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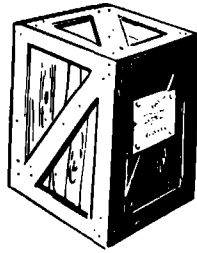
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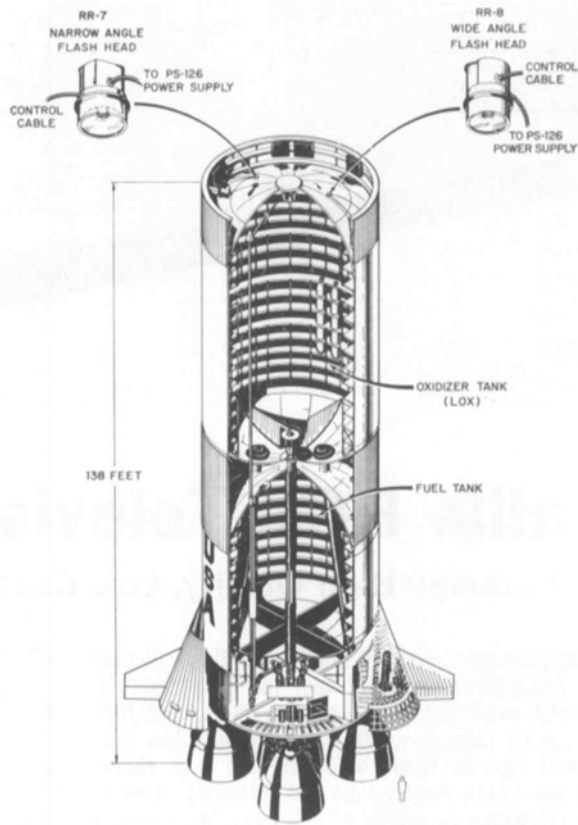
(and developments)

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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.

Flash illuminating systems for the Saturn V launch vehicle will be developed by Edgerton, Germeshausen & Grier, Inc., 170 Brookline Ave., Boston, Mass. 02215,

under a contract with The Boeing Company's Michoud Operations of New Orleans. The Saturn will eventually launch NASA's 3-man Apollo spacecraft for a manned moon-landing. The flash illuminating systems, synchronized with the on-board cameras, are designed to provide high-intensity light for test flight photography that will enable Boeing and NASA scientists to study the motion behavior of the liquid oxygen propellant inside the Saturn V booster.

Each 1-in. EG&G flashtube will provide about 14,000 1m-sec of light energy, or about 4 million peak candlepower. Using reflectors, each system is expected to deliver nearly 200 million peak candlepower. For each of the Saturn V vehicles to be tested under this program, two units will be supplied, each consisting of a flash assembly with an EG&G helical xenon flashtube, a reflector with related electronics, a 200-w power supply and a liquid cooling system. Shortly after burnout of the first-stage Saturn booster, the camera magazines will be ejected from the vehicle and retrieved by aircraft.



A planetary surveying platform to be used for continuous uninterrupted strip mapping of a planet's surface is now under development at Avco Corp.'s Research and Advanced Development Div., 201 Lowell St., Wilmington, Mass. 01887. The unit consists of a precision two-axis gimbal system supporting a spherical shell. The shell is capable of handling up to 120 lb of television cameras, infrared spectrometers, antennas and other surveying and mapping instrumentation. It allows for a full traverse of  $\pm 360^\circ$  in azimuth and  $\pm 60^\circ$  in elevation. Previous industry designs required the periodic

shutting down of instrumentation while the spacecraft oriented itself toward the sun for recharging of batteries.

The planetary surveying design uses horizon sensors mounted on the platform to detect the planetary horizon. The horizon sensors provide command data for the gimbal axes' servomechanisms to aim the instrumentation toward the center of the planet. Features of the design include capability of operating from computer command information or, with a two-axis solar sensor, to provide sun-oriented payload position control. The gimbal structure is supported on specially lubricated bear-



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ings which permit extended operation in a space environment. Both gimbal axes are controlled by braked servomechanisms to provide the system accuracy necessary for optical mapping.

A 3-in. image dissector pickup tube with a resolution of 3,000 television lines/in. has been announced by Westinghouse Electronic Tube Division, Elmira, N.Y. Called the WL23111, the tube is said to have excellent black-and-white contrast and a short rise and decay time. It is designed for such applications as microfilm readout, television film scanning, and high-speed flying-spot scanning. Simpler circuitry is possible because there is no beam-forming gun. Standard image-orthicon components can be used when scan rates

permit. A zoom effect can be attained electronically by magnification through scan reduction. By decreasing the deflection amplitude and underscanning the image, a magnification of several hundred times is possible.

During operation of the image dissector, an electronic picture corresponding to the optical image focused on the faceplate is emitted from the photocathode. The electronic picture is then scanned across an aperture and at any instant in time, only the electrons passing through the aperture enter the electron multiplier. The quantity varies with the light intensity on the portion of the image being scanned.

An accessory installation called the F&B/CECO Auricon Film Buckle Trip

has been announced by F&B/CECO 315 W. 43 St., New York, N.Y. 10036. The device consists of a mechanical tripping lever which activates a microswitch in the camera when there is a film jam. The camera and the amber running light are then immediately shut off and a red buckle light stays on until the camera is cleared and restarted. Price of the installation is \$75.

A new series of attenuators developed for use in audio transmission circuits for recording, broadcasting and motion-picture sound applications has been announced by Altec Lansing, a division of LTV Ling Altec, Inc., 1515 S. Manchester Ave., Anaheim, Calif. Available in both un-

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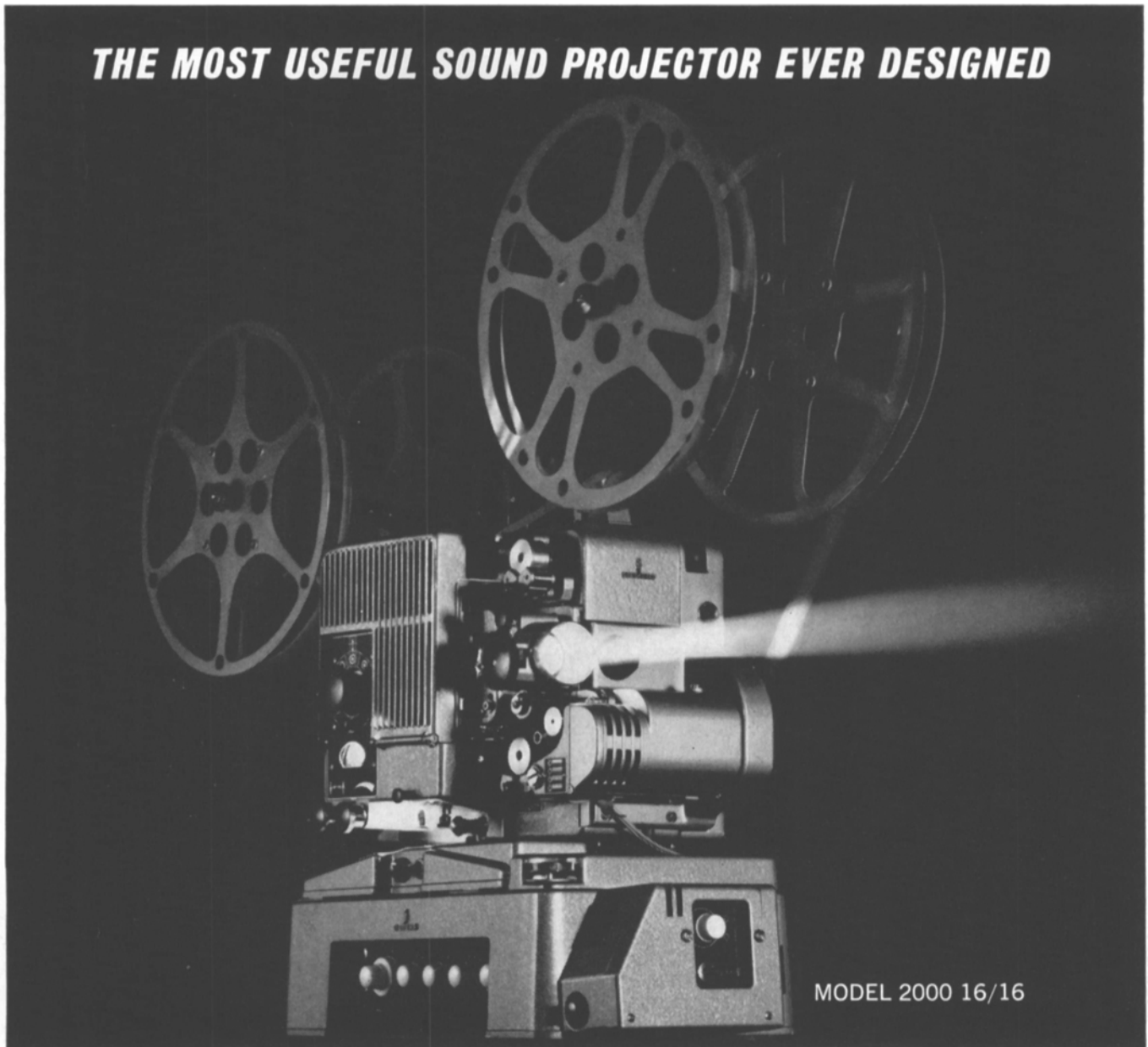
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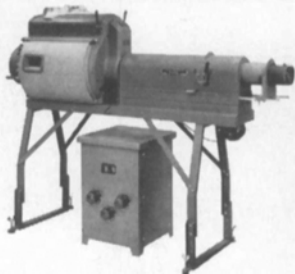
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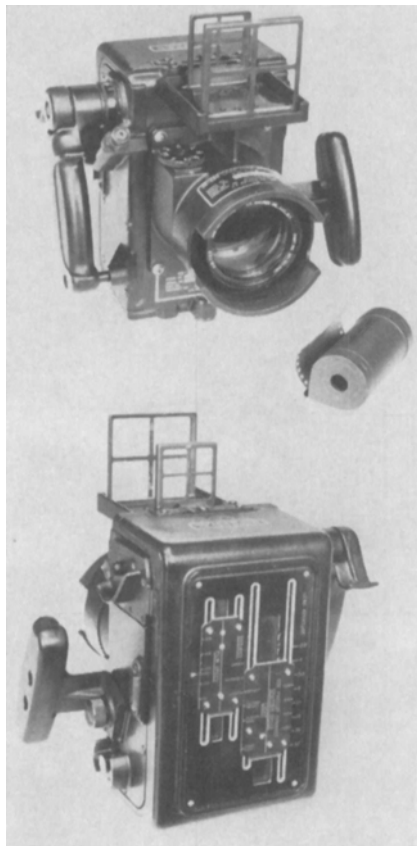
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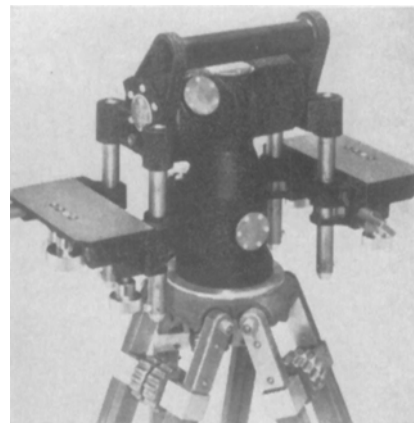
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balanced and balanced circuit configuration, and designed in either rotary or straight-line models for mono- or multi-channel operations, the series includes more than 300 types in 10 different categories such as mixers, calibrated controls, grid control potentiometers, VU range extenders, precision decade attenuators, precision matching networks, precision decade resistors, turntable faders and stereo pan pots. Prices for the various types range from about \$18.90 to about \$40.50.

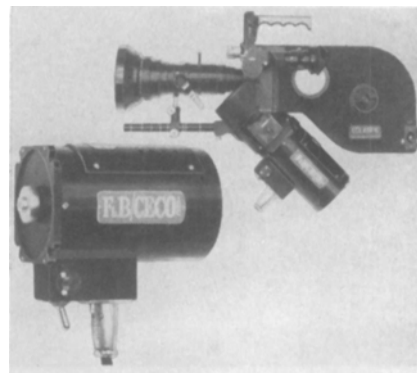


The KE-28B camera has been developed by J. A. Maurer, Inc., 37-01 31st St., Long Island City, N.Y. 11101, under a U.S. government contract, for use by the Bureau of Naval Weapons. Designed to be handheld or operated from a fixed position, it is primarily intended for use by airborne or shipborne photographers at altitudes ranging from sea level to 10,000 ft. Designed to operate in a temperature range of 0 F to +110 F, the storage range is -65 F to +160 F. The camera includes a lens cone containing an f/2.8 coated lens of 6-in. focal length, a detented iris diaphragm variable from f/2.8 to f/32, a high-efficiency focal plane shutter capable of speeds up to 1/1000 sec, a multipurpose capping shutter, a folding sports-type viewfinder, an exposure calculator, and a vacuum pressure plate. The cassettes used (Daylight Loading Cassette Eastman Kodak Spec. 488) have a capacity of 15 ft of 70mm, perforated film (60 exposures) and are completely light-tight. The camera weighs about 9 lb and is 8 1/2 in. wide (with both handles), 7 1/2 in. deep (with lens cone), and 8 in. high with the viewfinder folded.

A new fluid-action pan and tilt motion-picture and television camera head has



been announced by O'Connor Engineering Laboratories, 385 E. Green St., Pasadena, Calif. 91101. Designated Model 40, dual camera platforms, accommodating up to 40 lb each, allow two cameras to be focused continually on the same subject. The camera tilts above its center of gravity. Smooth panning and tilting are provided by the fluid-action principle and the camera can be tilted straight up or down and pan through a full 360°. Wide-range drag controls are provided and can be quickly adjusted with no loose parts. Constructed of high-strength aluminum and steel alloys, Model 40 is designed to be completely environment-proof, impervious to salt air, dust, grit and corrosive atmospheres. It is priced at \$750.



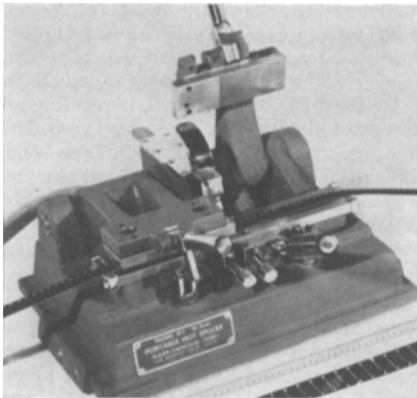
A synchronous motor developed specifically for the 16mm Eclair NPR camera has been announced by F&B/CECO, Inc., 315 W. 43 St., New York, N.Y. 10036. The new motor weighs less than 4 lb and is said to be completely noiseless. Designed for versatility, the motor operates on 45 w from a 110-v a-c power source and optional gearing adapts to 25 frames/sec and/or 50 cycles. The motor is priced at \$650.

Lindau film and paper shearing machines are produced by Eric S. Lindau, Manufacturer, Box 483, Lake Forest, Ill. 60045. Five models are available for various purposes. Model No. 2 is used both for paper shearing and for film. The machine takes the film off the reels automatically. It can handle seven 16mm reels at one time, taking the film from each reel at a speed of about 120 ft/min. The machine has no spacer plate and is equipped with a straight stainless steel plate 9 in. long. Shearing speed is 75 ft/min and the sheared pieces are 3/64 in. in width. Sheared material blows through a chute

into a container. The 58-lb machine has only four moving parts. The motor is a-c 1/3 hp. It is priced at \$890.

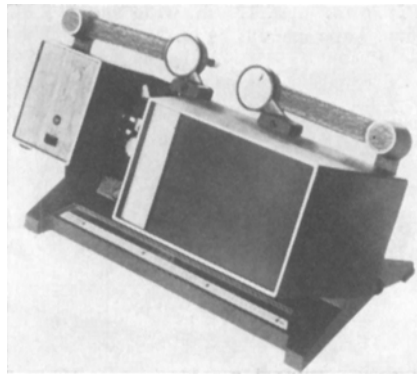
**Tele-Color**, a line of color film processors designed and engineered for television, has been announced by Houston Photo Products, Inc., 460 W. 3rd St., Yuma, Ariz. Model CA-1620 is designed to process all types of 16mm Anscochrome film using Ansco AR-2 process. Model CE-1620 is designed to process 16mm Ektachrome (Type 5256, 5257, 5258 and 5386) using the Eastman Kodak ME-4 process. Both machines have a capacity of 20 ft/min and are approximately 12 ft in length.

Racks and tanks are constructed of stainless steel, except in the bleach where red brass rack and tanks and nylon-graphite ball bearings are utilized. Film drying is accomplished by a specially designed impingement drying cabinet called Monitor Ease. Devices are provided for control of both temperature and humidity in the drying cabinet. The film transport features top friction clutch with adjustable bottom film roller assemblies. Developer and prehardener solutions are recirculated and filtered. Replenishment is by flow-raters mounted on the back rail of the tanks. The machines are in the \$15,000 price bracket.



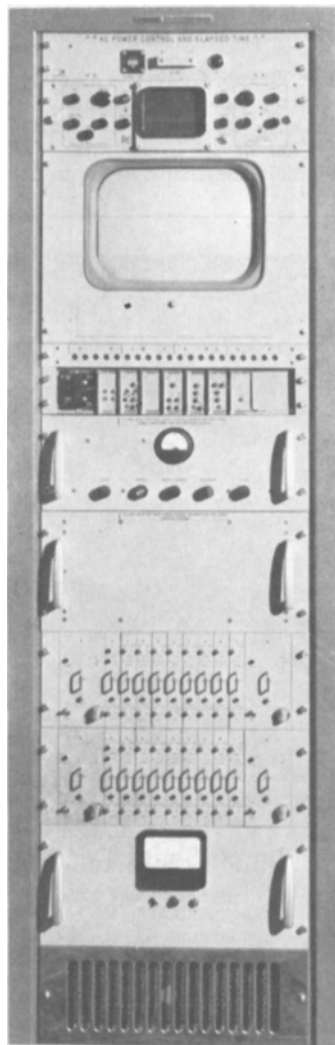
A new **Maier-Hancock Triple Combination portable hot splicer** that handles Eastman Super-8mm, standard 8 mm and 16mm silent or sound film has been announced by Maier-Hancock Sales, Inc., 14106 Ventura Blvd., Sherman Oaks, Calif. The splicer, designated Model 816-S, features retractable registration pins specially designed for the new Super-8 perforations, plus standard 8mm pins and 16mm pins. Also available is Model 816-ST, a single-purpose Super-8 portable hot splicer designed to accommodate the new format in 16mm widths before the film is split for reduction printing and other processing. This unit splices Super-8 only. Each model is priced at \$299.

The **HPI Super-8 Editor/Viewer** has been introduced by Hudson Photographic Industries, Inc., S. Buckhout St., Irvington-on-Hudson, N.Y., for use with the new Super-8 film. The machine has a 3- by 4-in. viewing screen, focusing control, a built-in film notcher, built-in framing control, and scene-timing scale. The editor is designed to be used on either 110 v or 240 v and has an on-off switch plus a red pilot light to indicate when unit is on when shutter is



closed. A "wide stance" base permits use with a maximum 8mm film supply. The film path in the editor is a straight-line path with slip-in loading to protect the film. The unit is priced at \$34.95.

The firm has also added a 400-ft capacity film reel designed especially to hold Super-8 film to its line of Quik Load Reels. The reels feature solid but transparent sides protecting the film from pressure and dust as well as allowing the film to be seen during projection so that the user can estimate the remaining showing time.

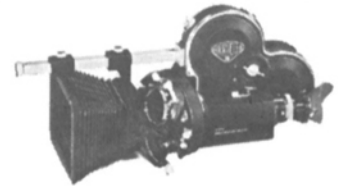


A television test signal generator, designed and built by Philco Corp., Tioga and C Sts., Philadelphia, Pa. 19134, for the control/display system in the Mission Control Center of NASA's Manned Space-

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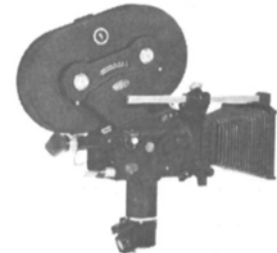


### ARRIFLEX 16mm CAMERA



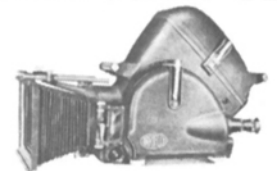
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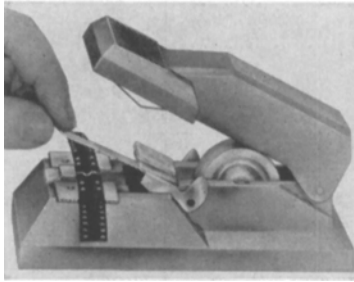
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craft Center, Houston, Tex., provides a flying spot scanner-generator video picture signal from 2-by 2-in. slides and other test signals. The signal generator is usable with either 945- or 525-line television systems. The generator includes solid-state modules to provide a cross-hatch signal for testing and adjusting the scanning linearity of TV cameras and monitors; a 10-step staircase signal for testing differential gain and phase; and a multiburst signal for rapid testing of frequency response. For use with 945-line 20-mc bandwidth systems, the multiburst signal contains a 19-mc sine wave component. Up to 32 composite or non-composite video output signals may be provided by the generator's solid-state video distribution amplifiers. For rapid monitoring and flexibility of video distribution, a patch panel, a video waveform monitor and a picture monitor are provided. The system is priced at \$15,000.

**The Videomat tape recorder**, a device for showing instant black-and-white sound motion pictures, has been announced by Sony Corp. of America, 580 Fifth Ave., New York, N.Y. The recorder can be adapted for coin operation, the announcement stated. Designed to be completely automatic, either with or without the coin operation feature, the Videomat, with a Sony video camera, can be operated by means of a single control pushbutton. An individual can thus record his own performance in front of the camera and immediately play it back. The unit has a 12-in. picture screen. Fully transistorized,

it is 26 in. high, 15½ in. wide and 11½ in. deep. Tape speed is 7½ in./sec.



**The Dupage Splice-A-Matic**, which incorporates a patented dry splicing method, has been announced by Dupage Metal Products Inc., 211 South Main St., Lombard, Ill. 60148. The method involves a fold-over wrapping to achieve the taping and splicing on both sides of the film at once. In operation the tape is pulled from the roll and applied across the film. The film carrier is then pushed forward and both sides are taped automatically. The operator then presses down the cutting head to complete the splice. The 16mm Splice-A-Matic (Model 616) is available at a price of \$12.95. An 8mm model called the Pic-A-Splice (Model 568) is also available at a price of \$4.95.

**The Bar Graph Generator**, Model 101, has been announced by Colorado Video Inc. (CVI), Box 928, Boulder, Colo. 80301. The device is used with standard closed-circuit television systems to provide

a graphic display of eight separate input signals in the form of vertical bars, the height of each being proportional to the associated input voltage. Controls allow the positioning and spacing of bars for best display efficiency. Data can be mixed with normal TV images, and two or more units used in parallel when additional bar groups are desired. Individual channels can be readily distinguished, and groups identified by size, location, or video polarity. Model 101 is priced at \$1,250.



**A new line of home video-tape recording systems** has been introduced by Ampex Corp., 401 Broadway, Redwood City, Calif. The new line is based on a compact recorder priced at \$1,095 for a one-speed model and \$1,295 for the two-speed model. Four furniture console systems, including the recorder, television camera, television receiver and related accessories, range in price from \$1,795 to \$2,495, depending on choice of one-speed or two-speed recorders and color or black-and-white receivers. The recorders use 1-in. tape and are designed to be color compatible. Tape speed is 9.6 in./sec and a second speed of 4.8 in./sec is also provided for economy in making black-and-white recordings.

**The SOS Tel-Amatic, Model A-32**, a transistorized optical sound film amplifier, has been announced by SOS Photo-Cine-Optics, Inc., 387 Park Ave. South, New York, N.Y. 10016. The unit operates at 120-v a-c, 50/60 cps and consumes power at a maximum rate of 75 w. The circuitry includes 8 transistors and 4 silicon rectifiers. Features include two high-impedance photo-cell inputs and a microphone input. The amplifier is priced at \$179.50.

**Markel Econo/Notch Poly-Piers**, polyethylene cylinders to cushion instrument-cabinets in shipping cartons, are produced by Markel Rubber Products Co., 514 Jackson Ave., Bronx, N.Y. 10455. The Poly-Piers are designed for low cost and effective protection of surface and internal components. The notching method is used to eliminate the hard "skin" formed by other processes. Standard notching is 90° extending to the center; other types of notching are available. The cylinders are supplied in 3-, 4- and 6-in. diameters and are available in any length with end-pads of any desired thickness.

Size: 7" x 5" x 5"

**BANISH TIME-CORRELATION TEDIUM**  
With Adtrol's new portable Model TPG\* Timing Pulse Generator

Now, instead of counting time-correlation marks on motion-picture film one by one, you can count by tens or hundreds—and cut the drudgery as much as 99 per cent. The TPG\* generates timing pulses at three selectable rates—10, 100 & 1000 cycles per second. At the 100 cps rate, a *double pulse* is generated every 10 pulses. At the 1000 cps rate, a *double pulse* is generated every 10 pulses, and a *triple pulse* is generated every 100 pulses. The unit has ±0.5% accuracy, 300V output at 15μsec., rechargeable internal N/C battery (also operates on external 110 VAC or 28 VDC). Made by Adtrol Electronics, Inc., distributed by Traid Corp. Write Traid today for complete information. \*Patent Pending

**TRAID CORPORATION** 777 Flower St., Glendale, Calif. • Ph. 213/245-9393  
3702 Munsey St., Wheaton, Md. • Ph. 301/942-5341  
1207 Banana River Dr., Indian Harbor Beach, Fla. • Ph. 305/262-2944