

Books, Booklets, Brochures

Camcorder Video Shooting & Editing Techniques, by Joan Merrill, offers practical and helpful suggestions and techniques for producing professional-quality videotapes. The 230-page publication is divided into four parts: Part I begins with an in-depth examination of the camcorder — its development, how it works, how to expand its capabilities, and how to properly maintain it; Part II examines shooting techniques, including shots and sequences, light and color, and sound; Part III covers shooting special events, such as weddings and athletic events, and special productions, including music videos and time capsules; and Part IV discusses editing techniques, including equipment and how to use a personal computer for video production. The book is available in paperback for \$24.95 and cloth cover for \$45.00, and can be ordered from Prentice Hall Inc., 200 Old Tappan Rd., Old Tappan, NJ 07675.

Camera Technology: The Dark Side of the Lens, by Norman Goldberg, provides detailed descriptions of mechanisms and explanatory diagrams of the inner workings of a camera. The book is designed to satisfy the technical specialist without intimidating the amateur photographer. The author, who has repaired, modified, designed, and analyzed cameras for the past 45 years, goes beyond describing camera functions based on advertised data. Instead, he explains how various cameras really work. The emphasis is on conventional still cameras, with the 35-mm SLR single-lens reflex dominant. The

390-page book details such areas as focusing, exposure, time lag, viewfinders, film support, hardware, testing, and basic optical formulas. The hardcover publication is available from Academic Press, Inc., Order Department, 465 S. Lincoln Dr., Troy, MO 63379, for \$39.95.

Matters of Light and Depth, by Ross Lowell, helps the reader develop a good eye for all lighting challenges. The author, who is an award-winning cinematographer and Academy Award-winning lighting equipment inventor, interweaves the insights and images of distinguished lighting directors, photographers, filmmakers, and classic painters. Some of the subjects explored are the best ways to achieve the worst lighting; lighting planes; hard and soft light considerations; lighting people; finessing and motivating the light; composing and framing; and video, film, and still-lighting differences. The book also covers subjects that baffle beginners as well as seasoned professionals, such as how to introduce and control glare, how to use but not abuse backlight, and how to motivate the light and the audience. The 224-page softcover, which costs \$28.95, includes 115 full-color pages, 92 paintings and engravings, and 50 diagrams, as well as a glossary that contains over 500 entries. To order, contact Paul & Co. Publishers Consortium, Inc., c/o PCS Data Processing Inc., 360 W. 31st St., New York, NY 10001.

Also available is **Photovideo: Photography in the Age of the Computer**, edited by Paul Wombell. The 172-page softcover

publication examines the creative freedom that is available through electronic imaging. Writers and practitioners describe applications ranging from the use of photography and multimedia to military intelligence. They report on experimental work in progress, and discuss not only the creative potential of the new technology, but its political hazards. The book costs \$19.95.

Microphone Manual, by David Miles Huber, provides the latest information on the technology of microphone design, placement, and environmental acoustics. The book offers techniques, tools, and tips on such topics as microphone pickup and its method of operation, cable/connector interfacing, single-microphone placement, stereo miking fundamentals, applied placement techniques within the music production environment, video/film media, speech and music reinforcement, and microphone accessories. The 297-page publication, which costs \$29.95, can be ordered from Focal Press, 80 Montvale Ave., Stoneham, MA 02180.

A catalog of video furniture is available at no cost from The Winsted Corp., 10901 Hampshire Ave. South, Minneapolis, MN 55438. The full-color, 108-page publication includes complete information, specifications, and pricing on the company's expanded line of video cabinets, consoles, racks, tape and film storage systems, and accessories. Several new products are also featured, including an adjustable turret for vertical racks and computer video graphics furniture.

New Products

Further information about these items can be obtained from the addresses given. As with technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

The DCT™, the industry's first practical CCIR-601 digital component production system available from one manufacturer, was announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063-3199. The system consists of a new format 19mm digital component tape drive, companion tape cartridges, post-production switcher, edit controller, digital effects system, and interconnect prod-



Ampex DCT system

ucts. The entire system is available in both parallel digital or single-cable serial digital versions for maximum interconnection flexibility and efficiency.

The company also introduced **three videotapes**. The 229 D-1 and 329 D-2 videotapes deliver improved RF output, RF envelope stability, a lower bit-error rate, and a smoother and more consistent running tape. The 398, a Betacam SP videotape, offers improvements in tape formulation, base film, backcoat, plastics, and process technology. **New packaging and enhancements** to the company's 296 Master Editing videotape were also announced. Improvements include the modification of the formulation and slitting processes, resulting in a cleaner tape edge and less debris-related dropouts.

**Nikon ENG/EFP lenses.
All you need to look good.**

When you're on location with a CCD camera reaching for the best shot possible, you need ENG/EFP lenses that are compact, lightweight, and easy to maneuver. Lenses with the flexibility to adapt to any situation. Lenses with all the star qualities found only in a Nikon.

Our ENG/EFP precision lenses are created from the same superior glass and coating technology that have made Nikon the world renowned name in optics. Which means they're made with Nikon's exclusive Extra-Low Dispersion (ED) glass. And treated with special anti-reflection coatings to minimize ghosts and flare. Plus, their strong magnesium housing makes them extremely durable. So no matter how tough the assignment, Nikon ENG/EFP lenses are even tougher.

Our full line of outstanding ENG/EFP lenses includes the Nikon S9x5.5 wide angle lens — perfect for tight, close-up shots. The Nikon S19x8, with its unsurpassed focal length and range. The all-purpose Nikon S15x8.5. And the economical Nikon S13x9.

Want to create special effects with your CCD camera? We have two ENG/EFP converters that will allow you to use your whole bag of Nikkor 35mm SLR lenses. One lets you use wide angle lenses down to an effective focal length of 2 mm. The other lets you use long focal lenses out to 1200 mm.

And in the unlikely event something should

happen to your Nikon lens, a simple call to our Nikon Express Loaner Service hotline will get you a loaner lens overnight. So you don't ever have to worry about a crew being out of action until you can get a lens repaired.

To learn more about how Nikon

ENG/EFP lenses can make you look good, call 800-52-NIKON or (516) 547-4355 for our complete brochure. Or write: Nikon Electronic Imaging, Dept.D1, 101 Cleveland Avenue, Bayshore, NY 11706.

SHOOTING STARS.

A collection of Nikon ENG/EFP lenses and converters arranged on a dark, textured surface. The items include various lens converters, SLR lenses, and camera bodies. Some lenses have labels like "Nikon Tele Converter 11x", "Nikon Wide Attachment 8mm 21x", "Nikon Wide Attachment 70mm 21x", and "Nikon EW-ENG CONVERTER".

Nikon
ELECTRONIC IMAGING

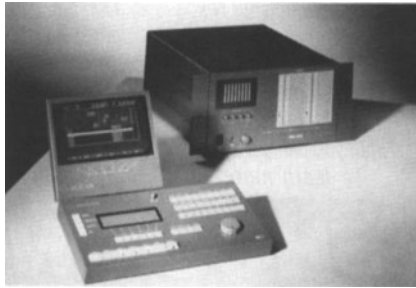
r e c r e a t i v i t y

Ultrathin, flat-panel 8.6-in. and 5.6-in. color video monitors are available from Sharp Electronics Corp., Sharp Plaza, Mahwah, NJ 07430-2135. Both products provide clear high-resolution images with a contrast ratio of more than 60 to 1. The 5.6-in. LCD video monitor, Model 6M-40U, provides a resolution of greater than 300 TV lines, an extremely fast pixel response time of 50 msec, and weighs less than 2 lb. It also incorporates a built-in audio speaker and amplifier as well as a standard mounting thread. The 8.6-in. LCD video monitor, Model 9M-60U, incorporates a double-speed scanning system to produce a resolution of greater than 400 TV lines, an extremely fast pixel response time of 50 msec, and weighs less than 5 lb.

Optical Memory Disk Recorder (OMDR) software drivers for both Macintosh and PC environments were developed by Panasonic Communications and Systems Co., Two Panasonic Way, Secaucus, NJ 07094. The drivers are available for the company's LQ-4000, TQ-3031, TQ-3032, and TQ-3038 units. The drivers for the Macintosh enable users to control and manipulate the company's videodisc recorder for such applications as interactive presentations, frame-by-frame computer animation, desktop video, multimedia authoring, and broadcast applications. Through the drivers, the end user can communicate to the OMDR by pasting a driver into the application file. The drivers for the PC contain two executable programs that simplify end users' demands to integrate videodisc recorder technology into useful applications.

A magneto-optical disk drive system was debuted by Nikon Inc., 1300 Walt Whitman Rd., Melville, NY 11747-3064. The product features a 2200-kbyte/sec transfer rate on rewritable disk, 1500-rpm rotation speed, and SCSI interface. The disk controller's reading data transfer rate is 1.43 Mbytes/sec. The 12-in., double-sided disks feature a unique, double-layer, magnetic thin-film structure deposited on a reinforced glass substrate, providing increased writing sensitivity, reading efficiency, and service life of over ten years. Approximately 4 Gbytes of code or image data can be recorded on each disk, allowing data in any form to be stored in a compact and safe manner.

An optical, multitrack recorder/editor was announced by A/Z Associates, P.O. Box 357, Needham, MA 02192. The Augan 408 OMX is a digital audio workstation that features removable, rewritable magneto-optical disks for both audio and session information storage. A standalone design with separate control/edit panel and track-sheet display, the unit contains



A/Z Associates Augan 408 OMX

everything needed for recording, library-ing, editing, playing, sequencing, syncing as master or slave, and controlling external recorders, plus routing, mixing, and envelope control, through either analog or digital ports. The product is both multitrack tape recorder and multipurpose editor. In post-production, its areas of application include telecine, audio-for-video/film, dialogue replacement, music production, effects, and jingles.

A multistandard digital decoder was unveiled by Vistek Americas, 1898 Embarcadero Rd., Palo Alto, CA 94303. The V4229 digital PAL/NTSC decoder permits the interface of D-2/D-3 (parallel or serial), or analog composite to component analog, all in a single unit. The product, which offers extremely high spatial resolution, is one of the first decoders with both serial and parallel D-2/D-3 as inputs. The decoder uses a combined vertical and temporal comb filter to separate the chrominance components with complementary filtering of the luminance signals. Signals within the vertical interval are not filtered and appear at the luminance output.



Pinnacle Systems Flashfile

Flashfile, a fully featured still store, substantially faster than competitive systems, has been launched by Pinnacle Systems, 2380 Walsh Ave., Santa Clara, CA 95051. The unit offers instant access of up to 12 images in 1/60th of a second, plus random access to as many as 10,000 images in as fast as 1/2 a second. The product comes standard with a sophisticated library management system for quick and efficient pictorial sort and search. The pictorial search feature, called Flashpix, lets the

user preview and browse while viewing the actual image on the menu monitor.

The company also announced that **some enhancements have been made to its product line.** A compact control panel and computer processor unit for broadcast vans and small studios, as well as a software upgrade and optional CCIR digital I/O option are now available with the Prizm Video Workstation; a disk featuring all new, one-of-a-kind animation sequences ready for live video mapping and a component A/B pixel switcher are now offered with the DVEator, a digital video effects animator; and a software upgrade offering improved animation, 3-D modeling, rendering, lighting, and mapping performance has been added to the DVEator Creation Kit.



Nova Systems time base corrector

The NovaBlox™ video processing system, available from Nova Systems, Inc., 50 Albany Tpke., Canton, CT 06019, is comprised of individual function modules called NovaCards that are designed on PC-compatible circuit boards. These modular cards act as bridges between the various components of a video and audio system. The product's applications include production, post-production, EFP, satellite, microwave, and computer graphics. The initial range of modules include time base correctors, frame synchronizers, encoders, decoders, and distribution amplifiers. The processing system allows maximum flexibility when configuring the various modules required for an integrated video system. The system utilizes RS-232 serial data for control of each module via a choice of a remote-control module or a computer.

In related news, the company unveiled the **NovaMate™ composite and Y/C time base corrector/frame synchronizer.** The product is one of the new function modules in the NovaBlox system. It satisfies a wide range of VCR signal correction and video interface requirements, from desktop video and post-production suites to commercial insertion and satellite news. The unit plugs directly into a PC or Amiga computer and operates via software control. It is also available as a desktop TBC or in rack-mountable dual and multichannel chassis.

Several new products were released from Digital F/X, Inc., 755 Ravendale Dr.,

Mountain View, CA 94043. **Composium Version 4.0** increases the editing capabilities of the company's digital editing suite. Features include Pan FX, which adds a second layer of motion, and Paint F/X DL⁺, which adds machine control of four machines, providing the ability to composite multilayered live action sequences using digital compositing techniques right in the graphic suite.

TitleMan is a postscript title generator that feeds postscript fonts and graphics into the edit suite with extraordinary quality. For the first time, over 10,000 postscript fonts will be available for creating titles in video. Clients can bring a disk full of Macintosh-generated titles and graphics into a post facility, and the product will quickly convert them to full color, antialiased RGB video. The product also renders and antialiases files from popular graphics applications on the Macintosh. Additional features include component grab frame, paint tools for custom matte creation, and genlock.

Video F/X Plus adds powerful editing and graphics features that make it a cost-effective post-production solution. Features include a control panel with jog/shuttle knob, MIDI support, edit list support to CMX, GVG, and Sony lists, and support for the Sony laserdisk.

AnimaxTM, a V-LAN-compatible animation control solution, was launched by Videomedia Inc., 175 Lewis Rd., San Jose, CA 95111. The product is a software and hardware combination that makes professional-level animation control on the PC desktop accessible and affordable. The product provides frame-accurate control for a single serial remote video device using SMPTE or EBU time code. The unit includes a single ISA slot card that plugs into any available slot in an IBM-compatible or Amiga computer and software downloadable device drivers for all video devices on the V-LAN network. The product will operate as an animation controller from within any graphics or animation software that includes a V-LAN driver.

I-VASTM, a video animation controller specifically designed for the IRIS IndigoTM high-performance workstation, was unveiled by Lyon Lamb Video Animation Systems, Inc., 4531 Empire Ave., Burbank, CA 91505. The product is a plug-in circuit board that performs single frame recording and frame grabbing operations from the Indigo to standard videotape recorders. The supplied user-friendly, graphical user interface allows operators to control all recording, grabbing, search, and recorder functions directly from the computer. Absolute field accuracy is assured by the use of the company's proprietary vertical interval frame code (VIFC). Additionally, SMPTE time code

is used interchangeably with VIFC for VTRs with time code output available. The product interfaces automatically to a wide range of VTR formats in both NTSC and PAL standards. All supported recorder interfaces reside in the unit's software so that the user may select or change recorders at any time with no hardware modification.

Video Machine is an add-on board for PCs and Macintosh computers that turns the units into desktop video studios. The product, which is available from Fast Electronic U.S., Inc., 5 Commonwealth Rd., Natick, MA 01760, allows users not only to cut and mix live videos, but to simultaneously use many presentation, graphic, and animation programs to edit their videos. As in a professional studio, several live video sources can be edited, enhanced with special effects and animation, and mixed with sophisticated graphics and titles. The unit, which accommodates all standards, requires no additional hardware, such as time base correctors and editing decks. It includes an extensive effects library of over 100 digital video effects, such as slides, panning, scrolling, and strobe.

The company also announced the first-ever **DVI board for laptops**. The product, developed in conjunction with Toshiba, utilizes Intel's newest video technology, the I750@ B Series chipset. With the product, live video can be played from CD-ROM or hard disk and displayed in excellent quality on color LCD screens. The board holds a special synchronization circuitry and a digital color look-up table that converts the VGA index values into RGB values.

Two products were introduced by Accom, Inc., 1490 O'Brien Dr., Menlo Park, CA 94025. The **ADC analog-to-digital converter** is a bridge from analog component formats to CCIR 601, parallel and serial formats; and the **DAC digital-to-analog converter** is a bridge from CCIR 601, parallel and serial formats. Both units are high-quality, 10-bit converters that automatically switch between 525 and 625-line standards, and offer remote control through an RS-422 serial digital port.

A **touch screen controller** was announced by A. F. Associates, Inc., 100 Stonehurst Ct., Northvale, NJ 07647-2487. The Radamec EPO See and Select utilizes actual frozen video images instead of alphanumeric text for easier, more efficient shot recall. The system, which can display a total of 16 shots, allows the operator to recall the prestored shots and select the relevant box on the monitor via a mouse, light pen, or touch, depending on the hardware employed. When the choice is made, all camera parameters and posi-

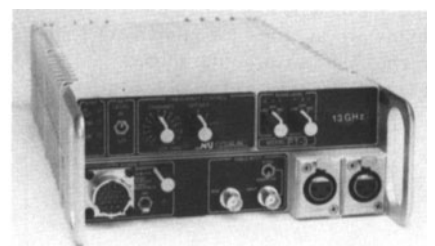
tions are recalled to the prestored shot position. Paging of the displayed shots — which are frozen and reduced to 1/16 of their original size — allows more than 16 shots to be displayed for each camera and a separate page enables a storyboard to be constructed and immediately used.

Several products were released by Tektronix Corp., Howard Vollum Industrial Park, P.O. Box 500, Beaverton, OR 97077-0001. With the addition of the **2600DA digital measurement adapter** to the company's family of signal analyzers, engineers can now achieve complete performance verification on sophisticated, low-frequency designs that incorporate DSP chips. The product provides digital measurement and digital waveform generation capabilities. The unit includes two input measurement channels with 16-bit resolution and one waveform-generation output channel with 12-bit resolution. The adapter has a maximum continuous data rate of 512 Ksamples/sec, and can handle burst rates up to 10 Msamples/sec.

A **trigger capability** for the TDS 400 Series oscilloscopes allows triggering on selected fields and lines of NTSC, PAL, and nonstandard signals (with up to 75-kHz line rate). The initial TDS 400 Series offering consists of two products: TDS 420 with 150-MHz bandwidth and TDS 460 with 350-MHz bandwidth. Both products are 4-channel instruments equipped with four high-performance 100 Msamples/sec analog-to-digital converters and selectable record length (up to 30 kbytes/channel).

The **J17 LumaColor** is a handheld test instrument that operates as a photometer or colorimeter. The modular design of the product accommodates plug-in heads, each of which delivers a set of light measurement functions critical in the manufacture and calibration of displays such as CRTs. Two heads for the product are available: J1803 luminance head measures luminance in cd/m² or footlamberts where light scattered or emitted by a surface must be measured and the J1820 chromaticity head, which provides color measurements in the 1931 CIE and 1976 CIE-UCS coordinate systems.

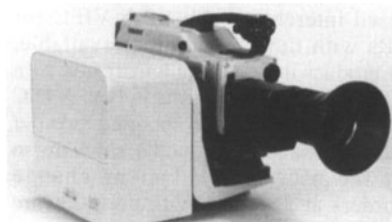
The **130PT3 Series 13-GHz portable ENG transmitter** was launched by Nucomm, Inc., 101 Bilby Rd., Bldg. 2,



Nucomm 13-GHz portable ENG transmitter

Hackettstown, NJ 07840. The unit offers 88 fully synthesized RF channels; 2 synthesized, field-programmable audio subcarriers; and 1-W minimum output power. The product, which is lightweight and small in size, can be configured to incorporate a wide variety of options, including a genlockable RS-170A SMPTE color bar generator and programmable 16-character alphanumeric ID generator, a video-activated remote on/standby control to allow the transmitter to operate in remote standby with no video present and in full operation by applying a small video signal, and fiber-optic camera-to-transmitter interconnect to allow lightwave signals to switch the transmitter from standby mode to on mode. Other features include PAL or NTSC compatibility, quick-connect antenna mount, and switch-selectable 6-dB output power reduction.

The company also announced the **65/70PT3 Series 6.4 to 7.1-GHz portable ENG transmitter**. The unit offers 42 fully synthesized RF channels; 2 synthesized, field-programmable audio subcarriers; and 2-W minimum output power. The product is small in size, lightweight, has low power consumption, and is configurable to serve any portable environment from tripods and backpacks to helicopters and ENG trucks.

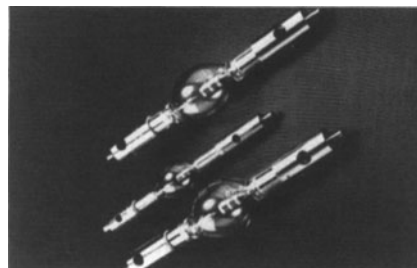


Fujinon EPT-10 pan-and-tilt head

The **EPT-10 pan-and-tilt head** from Fujinon Inc., 10 High Point Dr., Wayne, NJ 07470, is designed for teleconferencing applications. The product, which weighs less than 18 lb and can handle 22-lb loads, can pan 300° and tilt 95°, operating at speeds of 9°/sec. The unit is supported by three versatile controllers: the EOP-20, which has a joystick control of pan and tilt, a thumb rocker control of zoom, and continuous iris adjustment via a potentiometer; the EOP-30B, which provides joystick controls, and potentiometer control of iris; and the EOP-50A, which will control up to 4 heads and provides 24 preset shots for each head.

An electrical power distribution system for motion-picture and television studios has been developed by Mole-Richardson

Co., 937 N. Sycamore Ave., Hollywood, CA 90038. The system is for use on stages and locations or any portable use. The product is available in 3-phase 600-A distribution box and 400-A distribution box; single-phase, 400-A 4-wire in and out; and single-phase 400-A wall-mount box. All boxes have circuit breaker protected outlets.



Optical Radiation Corp. xenon short arc lamps

The **Ultralife™ Series** of xenon short arc lamps for cinema, industrial, and entertainment markets was announced by Optical Radiation Corp., 1300 Optical Dr., Azusa, CA 91702. Available from 150 W to 10,000 W, the products are suited for all applications requiring intense white light, including spotlights, searchlights, film projection, and a variety of medical and industrial implementation.



SMPTE Test Films

SMPTE has a full line of test materials for television and motion pictures, including monochrome TV test patterns, color TV subjective reference films and slides, photographic sound test films, magnetic sound test films, and a complete range of projector performance films. Most TV films are available in 35mm, 16mm, and 2 X 2-inch transparencies. The sound films are available in 35mm and 16mm (the magnetic sound films are also available in super 8), and the projector performance films are available in 35mm, 16mm, super 8 and regular 8, depending upon the film type. Films are in stock for immediate shipment. All films are guaranteed.

For your free catalog, write to:

**SMPTE Test Film Dept.
595 W. Hartsdale, Ave.
White Plains, NY 10607**

Classified

Employment Service

These notices are published for the service of the membership and the field. They are inserted for three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Available

Chief Engineering Manager. Strong technical skills and supervisory ability needed. Rank experience a plus. Excellent benefits and salary package. Send resume to Diner + Allied, 620 Third St., San Francisco, CA 94107, Attn: Division Manager. EOE.

Positions Wanted

Electronics/Optical Engineer. Hands-on technician as well as design engineer seeks entertainment-related technical work on permanent or project basis. Special effects, film, video, lighting, audio, etc. Hardware and software design. Analog, digital, microprocessor-controlled, optical and electro-optical systems. Field repair/mod./installation experience. M.S. Physics/Optics, M.E.E. Contact Roger De

Pietro, 68 Monroe St. #2B, Hoboken, NJ 07030. (201) 795-3616.

Lighting Director/Cameraman. Fifteen years of video production experience in both broadcast and nonbroadcast. Skilled lighting director, cameraman, tape operator, master control, also producing and directing. Seeks position with broadcast station in Dallas/Ft. Worth market. Contact C. P. Neal, 4105 Periwinkle Dr., Ft. Worth TX 76137. (817) 848-0238.

Journals Available/Wanted

These notices are published as a service for members to expedite disposal and acquisition of out-of-print Journals. Please write directly to the persons and addresses listed.

Available. SMPTE Journals 1972-1983 (1978-1983 in binders). Contact Douglas Worling, 74 Wellington St. East, Aurora, Ont., Canada L4G 1H8. (416) 727-3216.

Available. SMPTE Journals 1969-1991. Good condition. Contact Stan Oehman, 7239 E. Sheridan St., Scottsdale, AZ 85257. (602) 947-4959.