

New Products & Developments

Further information about these items can be obtained direct 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.

Erratum: August 1976 *Journal*, p. 702, col. 2, 2nd. item, "The Frezzolini Battery Sequencer . . ." Price of the Battery Sequencer was given as \$19.95. The price is actually \$1995.

A new series of fixed focal length Super Speed Distagon lenses for Arri 16mm cameras has been announced by Arriflex Co. of America, P.O. Box 1102, Woodside, NY 11377. The new lenses are intended specifically for motion-picture photography. They incorporate advanced optical engineering techniques such as floating elements coupled to the focusing group to maintain image flatness and multicoating on all air to glass surfaces to reduce flare. They offer extremely close focusing even at maximum aperture (i.e.

8 in for the 12mm lens at $T/1.3$). They are capable of producing optimum quality images at the widest apertures for superior results in low light as well as normal light levels.

The lenses are rated at a fast $T/1.3$ and include three focal lengths, 12, 16 and 25mm. They provide optimum performance at large apertures and at low light levels and, in addition, produce superior pictures at all typical f /stops and under the widest range of lighting conditions. The lenses in the new series are designed specifically for the 16mm format. They can be used on all Arriflex 16SR, 16S/B-16M/B and 16BL cameras. In the case of the 16BL when noise levels are critical, the lenses must be used with the Universal Lens Housing for the 16BL together with a new adapter ring set. Prices for the new lenses range from \$1490 to \$1775.

New Telezoom Extenders for both the CP-16R and the BNC-R have been announced by Birns & Sawyer, Inc., 1026 North Highland Ave., Los Angeles, CA 90038. Designed to double the focal length of lenses for the cameras, the new



extenders slip on and off quickly for fast use. They are reported to have excellent optical resolution and color correction. The Telezoom for the CP-16R converts the 12-120mm Angenieux zoom to 24-240mm and the 9.5-95mm to 19-190mm.

The Telezoom Extender for the BNC-R (shown above) has corner-to-corner coverage and fits both spinning mirror and pellicular Mitchell cameras as well as Mitchell and Arri Hard-Fronts. The extender converts the Angenieux 25-250mm to 50-500mm and 20-120mm to 40-240mm and doubles the focal length of the prime lenses.

Price of the extender for the CP-16R is \$199.50. Price of the BNC-R 2X Extender is \$795.

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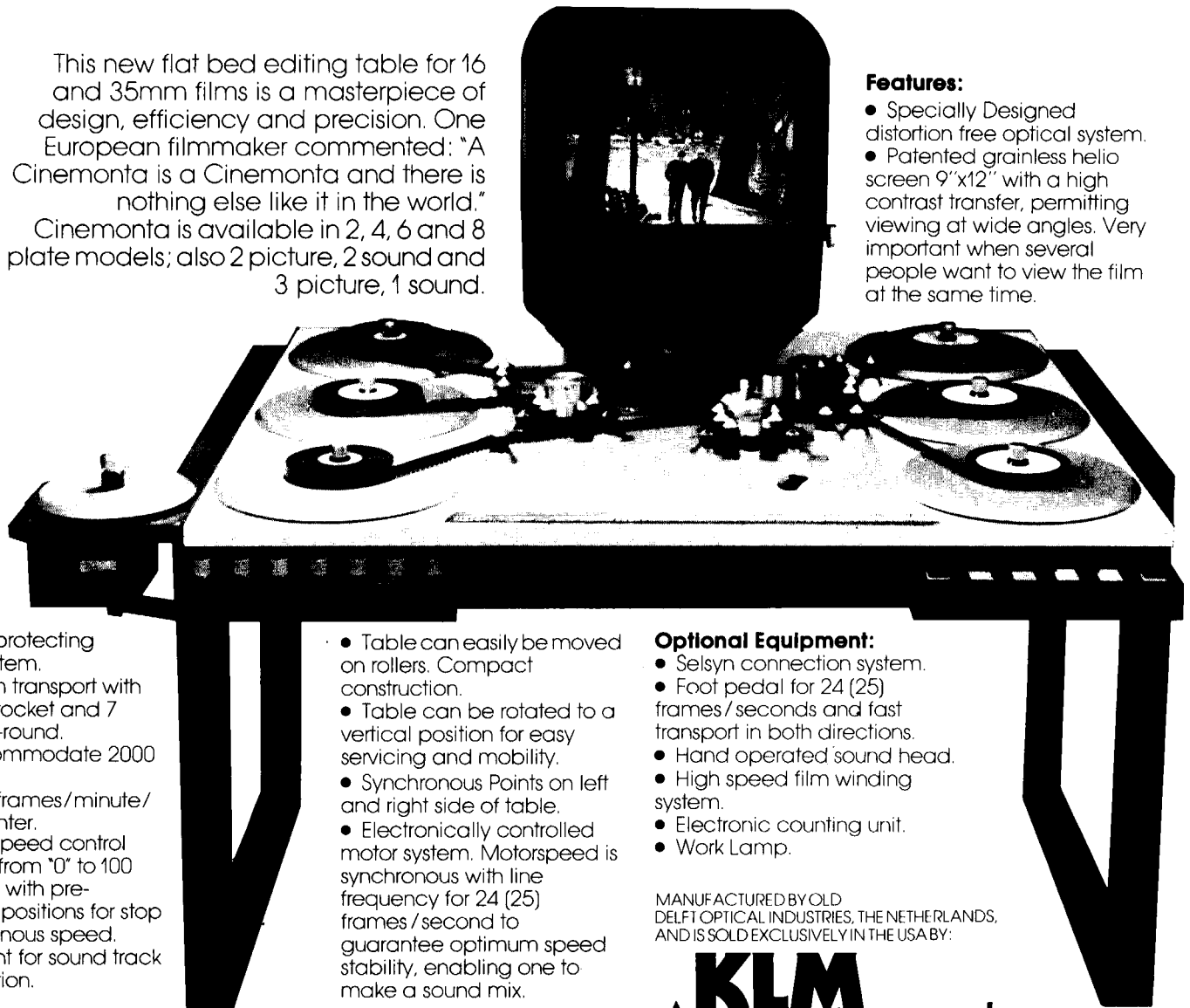
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This new flat bed editing table for 16 and 35mm films is a masterpiece of design, efficiency and precision. One European filmmaker commented: "A Cinemonta is a Cinemonta and there is nothing else like it in the world."
Cinemonta is available in 2, 4, 6 and 8 plate models; also 2 picture, 2 sound and 3 picture, 1 sound.

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- New film protecting transport system.
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- Table can easily be moved on rollers. Compact construction.
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- Work Lamp.

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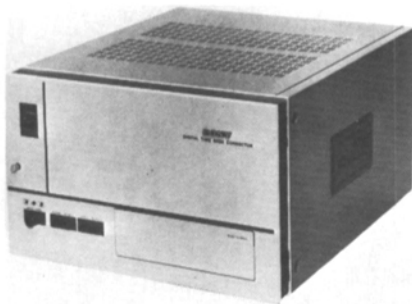
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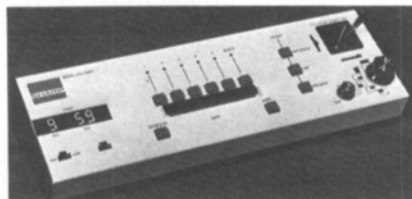
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The BVT-1000 Digital Time Base Corrector has been announced by Sony Broadcast, 9 W. 57 St., New York, NY 10019. The unit employs a newly developed A/D system and is designed for both high band and helical videotape recorders. It is sold in a no-options configuration and includes velocity and dropout compensators, full processing and full NTSC advanced sync. It combines a wide window of plus or minus two horizontal lines (± 2 H) with a moving window concept to help hold picture lock, even with wide error excursions. The BVT-1000 can handle both direct and processed heterodyne modes. It includes anti-gyro circuitry. The price is \$16,000.



A special effects generator, the XEG-2000 together with a compact, movable desktop console has been announced by Sharp Electronics Corp., 10 Keystone Pl., Paramus, NJ 07652. The unit can also be rack-mounted. Measuring $5\frac{3}{4}$ in deep, $3\frac{3}{4}$ in high and $15\frac{3}{4}$ in long, the console comes with a 19-in long rack mount electronics package and 50 ft of interconnecting cable with molded end connectors. Additional cable is optional. Key feature of the console is simplicity of design, the announcement stated. Other features include the use of one LED per input camera (six). A flashing light indicates the camera is on preview, a steady light on take. A common take bar replaces a second row of camera buttons. Another mode allows direct takes on the program line. Electronic fading and wipe buttons replace the conventional mechanical fader bar. It has an on/off key switch and the standard six special effects (four corners, horizontal and vertical) and a 10-min digital timer. The price is about \$2000.

A rack-mount RS-170 color sync generator with a built-in phase shifter that can accommodate three cameras and a black background generator has been announced by Sharp Electronics Corp., 10 Keystone Pl., Paramus, NJ 07652. Designated the XSG-170, the configuration is completely modular allowing the user to add accessories including a color bar generator, phase module for two additional cameras and an audio test oscillator. Price of the XSG-170 is about \$775.

A new video distribution amplifier, designated Model 120, has been announced by Di-Tech Inc., 315 Wyandanch Ave., North Babylon, NY 11704. Features include differential input, switchable back porch clamper, strapable fast/

slow clamping action and optional plug-in 10 dB cable slope equalizer. A one-input, six-output device, Model 120 can be used in various communication environments including the output from microwave receivers, video cable runs up to 1000 ft of 75 Ω cable (equalization may vary depending on cable type) and ground potential differences from location to location. The slope equalizer is adjustable. It is available in two configurations, 10 dB at 5 MHz or 10 dB at 10 MHz. The price of Model 120 is \$295 including the equalizer.



A portable SMPTE Time-Code Generator, the PG-3051, has been announced by CMX Systems, Inc., 3303 Scott Blvd., Santa Clara, CA 95050. Built to provide the SMPTE time code wherever it is needed, its small size ($8 \times 1\frac{3}{4} \times 8\frac{1}{2}$ in) and light weight (2 lb including battery) make it easy to carry. A self-contained, rechargeable battery can operate the instrument for 40 h continuously or it can be powered by its external battery charger. Front-panel-mounted controls allow presetting of the hours and minutes. A large (0.8 in) liquid crystal display shows hours, minutes and seconds. The SMPTE time code output from the generator contains information showing hours, minutes, seconds and frames; it is switchable between dropframe and non-dropframe.

Additional output of "data ones" and clocks from the CMX PG-3051 allows the use of a CMX TD-3035 Time-Code Display as a remote display. Composite sync or composite video must be fed to the generator or there will be no output.

Price of the PG-3051 is \$2850.



The Model 4200 SMPTE Edit Code Reader has been announced by BTX Corp., 438 Boston Post Rd., Weston, MA 02193. The new reader is dc-coupled and uses an automatically switched linear low-pass filter to permit the reader to operate accurately at tape speeds as low as 1.5 in/s for hand-scan work; in addition its 500 kHz bandwidth amplifier response is fast enough to read accurately at up to 80 times playing speed. Error detection circuitry produces only valid data as its output, holds the latest valid entry in memory and evaluates incoming signals in order to screen and reject any illegal codes and prevent erroneous search commands. The system is reported to be immune to amplitude variations (down to -18 dBm), read head misalignment, time stability jitter and random noise pickup. The price is \$2850.

The 950 MHz Diversity Wireless Microphone System featuring a wallet-sized 14-oz transmitter has been announced by Thomson-CSF

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Frezzolini Electronics Inc.



Laboratories, Inc., 37 Brownhouse Rd., Stamford, CT 06902. The system has been designed to assure that the amplified sound will provide high fidelity without fading, interference or channel crosstalk. Automatic diversity switching of two antenna systems for optimum signal selection provides for fade-free reception. Interference-free reception is provided for by operation in the relatively wide and unused 947-952 MHz frequency band. Channel crosstalk is virtually eliminated by a combination of high transmitter frequency stability and receiver selectivity. Transmitter output power of 50 mW permits the receiver to pick up a usable signal within a minimum 500-ft range. Accurate transmission and reception allow the simultaneous use of up to 15 channels. The wide dy-

amic power of the transmitter combines its soft level limiting circuit to retain the fidelity of any loud or soft sounds. Other features include a flat audio response from 50 Hz to 15 kHz and an SNR greater than 60 dB.

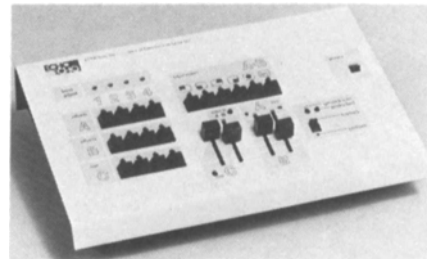
Three versions of the system are available. The RM-100 includes a 5-channel receiver with five transmitters. It is priced at \$12,950. The RM-102, a single-channel portable system is priced at \$2950. The RM-104 two-channel portable (shown above) provides the user with two full diversity receiving channels simultaneously usable in the field. It operates with only one set of two diversity receiving antennas. It can be powered by a set of internal size D dry cells for 8 to 10 h operation or from an external +12-V source for extended operation. The price is \$4950.

The Master Audio Meter, a dual-channel LED-bar display unit, has been announced by MicMix Audio Products, Inc., 9990 Monroe Dr., Suite 222, Dallas, TX 75220. The adjustable brightness display is selectable for either peak or rms values on smooth, flowing bars having a 55 dB display range in 1 dB increments from +5 to -7 and in 5 dB increments from -10 to -55. In the rms mode the display has the same rise and fall characteristics as a ballistic type VU meter (300 ms for 20 dB); timing in the peak mode is 130 ms to capture transients while providing a comfortable viewing display.

Each display channel can be switched either manually or by remote control to either one of two independent and externally adjustable reference levels, permitting exact matching to more than one recording device without recalibration

or guesswork. Peak mode reference levels are changed automatically from rms reference levels by 10 dB to permit full display range usage in either mode without readjustment. In the peak mode the device can capture and display to within ± 0.5 dB the peak level of a one-half cycle sine wave burst up to 15 kHz and out to 30 kHz with slightly greater tolerance.

For balanced or unbalanced applications, input impedance is 12 k Ω . An optional power supply is available capable of operating up to two of the Master Audio Meters. The bezel measures 1.5 x 5 in (38 x 127 mm) and the unit is about 5 in deep. Twenty-four integrated circuits are contained in the unit. The Master Audio Meter is priced at \$595. The optional power supply is priced at \$85.



A new, small, television-studio special-effects generator has been announced by ECHOlabs, Inc., 213 Middlesex Turnpike, Burlington, MA 01803. A compact, desk-top unit, it is available in both monochrome (SE/2) and color (SE/2C) versions. Integrated circuits are extensively used contributing to the unit's small size. Up to four composite or noncomposite inputs are provided

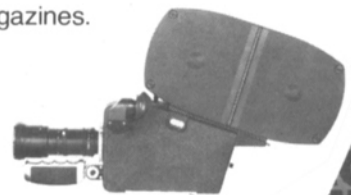
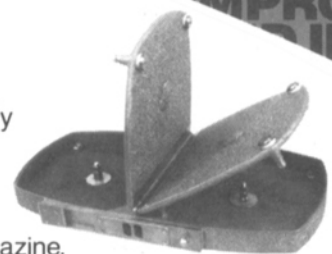
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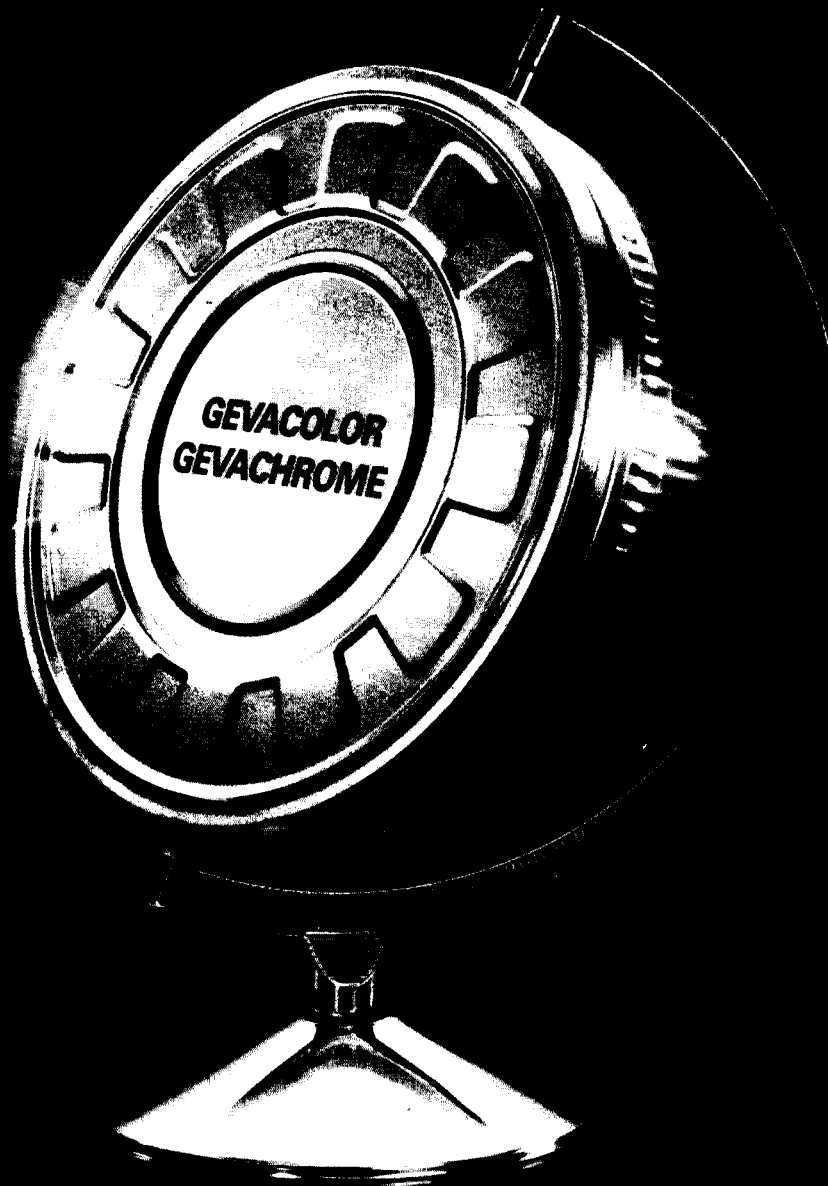
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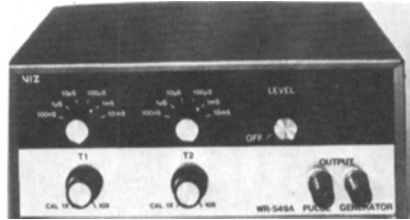
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as well as keying camera input. An internal RS-170 sync generator can genlock to helical scan VTRs or virtually any 2:1 or better source and has automatic or switched changeover to line-lock operation. Six effects are possible including corners, ellipse/circle wipe (nonpositionable or key). Tally light outputs and intercom connections are provided and front-panel level adjust controls can be used to balance camera brightness levels. All crosspoint switches are momentary and vertical interval. Four camera outputs and an effects preview are available; also four 4-V, 75Ω terminated sync pulses. Camera inputs are Sony 7-pin connectors with loop-through BNC. Available at no extra charge are Panasonic 10-pin connectors. Price of the SE/2 is \$995; the SE/2C is priced at \$1300.



The **WR549A pulse generator**, designed to provide an easy-to-use source of digital pulses continuously variable over a range of 5 Hz to 5 MHz, positive, negative or pos-neg square wave, has been announced by VIZ Test Instruments Group, VIZ Mfg. Co., 335 E. Price St., Philadelphia, PA 19144. The pulse width and repetition rate are independently adjustable. The

instrument operates within 5% (at the calibration points) of the dial settings over the 5 Hz to 5 MHz range. It maintains a pulse width of from 100 ns to 0.1 s over an unlimited duty cycle. The rise and fall time is less than 20 ns on all ranges, the announcement stated. The output is adjustable for both TTL and CMOS covering a range of 0 to 15 V peak-to-peak. Impedance is selectable at 50 or 600 Ω. The WR549A operates on 105 or 125 V ac, 60 Hz with 5 W power. It measures 8 × 5 × 3.5 in and weighs 1.5 lb. The price is about \$119.

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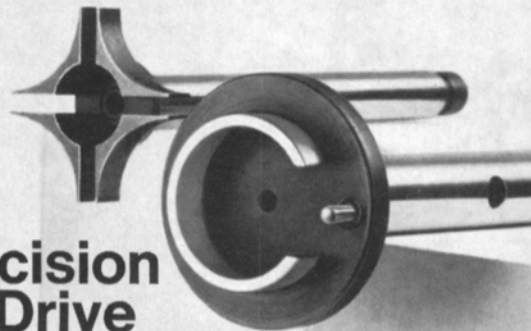


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The **Selectake II**, an audio tape position locator for fast, accurate cueing has been introduced by 3M Company's Minicom Div., P.O. Box 33600, St. Paul, MN 55133, for use with its professional Series 79 multitrack recorders. A sophisticated location and selection device, the device is a powerful microprocessor in a compact, self-contained calculator-style case to be used remotely (shown above close-up in lower right-hand corner). Programming a cue during a session simply requires entering a "store" command and the digitally displayed time on a keyboard. Up to nine separate cues can be stored in the unit's memory. No information is placed on the tape. Cue recall is accomplished by touching the recall key, number key corresponding to store position and locate key which moves the tape drive to the specified location at high speed stopping within one count of the cue point, thus eliminating overshoot. The control panel contains full tape control functions including rewind, forward, record, stop, play and locate. Tape motion driven, both digital time and locate readouts cover minutes from 0.00 through 99.99. The display is "frozen" upon tape runoff allowing rethreading without loss of location. Features include automatic "hi-low" speed switching with manual select for 7½ to 15 and 15 to 30 in/s ranges. Logic pushbuttons are highlighted. The Selectake II is priced at \$1750.

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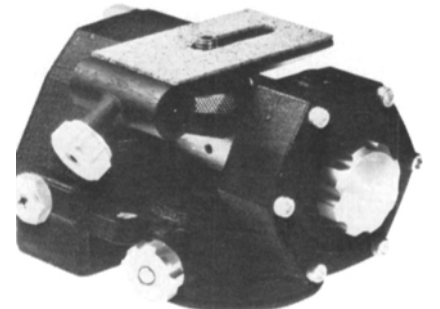


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The **O'Connor Model 30**, a new fluid type camera head for motion-picture and video photography, has been announced by O'Connor Engi-



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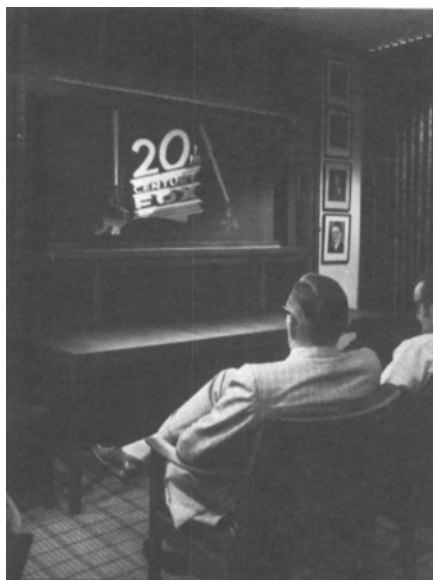
We call it the E-V System. Each model designed to best solve a particular problem... and all models designed to work together. To mix without abrupt quality changes. To be easily equalized because there are no power-robbing peaks. To work without fail, no matter what. And to provide the optimum signal-to-noise ratio (acoustic or electrical) that gives your signal a clean start.

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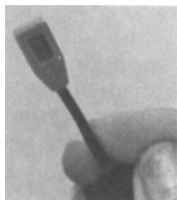
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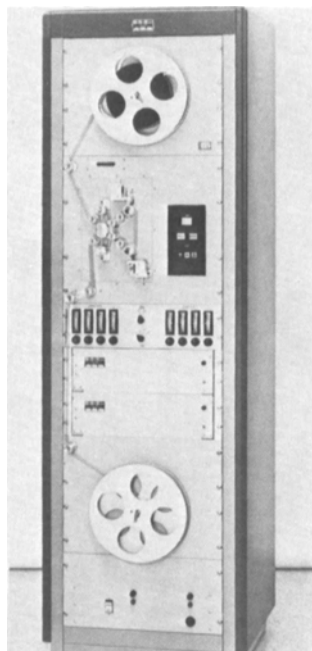


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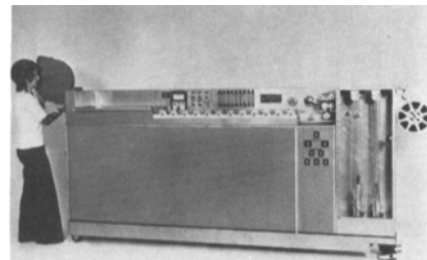
neering Laboratories, Inc., 100 Kalmus Dr., Irvine Industrial Complex, Costa Mesa, CA 92626. Made of cast aluminum, Model 30 is small (4¼ in high, 7 in wide, 5 in long) and weighs 5 lb. It is designed to handle motion-picture and video cameras weighing 10 to 30 lb. The camera head has an infinitely variable drag adjustment; it can pan 360° and can tilt ±60°. Features include a new counterbalance feature that can be adjusted in the field. The handle may be used for right- or left-hand operation and adjusts vertically. The device has been designed to provide smooth, jerk-free filming for professionals in both motion-picture and video industries. Base price of the Model 30 is \$625. A number of options and accessories are available.



The WRE Model 880 super-8 sound-playback inspection console, designed to handle all S-8 film formats, has been announced by Wide Range Electronics Corp., 2119 Schuetz Rd., St. Louis, MO 63141. Designed to allow accurate checking of sound reproduction transfers on S-8 single strand, 16mm/S-8 (1-3 & 1-4) or quad (5R) film formats at 1X and 2X real time, the system is reported to exceed reproducing characteristics of all known film projectors. It is calibrated against SMPTE super-8 test films for frequency response, signal level, flutter and azimuth alignment. It can be used as a companion to the WRE High Speed Super 8 Magnetic Transfer Console, as well as to panel printers with sound recording capability, to eliminate down time on the high speed transfer console and film loss in the laboratory. Features include frequency response of 50 Hz to 8 kHz (±2 dB); maximum wow and flutter of 0.15% rms; and total harmonic distortion of less than 2%. The film capacity is 3000 ft. Prices for Model 880 start at \$4650.

A Student Spectrophotometer, the Mss-100, has been introduced by the Macbeth Division of Kollmorgen Corporation, Little Britain Rd., Drawer 950, Newburgh, NY 12550. Features include a "working" display of the transmission spectrum while giving a measurement of the percent transmittance or absorbance of a solid, liquid or gas at any selected wavelength of the visible spectrum from 400 to 700 nm. Although designed specifically for student use, the pho-

tometric linearity and wavelength resolution (accuracy ±5 nm) are adequate for some analytical work. The photometric range is 0 to 100% for transmittance and 0 to 1.3 for absorbance. Photometric accuracy is ±5% T. Tristimulus values, chromaticity coordinates and color differences may be evaluated. The spectral slit-width is 20 nm, photometric readout is on a 7-cm nonlinear scale for both transmittance and absorbance. The price of \$295 includes a colorimetry workbook, filter set and liquid cell. These three items are also available separately.



The Compac-Line™ of film processors, including Models 617 and 617-VNF, has been announced by Houston Photo Products, Inc., 655 E. 20 St., Yuma, AZ 85364. Model 617 for daylight operation only, is designed to process all types of 16mm Ektachrome film by the ME-4 process at a rate of 17.5ft/min (5.33 m/min). The machine is 8 ft 2 in (5.33 m) long (less magazine), 55 in (140 cm) high and 23 in (58 cm) wide. The film transport is by a bottom tendency drive removable rack using a floating film spool driven by an internal vinyl covered drum. Each bottom spool is driven and any desired threading pattern can be used. All rollers are covered using vinyl tires. The prehardener, two developers, bleach and fix solutions are recirculated and filtered. Price of Model 617 is \$14,700.

Model 617-VNF is for Type 7240 16mm Ektachrome in the VNF-1 process only. The price is \$13,700.

The new VIF 1002A, an operational audio amplifier designed to eliminate mechanical noise transfer problems and reduce significantly the weighted noise levels of Ampex tape recorders, has been announced by VIF International, P.O. Box 1555, Mountain View, CA 94042. The device is an operational-amplifier circuit designed to eliminate microphonics and also to reduce substantially weighted noise levels. Each adaptor comes with a detailed calibration sheet showing frequency response and SNR plus complete installation instructions and a revised schematic diagram of the Ampex model in which it is to be used. The VIF 12A is specifically designed for use in all Ampex professional audio recorders equipped with the octal based 12SJ7 tubes with the exception of Ampex Model 3200. Price of the VIF 1002A is \$48.

The Dynex, Model 240, a single-ended audio noise suppressor, has been announced by Ino-novics, Inc., 1630 Dell Ave., Campbell, CA 95008. The device is a program-controlled filter/expander which offers a means of suppressing a certain amount of residual background noise in audio reproduction systems, TV film chains, etc. Features include selective suppression of rumble, hiss or wideband noise and restoration of program dynamics by linear broadband expansion. Variable threshold adjustment and visual indication of expander operation are provided. The price is \$260.

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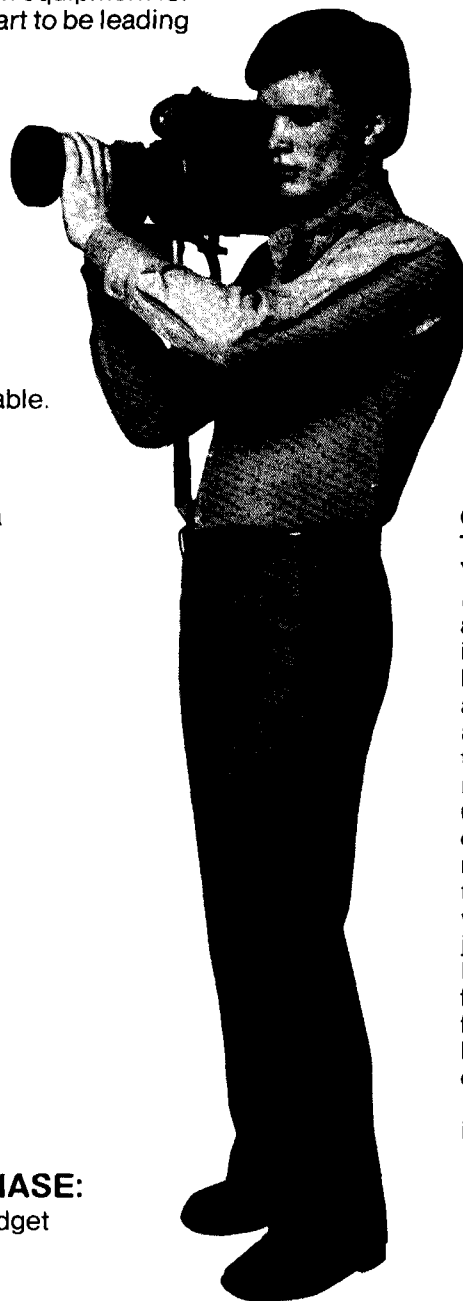
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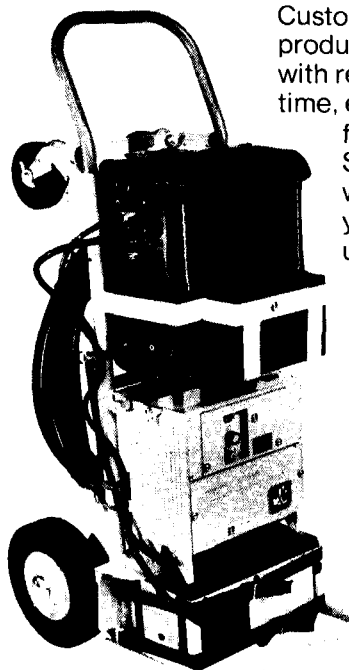
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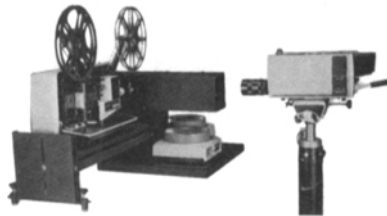
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Products for sound recording and mixing recently announced by Compteurs Schlumberger, Department Audio Professional, 296 Ave. Napoleon Bonaparte, BP 226, 92505 Rueil-Malmaison, France, include the F 400 tape recorders, a new version of the DS 16/DS 17.5 tape recorder and the UPS 4000 sound-mixing desks.

Features of the F 400 include a dc drive motor, crystal-slaved and phase-locking to provide a constant tape transport speed with stability better than 0.02% and a reduced wow (average 0.025%). The dc drive motor allows variation of speed, forward and reverse tape transport and easily controlled acceleration and deceleration. It can be integrated into automated systems. Prices for the F 400 series begin at about 31.200 FF.

Features of the new version of the DS 16/DS 17.5 professional tape recorder include perforated tape driven by a smooth capstan; closed loop control; and incorporated memory feeding a digital converter. The tape recorder can function when linked to a projector by means of an encoder which generates the pulses caused by the movement of the film; linked with a telecine using the signals provided by it (either two signals one after the other or information on direction and position); coupled to one or several machines by an electronic link; independently at 24 or 25 frames/s synchronized to the mains or an internal optional tuning fork. The DS 16 and DS 17.5 machines can be synchronized with modern telecines which run at 10 times their nominal speed. Above this speed the log information is recorded in the storage. Prices for the DS 16 and DS 17.5 range from 58.900 to 64.800 FF.

The XTAL 60, a crystal sync signal generator designed to permit sound recording with the Optasound 116R and any crystal-controlled motion-picture camera has been announced by Optasound Corp., 25 E. 26 St., New York, NY 10010. The instrument plugs into the Optasound 116R sound machine to record a 60-Hz signal on the recorder sync track. In addition, two 116Rs may be operated simultaneously or in sequence off the same XTAL 60. The filmmaker can make either identical tracks or he can alternate the recorders to cover extended shooting sessions. The recorder and signal generator are available as a unit or the XTAL 60 can be acquired separately. Power for the generator is supplied by a single 9-V transistor battery. Dimensions of the XTAL 60 are 4 1/16 x 2 1/16 x 1 1/2 in. It weighs 8 oz. Price of the 116R recorder with the XTAL 60 is \$650. Price of the XTAL 60 alone is \$135.

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