

# New Products & Developments

Further information about these items can be obtained from the addresses given. As in the case of 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 Eastman sound recording II film 5373/7373** for variable-area photographic soundtracks, a new sound negative film that makes it possible to produce motion-picture soundtracks with improved sound quality, has been introduced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The new film also offers broader latitude for laboratory personnel.

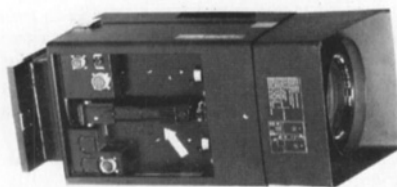
Also announced was the availability of Eastman color internegative II film 5272/7272. The new film differs from the 5271/7271 film in that it is compatible with process ECN-2 rather than process ECP.



**The KCA 100**, a lightweight broadcast color television camera for shoulder or tripod operation, has been announced by Robert Bosch GmbH, Geschäftsbereich Fernschanlagen, Robert-Bosch Str. 7, 6100 Darmstadt, W. Germany. The camera head, weighing 5.5 kg consists of a fold down front section containing the optical block, a middle section for signal processing PCBs (printed circuit boards), and various optional add-on rear units. By exchanging the add-on units which plug into the back of the basic camera, the KCA 100 can be adapted to operate in the ENG mode or can be remote controlled from a base station via multiwire or optical fiber cable. At the base station, two plug-in modules are exchanged according to the type of cable in use. Two additional camera add-on units provide a head mounted battery for ENG operation or for direct camera head genlocking.

The use of laser transceivers at the base station and camera head, together with optical fiber cable, enables the camera to be remote controlled from miles away with a cable

weight saving of approximately 30:1 when compared with conventional methods. The twin fiber optical cable can be hung between buildings, driven over with heavy vehicles, and left permanently exposed. In addition it is insensitive to any kind of electromagnetic field and does not radiate. Prices for the KCA 100 begin at about \$49,000. The price includes tubes, lens, and ENG kit.



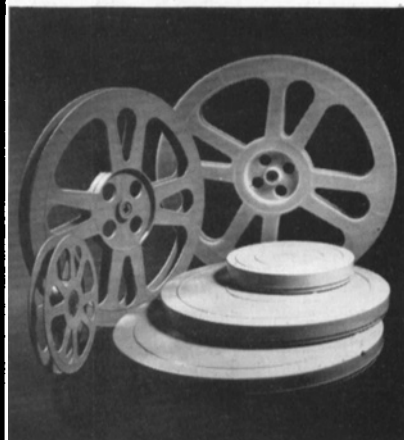
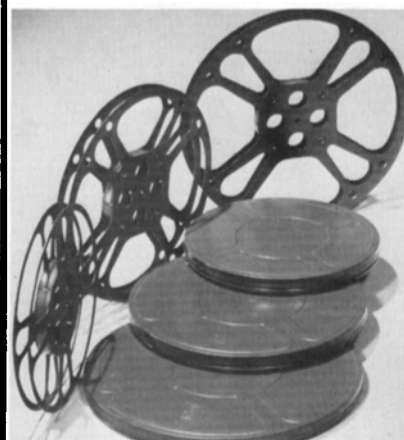
**An ultra high resolution lens**, incorporating a built-in test pattern has been announced by Fujinon Optical Inc., 672 White Plains Rd., Scarsdale, NY 10583. Capable of resolving 1300 TV lines, the 14x zoom is said to produce greater sharpness and detail than has been previously possible. Based on a new optical system, the new lens is said to deliver precise color convergence at all focal lengths. Maximum aperture can be maintained in all ranges of zoom and focus. Two models are available, the 14 x 12.5 f/1.6 for a 1-in format, and 14 x 16.5 for a 1 1/4-in format.

The test pattern generator permits faster and more accurate camera setup, especially on computerized cameras, and allows precise matching of lens and camera in all three channels for true color balance regardless of studio or ambient lighting conditions. Prices begin at \$26,880. A test pattern projector which requires no modification of the lens structure is available as an option.



**A new line of low light level auto iris lenses, L3TVAI**, has been announced by Lenzar Optics Corp., Television Products Group, 1006 W. 15 St., Riviera Beach, FL 33404. The lenses intended for low light level television

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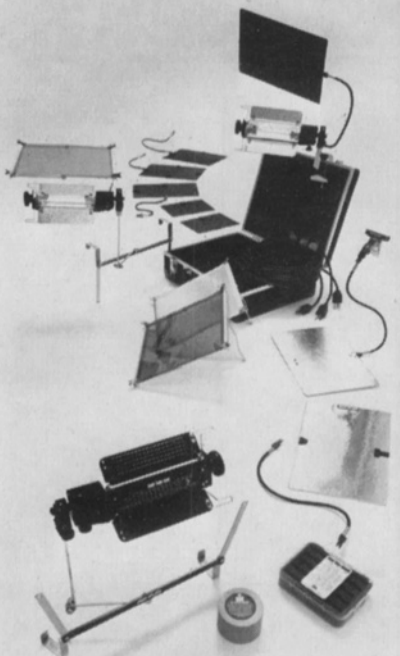
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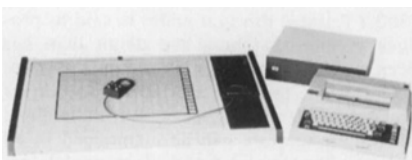
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applications use a combination of ball bearings and a hollow core motor to provide for efficiency and speed of response. Prices range from \$450 through \$575.



A rigid fiber optic lens, Model FO 38611, for concealed television or film camera surveillance through a wall, has been announced by Visual Methods, Inc., 35 Charles St., Westwood, NJ 07675. The lens has an 11.5-mm focal length with a 50° field of view. It requires only a 1/2-in diameter hole drilled into a wall for installations. Use of fiber optics give the lens a relatively fast aperture of  $f/3.5$  and a high degree of resolution. The lens is "C" mounted and is designed for 2/3-in format closed circuit television and film cameras. The rigid fiber optic tip has a 7/16-in diameter and is available in 6-, 8-, or 12-in lengths. The rear section is 3 1/2-in long with a "C" mount. Since the tip is rigid, it is easily pushed through a hole made in solid material. Surveillance applications include jail cells, psychiatric observation rooms, industrial areas with space limitations, or heated, explosive, or corrosive environments.



A graphics compose system for the Compositor I<sup>®</sup> has been announced by TeleMation, Division of Bell & Howell, P.O. Box 15068, Salt Lake City, UT 84115. The graphics compose option which can be added to any compositor dual disk system now in use permits on-site creation of custom fonts, logos, and graphics.

The option consists of a digitizer tablet, a handheld cursor, a keyboard/printer, and a special operating program. To build a custom character, the operator places the artwork on the digitizer tablet and traces the character's outline with the cursor, entering a series of  $x-y$  points into the computer. The computer is then instructed to build the graphic to an exact height — up to full screen — which can be called for display on-air. Since the memory also retains the original list for  $x-y$  points, the character can later be built to any different size without re-entering the character artwork.

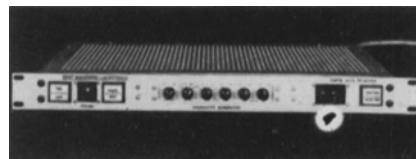
Because it is completely digital, the composing system is not subject to the signal noise and geometric distortion sometimes encountered by camera-based systems. Almost any drawn or printed artwork can be used, regardless of contrast range, extraneous background elements, or reflective properties of the surface. The precise nature of the system (the digitizer tablet, for example, can resolve up to 1000 points an inch) permits the computer to build animation sequences wherein a character can be made to zoom; bounce; move left, right, up, down, or diagonally; or rotate on three axes. Animated characters can also be colorized and edged as required. Prices for the Compositor I dual CG dual disk graphics

compose system range from \$81,500 to \$83,200.



The TBC-117 SMPTE Edit Code time base corrector has been announced by Gray Engineering Laboratories, 504 W. Chapman Ave., Orange, CA 92668. The new TBC receives the edit code from any VTR into a wide-band bi-phase mark decoder capable of extracting time information at rates of 1/50 to 100 times normal speed. This time information, in binary form, is sampled in eight 8-bit bytes by microprocessor circuitry to update the time portion, if desired, and stores all of this information in register files. This information is re-transmitted through a narrow band modulator to create the new bi-phase mark code. The outgoing code rate is normal time (2400 bits/s) regardless of the time and user bit changes. The actual incoming code is sampled at the start of each outgoing code word and transmitted in that word.

Composite sync (or video) is used to transmit the outgoing code. The incoming code is bridged across any VTR cue channel output. Two separate 6-line serial computer interface connections are provided — wide-band interface from the incoming decoder and narrow-band interface of the outgoing code. This method of time and control time base correction can be placed at the output of any VTR to produce regenerated code at real time for transmitting at long distances through normal audio lines. The TBC-117 is priced at \$3495.



The DR-120 SMPTE code receiver, character generator, video source identifier, and demultiplexer, an instrument designed to read and insert SMPTE time or user-bit characters into a video channel for display on a monitor, has been announced by Gray Engineering Laboratories, 504 W. Chapman Ave., Orange, CA 92668. Hexadecimal two-digit characters can be additionally displayed on the monitor for use as video source identification. Demultiplex circuitry is provided to allow monitor display or external multiplexed user bits. The equipment can demultiplex, in forward or reverse, 320 separate user bits of the SMPTE edit code every ten frames. A panel thumbwheel switch selects the multiplexed frame number to be displayed. All controls are on the front panel. In addition, there are internal selectors for dropframe status on the monitor, choice of monitor update change, and free running time in the absence of code. Character heights may be varied from 8 to 64 lines in four increments and the widths may be adjusted to the preferred aspect ratio. The DR-120 is priced at \$2995.

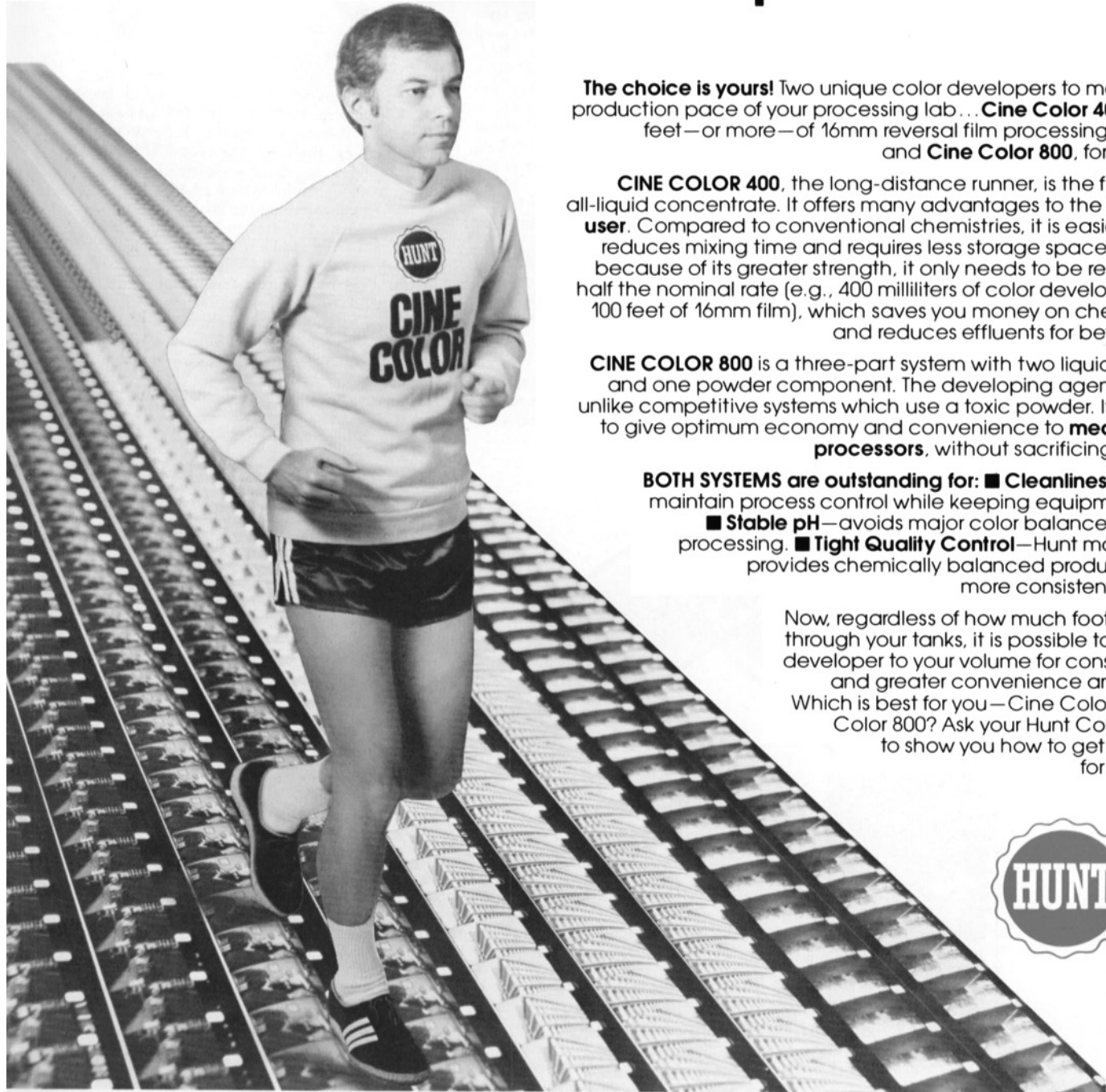
A new vertical interval reference signal (VIRS) generator manufactured by D-Lab has been announced by Television Equipment Assoc., Box 260, S. Salem, NY 10590. The device can be installed at the program source

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to provide an accurate reference of luminance and chrominance level and chrominance phase. When the output of the VIRS generator is bridged across the composite program line, the reference signal is automatically added to line 19 or 20 in either or both fields. The one-line reference signal comprises a 3-level stepped luminance signal with 70, 50, and 10 percent picture levels. Following program recording or transmission, the video level, setup, chroma gain, and chroma phase can be adjusted manually or automatically by introducing corrections that restore the VIRS signal to the original form. An automatic line sampler disables the generation of local VIRS if another signal is already present on that line of the program. Front panel status lamps indicate the presence of program video, subcarrier lock, external or local VIRS, and power. Prices range from \$960 to \$1200.

**An accessory module,** The Sync Source 1301 accessory CCTV sync generator, packaged for incorporation into various Vii<sup>®</sup> test pattern generators as an internal sync source, has been announced by Visual Information Institute, Inc., Box 33, Xenia, OH 45385. The device is useable at any scan rate from 525 to 1225 at a 60-Hz field rate or 625 at a 50-Hz field rate. *H* drive, *V* drive, blanking, and sync output signals are routed out of the in-

strument for use elsewhere. Sync Source 1301 takes power from the parent unit. The price is \$750.



**A 14-bit multiplying digital-to-analog converter, Model DAC9331-14,** was announced by Hybrid Systems Corp., Crosby Dr., Bedford, MA 01730. It utilizes dynamic laser trimming to assure maximum accuracy and excellent temperature tracking of its precision, thin-film ladder network and internal feedback resistor. Encased in a 24-pin double dip, it maintains  $\pm 0.003\%$  linearity over the specified 0–70°C range.

The unit operates from a single +5-V or +15-V supply and consumes a maximum of 30 mW. Reference input range is  $\pm 25$  V; digital input coding is binary or offset binary for 2- or 4-quadrant multiplying operation, respectively. DAC9331-14 is compatible with both TTL/DTL and CMOS logic. It is priced at \$39.

**Telecine operation programming system (TOPSY),** a preprogramming facility allowing color correction, auto cuing of telecine



film transport, picture enhancement, audio level control, and pan scan of anamorphic prints, was announced as an accessory to the Mark III telecine by Rank Cintel Div. of Rank Precision Industries, Watton Rd., Ware, Hertfordshire, England. The system is available in three stages of sophistication. The basic communications system enables "ingle-wire" remote control of the Mark III telecine. To this, Mode I boards may be added that allow up to 888 events to be programmed to control only the telecine transport.

Further boards may be employed to extend the system to Mode II operation. Microprocessor control is used, enabling the system to store up to 888 events in a volatile memory. If a permanent record is required, the completed information is transferred onto a mini-floppy disk which may be replayed into the programmer at a later date. The price of the TOPSY is approximately \$30,000.

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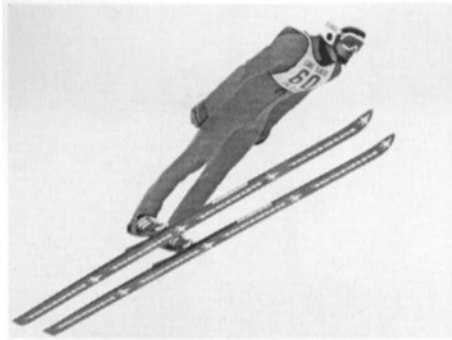
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**Ampligard headset,** facilitating communications for high ambient noise productions, was announced by Television Equipment Assoc., Inc., Box 260, S. Salem, NY 10590. The headset (shown above) provides 45-dB ambient noise attenuation, making it possible to communicate in an ambient field of 120 dB. From a safety and hearing protection point of view, the headset protects the user from the deleterious effects of high ambient noise. The price is \$398.

Also announced were Astrolite headsets for television intercom applications. The headset offers interchangeable cushions: ear-enveloping foam cushions, which provide attenuation of ambient noise, or ventilated foam cushions which eliminate ear perspiration, accommodate eyeglass frames, and permit the user to hear ambient sound. The price is \$115.



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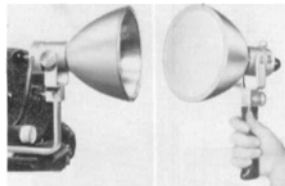
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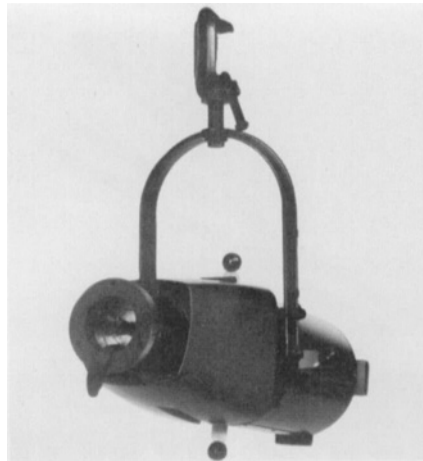
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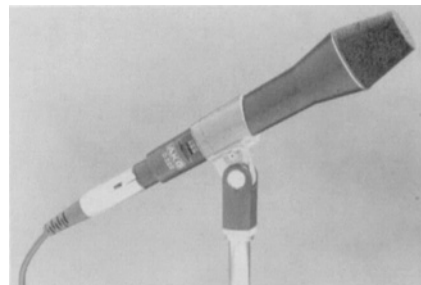
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**Step-Up Kits** that allow owners of 6-in Lekolite® spotlights to upgrade their instruments have been announced by Strand Century, Inc., 20 Bushes Lane, Elmwood Park, NJ 07407. The kits include new axial lamp-housing assemblies, reflector-housing assemblies, and the required tools. One kit (#2750) can convert existing units for 500- or 750-W axial lamps. Two kits (#2000 and #2016) can upgrade existing 500- or 750-W Lekolites to 1000 W. Users can retrofit the units to take advantage of Strand Century's developments in design and construction, including a new optical system, die cast housings, and axially mounted lamps. The new construction features phenolic knobs on the shutter handles and rear housing to provide easy adjustment even at operating temperature. Two phenolic handles control lamp centering, and they adjust the field for peak or flat light distribution.

The kits designed for upgrading to 1000 W also include a new center body with shutters and template slot and a new lens sleeve. Four heavy gauge stainless steel frame shutters are in separate planes to prevent butting or jamming. They are designed to take the heat of 1000-W lamps without distortion. The 2750 kit

is priced at \$85 and the 1000-W kits are priced at \$98.



The **AKG two-way cardioid dynamic D-222EB microphone** has been designed by AKG Akustische und Kino-Geräte GmbH of Vienna, Austria. The microphone is distributed in the U.S. by AKG Acoustics, 91 McKee Dr., Mahwah, NJ 07430. This microphone is a double-system device, and has two coaxially mounted dynamic transducers. One transducer, closest to the front grille, performs optimally at high frequencies. The second transducer, designed for low frequencies, is coupled to the first transducer through a 500-Hz crossover network in essentially the same way as a loudspeaker tweeter-crossover-woofer arrangement. The microphone is said to provide a smooth and wide-range on-axis frequency response resembling that of a condenser microphone at frequencies up to 14 kHz. It produces a more linear frequency response at the sides of the microphone with constant discrimination at the rear of the microphone. It displays an absence of proximity effect at working distances down to 6 in together with low harmonic distortion at high sound pressure levels. A built-in 3-position switch provides an additional 6-dB or 12-dB attenuation at 50 Hz.

The D-222EB has a frequency range of 20 through 16,000 Hz. Nominal impedance is 200 Ω. Sensitivity is -55.5 dBm. It weighs 9 oz without cable. The price is about \$195.

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