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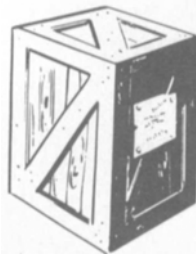


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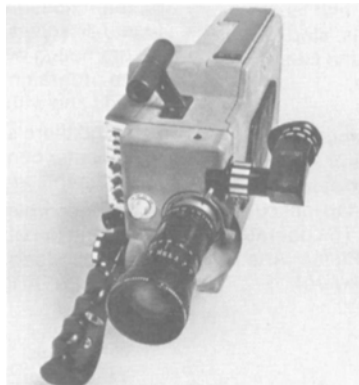
## new products

(and 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.

An improved system of doubling the effective emulsion speed of EK 5247 negative film to an Exposure Index of 200 without distorting the color fidelity, without significantly increasing the fog level and without creating objectional granularity has been announced by Consolidated Film Industries, 959 Seward St., Hollywood, CA 90038. An extension of the system can be used to redouble the speed of this type of negative to an EI of 400 with a trade-off of somewhat increased granularity and with some loss of shadow density detail.

The new system should not be confused with simple forced development, or pre-flashing or post-flashing techniques (or combinations of both), the announcement stated. The CFI method is reported to obtain increased emulsion speeds without disturbing the equal response of the negative to the basic primary colors, so that the prints match scene-to-scene when intercut, regardless of whether they have been processed for normal, or one- or two-stop increase. The new process is known as AL (available light) 200 or AL 400 for night photography.



The TGX 16mm single-system/double-system image-and-sound reflex camera, a self-contained, self-blimped internal 400-ft coaxial cassette-load camera constructed of Hi Rez, a "virtually indestructible" plastic, has been announced by General Camera Corp., 471 Eleventh Ave., New York, NY 10018. The camera has a rotating mirror shutter. The camera body is 5 in wide, 8 in high, 15 in long and weighs 7 lb 10 oz. With a nicad battery, a 400-ft loaded film cassette and 12/120 mm Angenieux zoom lens it weighs less than 13 lb. Features include a multi-informational viewfinder with a built-in out-of-sync warning

light; a low-battery warning light; a digital footage counter; VU meter display and illuminated ground glass. The speed is variable from 18 to 48 frames/s. Included in the system is a behind-the-lens gel filter holder; a 12-V nicad battery; a dual battery charger; a cassette magazine; two gel filter holders; a front cavity cap; an academy TV ground glass; a motor and display control handgrip; and a fibre optic screen to provide the cameraman with a brighter, clearer picture. The price for the basic TGX cine sound system is \$6,500.

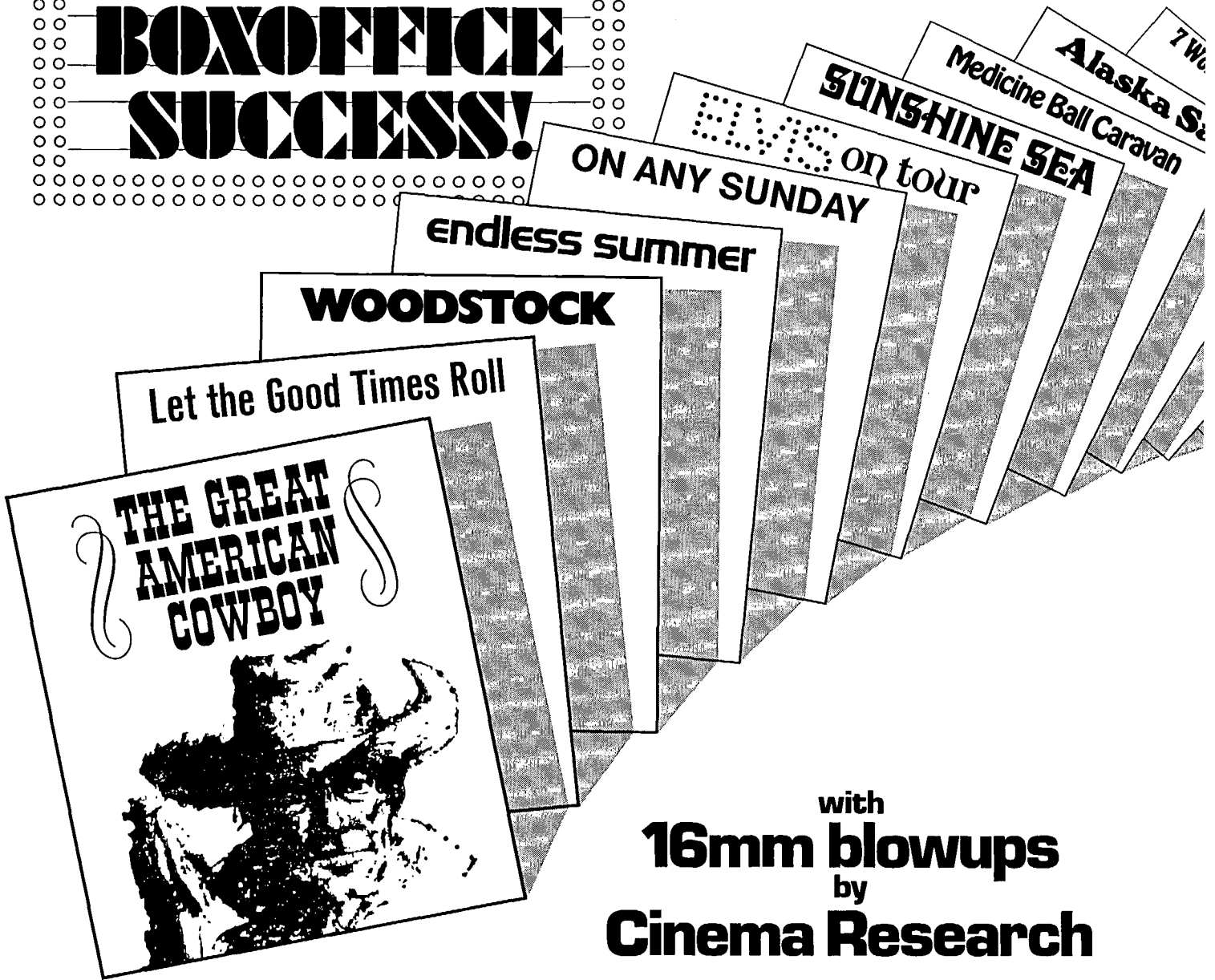


The Beaulieu 5008S sound-on-film super-8 camera has been announced by Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91403. The camera has a Beaulieu-Optivaron 6-66mm (1:11 zoom ratio) lens. There are four different sound options — single system sound (or sound-on-film using Kodak's super-8 magnetic prestriped sound film); doubles system sound (using a sync generator and a separate tape recorder); single and double system sound simultaneously; and one pulse per frame sync filming (using an Erlson contact switch and a modified tape recorder). The camera can also be used for silent filming. Sync speeds are 18 or 24 frames/s. Features include the Beaulieu Reflexmatic Motor to govern exposure accuracy; mirrored shutter system; automatic exposure control with manual override and macrocinematography capability. The price is \$1,660.



The Studio Rig package designed to convert any CP-16R reflex camera into a studio-type camera has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The package consists of a riser block, matte box rods, follow focus mechanism, matte box unit and an assortment of

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square and round filters. The Studio Rig package is priced at \$2000. A special J-4 "Joy Stick" zoom control package employing a belt drive mechanism for maximum sound isolation is available as an option at a price of \$945.



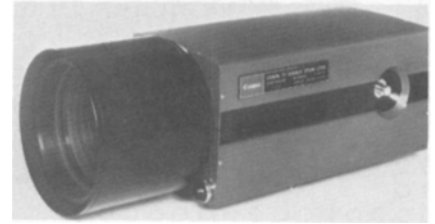
The modular system provides many features including direct tape to mag transferring (1/4-in. to 16 or 35mm); work track preparation; fingertip control pick-up recording (rock and roll); premixing with picture; synchronous and high shuttle speed forward and reverse; built-in mixing console with a maximum of eight inputs and four outputs; input channels are individually equalized with push-button assignment; complete patching and monitoring capability; standard 19-in. accessory space provided for noise suppressor, dip filters, etc.; available with one, three, and four-track master recorder, 16 or 35 mm; reverb, echo, and other special effects are available; maintenance-free operation; portable. The price is approximately \$30,000.

Three new Minuteman color TV cameras, the CEI-290 (backpack color), the CEI-280 (broadcast color) and the CEI-435 (medical/industrial), have been announced by Commercial Electronics Inc., 880 Maude Ave., Mountain View, CA 94043. The 290 has been designed mainly for mobile videotaping and live TV broadcast. The system includes a camera head with a detachable viewfinder; an Angenieux f/2.8, 10:1 zoom lens; backpack unit; and 100-ft cable. The price is \$26,500. A camera control unit with NTSC encoder and operating control panel is priced at \$11,550.

The 280 for broadcast color TV features full remote control with all operating engineering controls located at the remote set-up panel. Three Plumbicon tubes have been combined with a dichroic beam-splitting system to provide high SNR, 600 lines luminance resolution and accurate color rendition. The price range is from about \$22,550 to \$27,775, depending on various options.

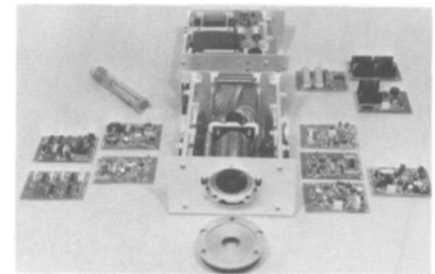
The 435 for medical and industrial applications is light sensitive and in most situations can operate with available light. For medical applications it can be mounted directly on the beam splitter of a microscope. The price is

\$23,750 without the pickup tube and other optional equipment.



Designated the PV 34X24 B-DZ, the lens is reported to have an optical efficiency of more than 80% and can be used with all 1-in and 1 1/4-in color television cameras. The price is about \$23,000.

The Marconi V327 industrial television camera system using "building block" modules has been announced by Marconi-Elliott Avionic Systems Ltd., Airport Works, Rochester, Kent ME1 2XX, England. The design aim was to achieve maximum interchangeability, commonality of parts and uniformity of style. Designed mainly for such applications as traffic control, security systems and heavy industrial use, it can also be used in education, training, document transmission and similar applications. The camera is fully automatic in operation after the initial adjustment of lens iris and focus. The system consists of two units which may be installed separately or joined together — (1) the camera, including the scanning yoke and associated circuitry, and (2) the camera control unit which incorporates the power supply module and the major preset controls. Price of the basic system in its simplest form is about £ 650.

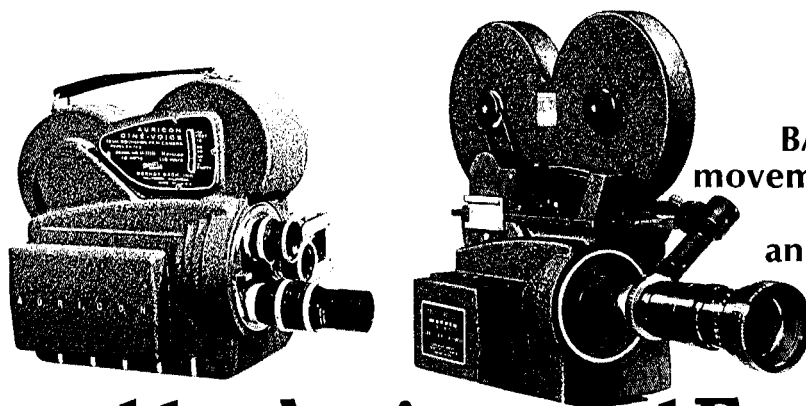


The Kestrel camera crane, Type 743, for outside broadcast and motion-picture applications, has been announced by W. Vinten Ltd., Western Way, Bury St. Edmunds, Suffolk IP33 3TB, England (United States agent: Lis-tec Television Equipment Corp., 35 Cain Dr., Plainview, NY 11803). The two-man operated crane is available in both manual and powered versions. The jib gives an operating height of 23 in to 77 in and can lift a total load of 500 lb (cameraman, camera and head). The manual version provides the tracker with steering, tracking and job elevation

square and round filters. The Studio Rig package is priced at \$2000. A special J-4 "Joy Stick" zoom control package employing a belt drive mechanism for maximum sound isolation is available as an option at a price of \$945.




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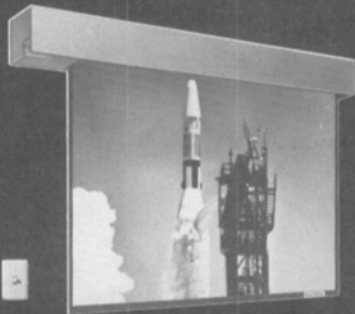
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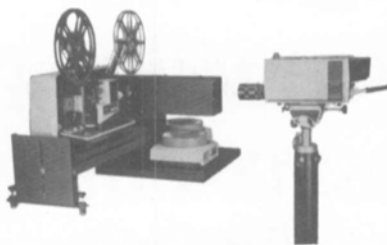
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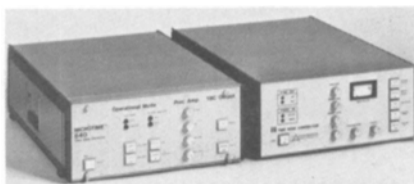
control. In the powered version, the jib is under the direct control of the cameraman. Operation is by stored hydro-pneumatic pressure. The crane has pivoted wheel assemblies for width reduction to 28 in and 360° seat and camera mounting rotation. Price of the Type 743 Kestrel camera crane is \$12,000.

**Kodak Ektachrome EF Film 7242** (Tungsten) is presently available in a 50-ft super-8 sound cartridge for use in cameras designed to accept this format, it was announced by Eastman Kodak Co. The film is magnetic-stripped to permit single-system picture/sound recording. A high-speed reversal color film, it is suited to low-level illumination as well as outdoors in daylight with appropriate filters. Applications include color newsreel photography, night sports coverage, and industrial and documentary film production. Price per cartridge is \$4.15.

**Scotch brand 420 videotape**, a quadruplex videotape designed to provide substantial improvements in video noise reduction, has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. The new tape is reported to exhibit a 2 dB improvement in color noise and 3 dB improvement in comparison with the firm's No. 400 videotape. The new tape also has better dropout control.



The EA-5 videotape editing control system for helical scan VTRs has been announced by Television Research International, 1988 Leghorn St., Mountain View, CA 94043. Designed for use with the IVC 700, 800 and 900 series; the Ampex VR7800 and VR7900 series; and the Sony EV310, 320, 320F and 340, the EA-5 has dual controls with a specially designed system of indicators to guide the operator. It provides a still-frame mode to simplify the location of edit points whether they are to be identified on the basis of either video or audio content. A foot pedal is incorporated as a release for parking brakes on the recorder and by releasing the brakes it is possible to adjust the tape position manually thus permitting the viewing of the individual frames. The EA-5 system has also an edit preview function to allow evaluation of the continuity surrounding the edit point. The EA-5 is 21 in long, 11.5 in high, 18.25 in wide and weighs 35 lb. The price is \$4,600.



Two new time-base corrector systems, Series 610 and 640, have been announced by Televi-

sion Microtime, Inc., 1280 Blue Hills Ave., Bloomfield, CT 06002. The 610 is a standalone analog time-base corrector for helical-scan videotape recorders. The machine has various operating modes, selected by front panel pushbutton controls, including broadcast heterodyne color from V-lock or no-lock helicals; picture straightening; signal processing to sharpen CATV transmissions; drive outputs to gen-lock studio teleproduction; and derived coherent subcarrier processing for dubbing. A Microtime interface feature permits independent Program/Monitor output selection. Price of the 610 is \$9,850.

The 640 is a standalone digital time-base corrector for nonsegmented helical-scan videotape recorders. Features include a wide window able to handle erratic signals from low-cost VTRs including battery-operated units. Front panel controls and automatic circuits provide operating flexibility. The price is \$12,500.



A new in-line soft Chroma-Keyer for use with VTRs and off-the-air signals has been announced by Technicolor, Inc., 291 Kalmus Dr., Costa Mesa, CA 92626. The device combines the functions of the Chromatech (*Journal*, p. 71 Jan. 1974) with a decoder making it possible for the user to reproduce shadows or to look through glass or smoke while retaining all the advantages of a linear Chroma-Keyer. The new unit accepts two composite or non-composite NTSC signals and provides a composite or non-composite output. The system includes a remote control panel which can be used to operate the unit up to 500 ft away. Price of the new Chroma-Keyer including the remote control panel is about \$4,000.

The **Portaprompt**, a lightweight portable prompting device developed by Engineering Designs and Supplies Ltd., Cores End Rd., Bourne End, Bucks SL8 5AY, England, is available in the United States from Listec Television Equipment Corp., 35 Cain Dr., Plainview, NY 11803. The instrument is 17½ in high, 12½ in wide and weighs about 31 lb with the carrying case. Intended for use in outside broadcasting where a full multi-monitor prompter system is not required, it can also link material and inserts in news and current affairs programs. The unit comprises an overhead projector with the base removed to which is added the EDS transparency drive unit together with the power supply and controls. The script is typed onto the OHP direct preparation transparency and by using ordinary carbon paper a reader's desk copy can be produced at the same time. The transparency is projected onto a small screen beneath the TV camera lens. Script speed can be 15¼ in/min. Price of the Portaprompt is \$1,800.

A new RF Power Signal Source was announced by Ailtech, a Cutler-Hammer Co., 19535 East Walnut Dr., City of Industry, CA 91748. The unit covers the frequency range of 300 to 3000 MHz with CW power output up to 1 kW. The instrument is completely solid state with the exception of the RF oscillator

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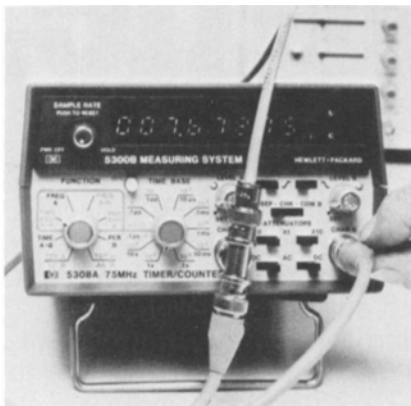
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ceramic triode. Designated the M125A, the instrument is priced at \$5,990.

The CVI Model 310 Video Integrator, a device producing a dc output voltage within a selected area of the input video signal, has been announced by Colorado Video, Inc., Box 928, Boulder, CO 80302. The device, providing continuous measurement at a 60 sample/s rate, is intended for use in applications where it is desired to monitor the average brightness within a given area of a scene being observed by a television camera. Applications include dynamic analysis of x-rays, solar flares, and other observations where a television camera is used to pick up rapidly or slowly varying changes in brightness. Two or more 310s can be used in parallel to make differential measurements. The price of Model 310 is \$1,500.



A new 75-MHz Electronic Counter/Timer, Model 5308A, has been announced by Hewlett Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. It is a new module in the HP snap-together measuring system. Mated with the 8-digit Model 5300B display, the 5308A forms a package 3½ in high, 6¼ in wide and 9¾ in deep. It weighs 5.3 lb. The 5308A, like other universal counters, counts frequency, frequency ratio, period, period average and time intervals and it scales and totalizes. In addition it offers sub-nanosecond time interval averaging and it autoranges to select the range that gives the best resolution within a convenient measuring time, 0.11 to 1.1 s. The 5308A is said to be the first electronic counter to autorange when averaging time interval or when measuring frequency ratio, in addition to autoranging frequency and period average measurements. Price of the 5308A Timer/Counter module is \$450. The necessary 5300B module (if not already on hand) is priced at \$460.

The Jiskoot DG2, a digital signal generator, is a newly developed product of Jiskoot Autocontrol Ltd., Tunbridge Wells, Kent TN1 2DJ, England. The device uses phase lock loop synthesizer techniques and has a quartz crystal frequency generator for controlled accuracy and stability of signal. Designed to produce output frequencies from 0.1 Hz to 1MHz, the unit can be used also as a wide-range frequency multiplier when driven from an external reference frequency. The unit uses CMOS and low-power TTL integrated circuits to achieve very low power consumption, permitting operation from an integral battery where no electric supply is available. With a digitally-set frequency signal and no frequency counter to check output, the DG2 can be used for testing and servicing equipment on

site. The multiplication range is from 0.001 to 1000 with settings to three significant digits. The unit measures 2½ by 8½ by 10 in and weighs 4 lb. The price is about \$330.

Photosense, an electronic system designed to report instantaneously any malfunction in a film processor has been announced by Technology Inc., HF Photo Systems Div., 11801 West Olympic Blvd., Los Angeles, CA 90006. Breakdowns and other extraordinary situations in the processor can be detected by the electronic sensors which announce the condition by means of a flashing light in a display window together with an audio alarm. The unit contains a fail-safe backup light system to protect against faulty monitoring. Functions most commonly monitored by Photosense include water, hypo and developer temperatures, pressures and flows, film breaks and film speed, power, re-exposure lamp and pre-hardner temperature. Prices range from \$3,000 for the basic six-window configuration to \$10,000 for custom cabinets.

The Model 2015L Ultrasonic Film Splicer has been announced by Metro/Kalvar Inc., 745 Post Rd., Darien, CT 06820. The splicer employs a 15° angle splice to provide greater strength for spliced polyester base film. It can accommodate any film width up to 35mm. The splicer makes a 0.020 in to 0.040 in overlap weld, made without scraping the emulsion. No cement or tape is required. The price is \$1,760.

The DT-63, a black-and-white digital transmission densitometer, has been announced by the Densichron Div. of Sargent-Welch Scientific Co., 7300 N. Linder Ave., Skokie, IL 60076. It is of modular construction. The optics are ANSI diffuse standard and may be converted to ANSI specular if desired. The circuits are solid-state monolithic. The range is 0 -3.0+. The instrument can be switched to null mode thus allowing ± readings to be made in routine measurements. The DT-63 is priced at \$795.

A portable pH meter has been announced by the Densichron Div. of Sargent-Welch Scientific Co., 7300 N. Linder Ave., Skokie, IL 60076. The instrument, designated Model RB, is self-contained in a molded case with large meter and storage compartments for buffer solution and electrodes. The Model RB uses either mercury batteries or a 9-V zinc-carbon battery. The price is \$103.90.

A four-platter 35mm Autowind Model 4 for Twin Theaters has been announced by Christie Electric Corp., 3410 W. 67 St., Los Angeles, CA 90043. It retains the advantages of the earlier two- and three-platter Autowinds (Journal, p. 349, May 1972). The system, designed to operate with any projector, automatically rewinds the film as it's being projected. Features include plug-in servo speed control of both takeup and feed reels. The film can be transferred from one reel to another without going through the projector. The basic Autowind 4 system includes the make-up table. It has four reels 52 in in diameter with 4½ h capacity and a film guide roller system. The basic system is priced at \$6,390. Depending on accessories, prices range up to \$7,930 for the Autowind 4 with a fail-safe control system and two sets of reel support arms (for U.S. projectors only).

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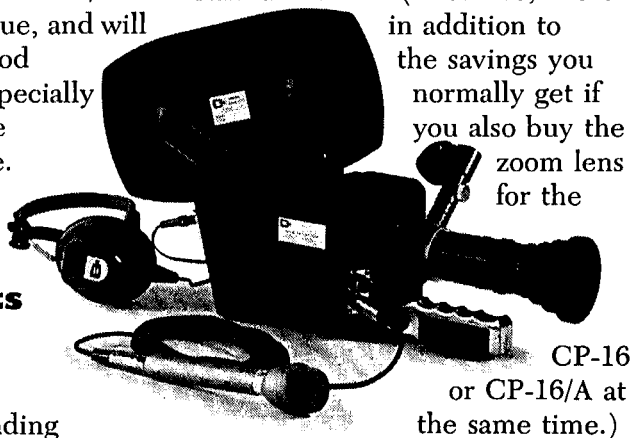
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With savings and benefits like these, why risk your precious equipment dollars on yet another "re-manufactured" conversion?

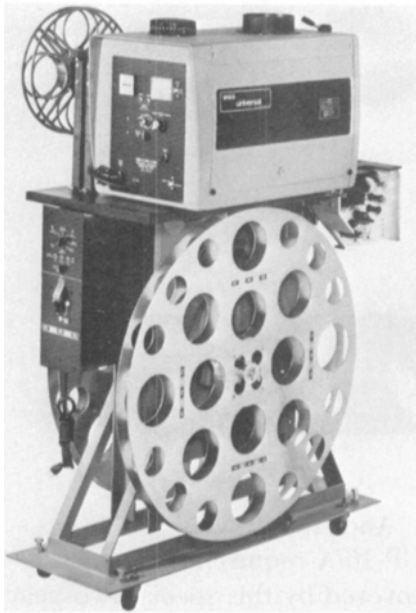
Move up to a brand new, *all new* CP-16/A, the uncontested leader in the TV-newsfilm/documentary field. You owe it to yourself.

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\*See adjacent page for listing of authorized North American CP-16 Dealers participating in this special offer.



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**Super Forward Sword**, a new 35mm film handling system featuring high-speed reel-to-reel operation, has been announced by Eprad, Inc., Box 4712, Toledo, OH 43620. A compact unit, installation complete with any standard projector, lamphouse and soundhead, requires 10 ft<sup>2</sup> of booth floor space and 6 ft ceiling height. In a two-unit installation, half a full showing is run on projector #1 and the second half on projector #2. While projector #2 is running, projector #1 is threaded for rewind. The film is automatically reword

around the projector and threaded for the next showing. Price of the Super Forward Sword is \$2,495.



**The Bivox D**, a new Silma dual 8 sound projector for super 8, as well as regular 8mm film, has been announced by Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91423. The speaker portion of the projector, provided with a 25-ft extension cord, can easily be detached from the body. Other features include a quick-change knob from super 8 to 8mm (or vice versa); fade-in and fade-out sound control and sound-on-sound with control of the sound level of the first recording; a 12-V, 100-W halogen dichroic lamp; and electronic speed change. The price is \$519.50.

**The Silma S99**, a dual 8 silent projector for super 8, as well as regular 8mm film, has been

announced by Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91403. Compact and light weight, the machine has been designed to provide flicker-free viewing. Other features include 400-ft reel capacity, removable film gate for easy cleaning, and instant replay. The projection speeds are 18 frames/s and 9 frames/s for slow motion. The price is \$174.50.

**Two new super-8 sound projectors** have been announced by GAF Corp., 140 W. 51 St., New York, NY 10020. The two projectors (2000S and 3000S) accept either super-8 or regular 8mm magnetically striped sound film or unstriped silent film. Both have a Chinon *f*/1.3, 15 to 25mm zoom lens, automatic reel-to-reel threading and accept up to 400-ft reels. The 2000S runs at a speed of 18 frames/s and the 3000S runs at 18 and 24 frames/s. The 2000S is priced at \$259.95 and 3000S is priced at \$309.95.

**An Oxberry type peg**, animation paper and cel punch conforming to standard paper and cel registration has been announced by the distributor, R. P. Heath Products, Inc., 1627 Scott Ave., West Islip, NY 11795. There is one round peg (0.218 in) in the center and two slot pegs (0.250 × 0.500 in) on either side, 4 in from the center. The punch has, at the right, one in-line round peg for alignment of pan cels, papers and backgrounds. Three to ten cels and papers, acetate, Mylar or cardboard up to 1/16 in can be punched at one time. The punch has a body of cast iron on an 11-by 15-in easel of triple ply birch with aluminum facing. It is a hand-operated punch with a wood grip. The price is \$260. Acme type pegs are also available.

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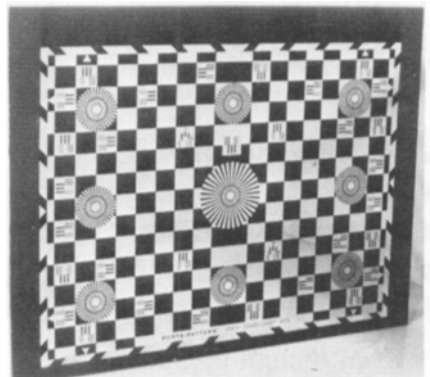
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**Black-and-white geometric test patterns** in an 8- by 10-in transparency format for direct replacement in light-box systems have been announced by Telecommunications Industries Ltd., 6335 Homewood Ave., Suite 204, Los Angeles, CA 90028. The transparencies are produced on a clear acrylic plastic base with a direct reading emulsion to allow the camera to look directly at the pattern without any distortion of glass or plastic between the image and the lens. The image emulsion is not subject to damage under normal usage and the transparencies are not affected by usual operating temperatures, the announcement stated. The transparencies may be cleaned with any commercially available cleaner. Geometric patterns including Resolution, Linearity, Registration, Multi-Burst, Chess Board, Window, Lens Focus and Depth of Modulation are available in either positive or negative form. Each pattern is priced at \$62.50.