal data transceiver may be easily user configured for the protocol desired or for mixed protocol operation. It may also be used in a low-speed mode for all data rates from DC up to 2.1 Mbits/sec, or in a high-speed mode for all data rates from 10 Kbits/sec to 10 Mbits/sec. Each transceiver has an LED indicator, which continuously monitors the presence of transmitted and received signals, as well as operating power. An internal regulator allows operation from unregulated DC power or batteries.

Encoders

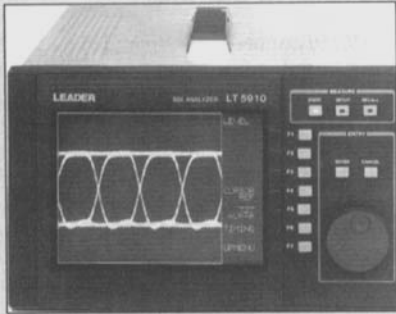
Tiernan Communications has introduced the **TE600 high-performance MPEG-2 DSNG and TE300A MPEG encoders**. The TE300A MPEG is a powerful, flexible television broadcast encoder with built-in QPSK satellite modulator supporting 4:2:0 profiles according to the MPEG-2 standard ISO/IEC 13818-2. It features one-touch modulator control buttons for simplified operation, an easy-to-read, illuminated LCD status, and a control panel with push button controls. It has remote control functions (using ASCII commands) via the EIA-232 remote control port. The front panel has new, quick setup features that allow frequency and satellite parameters to be preset at the base of operations, relieving the workload of field personnel at the transmission site. The TE600 DSNG has all the features and capabilities of the TE300A. Additionally, it supports both 4:2:0 and 4:2:2 profiles and can be chained for multi-channel operations.

Film

Fuji Photo Film has introduced its new **F-500, Type 8572 and 8672 high-speed color negative (EI 500T) film** for cinematography. The F-500 exhibits remarkably fine grain and sharpness. Extended tonality, improved sharpness, and optimized mask density has improved its telecine performance for direct transfer to video. The film uses flat grains in all light-sensitive layers and delivers smoother grain and higher resolution. With finer grain, more sharpness, and longer straight-portions of characteristic curves, the F-500 enables the user to create shadow details better than previous stocks.

Graticule Generator

Evertz Microsystems Ltd. has announced the **HD9590 HDTV graticule generator**. The HD9590 provides all the alignment tools and easy-to-use features needed for the telecine and the post-production graphics suite, all in full-bandwidth serial HDTV 1.5 Gbits/sec. It provides tools required for film transfer and post-production facilities to expedite picture location, alignment of areas to assist in animation and graphics, and blanking, for viewing during film transfers. The HD9590 features video-safe action/title, center cross, horizontal/vertical centering lines, on-screen box, marker cursors, automatic creation of aspect ratio, 16:9 or 4:3 modes, and hard matte controlled via the front panel. The on-screen readout display allows accurate cursor position and relative measurement readout.



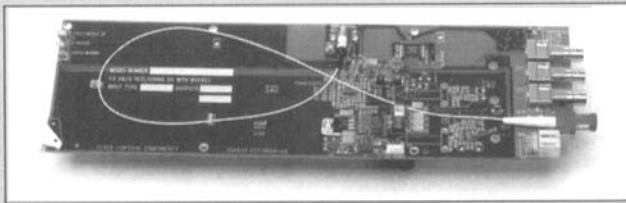
The LT 5910 SDI analyzer from Leader Instruments Corp.



The SDC-831 digital color corrector from Videotek.



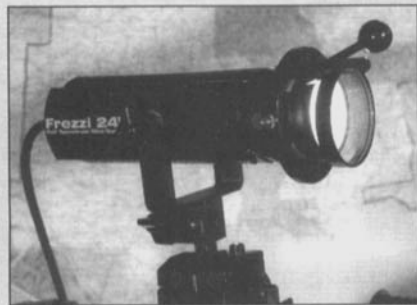
Math Fiber Optics Model 5012-3 universal data transceiver from Communications Specialties Inc.



Evertz Microsystem's DA 7705OE converter.



HD graticule generator from Evertz Microsystems



Frezzi's HMI light with flip-down filter.



Frezzi's HMI light with soft box.



LV 5152D HDTV digital analog waveform monitor from Leader Instruments.

Lenses

Century Precision Optics, has introduced the **SwingShift 14mm f2.8 lens**. With the SwingShift system, operators can distort the shape of a subject, remove unwanted objects from a frame, or shoot straight into a mirror without catching unwanted camera reflection. Shifts and swings achieve nearly total control over the focus plane for extremely deep or shallow depth of field. The lens also provides extreme depth of field without stopping down, focus and perspective control, and extremely close focus.

Fujinon Broadcast & Communications Products Division has announced the release of several new lenses. The **HA26X6.7ESM** is one of Fujinon's growing family of DigiPower lenses. This latest high-definition studio lens has a focal length range of (6.7mm to 175mm or 13.4mm to 350mm with a 2X extender) and field of view (71.37° horizontal range of view in 16:9). It provides camera operators

with the capability to shoot a wide-angle view from a minimum object distance of 0.6mm.

The **HA15X8BEVM** is the first high-definition lens designed for ENG production with digital servo controls. It features Fujinon's V-Grip system, which allows the servo grip angle to be adjusted from 3 to 17°. A 10-step digital zoom-speed adjustment allows operators to shoot in all conditions while the internal focus system eliminates the need to readjust filters after focusing. The lens weighs only 3.5 lb and features Fujinon's Aspheric technology that reduces lens weight, minimum object distance (MOD) and chromatic aberration, and improves corner resolution.

The **A22X7.8EVM** and **A22X7.8BDEVM** ENG lenses both feature the longest focal length (172mm) and the widest angle of view (58.58°) in their category and are the first lenses designed for ENG production with digital servo controls.

New among Fujinon's DigiPower Series is the company's **Digi Power 24 (Ah24X7**

ESM) lens for EFP applications. The Digi Power 24 features the same high image quality of the analog Ah24x7 lens and has been developed to meet the needs of the next generation of digital broadcast technology. Fujinon has also announced its **Digi Power 70 lens**. Both the Digi Power 24 and the Digi Power 70 incorporate a new digital servo control system for the control of zoom, focus, and iris functions.

Fujinon has also introduced two new **inner-focusing lenses** available in either ENG or videoconferencing style design. The **A17X9RM** for 2/3-in. format cameras has inner focus and servo zoom. It has a zoom ratio of 17X, maximum aperture of F1.9 from 9mm to 153mm, minimum object distance of 0.9 m, and macro capability. The **S17X6.6RM** is designed for 1/3-in. cameras and also has inner focus and servo zoom. Its focal length ranges from 6.6mm to 112mm with a maximum aperture of F1.4, zoom ratio of 17X, minimum object distance of 0.9 m, and macro capability.

Lighting Systems

Frezzolini Electronics Inc. has introduced a full line of new full-spectrum lighting systems based around the company's 50, 24, and 18-W HMI units. This system features products specifically addressing the needs of digital cameras. The 50, 24, and 18-W HMI are color balanced at 5500° K providing true daylight color-balance light without the need for a corrective filter. Color temperature can be obtained by flipping down a filter that will automatically convert it to a tungsten balanced indoor light, providing low-power consumption and high light output. The lights deliver the equivalent output of a 200, 100, and 75-W tungsten quartz daylight corrected output, respectively. The HMI bulb has a lifetime of 4000 hr.

Logo Inserter

Evertz Microsystems Ltd. has announced the **HD9525LG HDTV logo inserter**. This system features fade-in and fade-out control, capability of keying multiple simultaneous logos with independent fade control, stores and inserts static or animated logos, incorporates a high-quality variable transparency mixer, fade-to-black of program video and is capable of storing 50 1/16th screen size logos. The HD9525LG consists of a 1 RU frame with front-panel control and an available remote-control panel.

Switcher

The Isis Group has announced a new **protection switcher**. The DRTS-201 is a multi-level 2 x 1 switcher consisting of a single channel of SDI video, two channels of AES/EBU stereo audio, and five general purpose interface inputs. Video presence circuitry checks for vertical sync and automatically switches from the primary to the alternate input in the event of a loss of signal. The local control panel on each DRTS allows an operator to manually switch from primary to backup, change the mode of operation from automatic to manual, and monitor the power supply health and video presence on each of the inputs. Analog video and audio-monitoring outputs of digital input signals are provided.

Tape Recycling and Rejuvenation System

Research Technology International Co. has introduced the new **TapeChek Pro Line 5100 recycling and rejuvenation system** for DVCPRO and DVCAM cassettes, which cleans and polishes tape surface, removing loose particles and dust. Tape damage is located by a state-of-the-art multicell high-resolution defect detector that scans the tape from edge to edge and reliably locates edge damage, wrinkles, and creases. It also evaluates blank tapes or recorded tapes without

affecting the recorded material. A tape information display shows tape length in minutes and the number and location of any physical defects.

Test Target

DSC Laboratories has introduced a unique **72-dB 13-Step Greyscale test target** for testing and servicing broadcast video cameras. Users can precisely evaluate and adjust a camera's greyscale and color reproduction through its full dynamic range. The new target is in 8 x 10-in. transparency format and can be used with 4:3 and 16:9 cameras. Its continuous-tone greyscale is logarithmic, with transmission values from 100% to 0.024% (0 to 3.612 density). The greyscale measures 6 x 3 3/8 in. and its background is of typical APL. Encased in a shatterproof plastic the 72 dB can be used with DSC's Ambi illuminator or any lightbox or sphere.

Video Systems

Zander Technologies has introduced its new **64-channel split-screen VXM-4 system**. The VXM-4 displays and distributes 64 video inputs simultaneously in a scheduled sequence of pages and is the newest addition to the Omnivideo Series of multichannel systems. VMX-64 systems utilize the company's multi-image display cards, which provide realtime video resizing, extensive graphics overlay onto video, and video capture to VGA. The cards become an integral part of electronic program guides, provide multimedia displays for presentations and video walls, and permit multichannel TV on the desktop.

Physical Optics Corp. has announced its new **1000 series fiber-optic serial digital video transport system**. This system features fully digital electronics, transporting SMPTE 259M SDV signals either 270 Mb/Sec or 360 Mb/Sec over long distances through single-mode or multi-mode fibers. The 1000 series supports unidirectional or bidirectional communications over a single fiber or fiber pair. Receivers provide four serial digital-video distribution lines for multi-user environments, making the 1000 series excellent for remote studio SDV signal distribution for editing, programming, and broadcasting applications.

Physical Optics Corp. has also announced its new **310/320 fiber-optic multichannel video/audio/data transmission system**. This system provides simultaneous transmission of two, four, or eight-baseband video, stereo audio (balanced or unbalanced), and RS-232/RS-422 data channels over a single multi-mode or single-mode optical fiber. The 310/320 series provides unidirectional or bidirectional communications capabilities. It offers a superior video/audio transmission specification and is highly scalable in channel capacity.

Waveform Monitor

Leader Instruments has upgraded its **HDTV digital/analog waveform monitor** with a new version, the LV 5152D, which operates in both 720p and 1080i systems. Extensive monitoring functions include waveform (YCbCr or GBR), vector (choice of electronic or external graticule), and picture and stereo monitoring. Line-select, precision cursors, menu control of digital and analog setups and storage of ten front-panel setups round out the operating features. The LV 5152D accepts two SDI inputs switchable from the front panel and provides a buffered SDI output from the feed selected. Input selection includes a three-wire analog input. Decoded pix-monitor outputs may be set to either YPbPr or GBR.

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