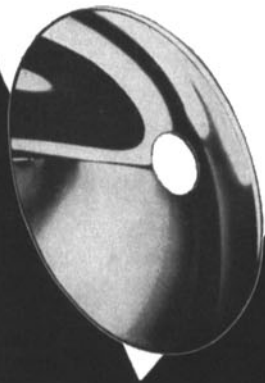


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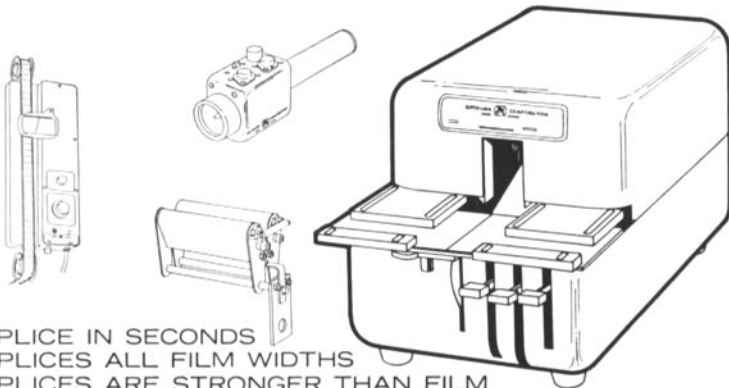
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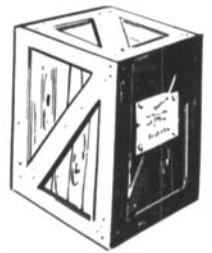
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new products

(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.



The Optacord 600, a low-cost, portable video-tape recorder that can be interconnected with existing home TV sets, has been developed in Germany by Loewe-Opta A.G. and will be introduced in the United States and Canada early next year by Video-Medical Electronics Corp., Time and Life Bldg., Rockefeller Plaza, 40th Fl., New York, N.Y. 10020, according to a recent announcement.

The new recorder can be used to record programs for immediate playback over home TV sets. Also, automatic unattended recording of television programs is made possible by means of a pre-programmed switch clock, enabling the viewer to record programs of his choice when he is not at home, or to tape a program from one channel while he is watching a program on another channel.

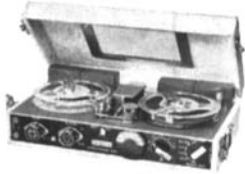
Except for its inability to synchronize its signal directly for broadcasting, the new recorder is said to have many of the qualities of more costly recorders. Features noted in the announcement include: portability (weighs only 40 lb); slow speed (consumes tape at 6 in./sec); running time of 1 hr without rewinding or reversing; capability for conversion to color picture recording. The price is expected to be under \$3,000, including camera and accessories.

A new television camera tube, the Elcon, has been introduced by English Electric Valve Co., Ltd., Chelmsford, Essex, England. The tube contains a target manufactured with a new material in which the picture charge transfer process relies on electronic conduction rather than on ionic or electrolytic conduction. The new target is said to eliminate the "target demise" occurring after a few hundred hours of image-orthicon operation. Also, it

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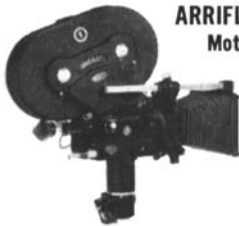
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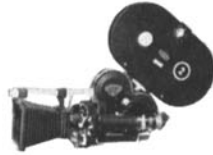


Complete with: VA galvo/amp-lifier/mike/50' cable/desk mike stand/earphones/batteries/connecting cable/400' Mitchell mag./super silent conversion motor/built-in filter slot/noiseless counter/case brand new, complete **\$1,885.00** or lease it at **\$59.00** per month
trade-ins accepted/used outfits available/write for prices



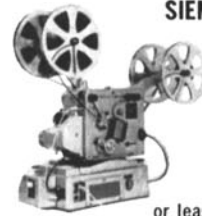
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Single-double system/edge track/optical, magnetic or both/records & plays back on optical & magnetic. brand new (without spkrs) **\$1,895.00**

or lease it at **\$59.00** per month

Bauer Projector, complete, brand new **\$1,250.00**

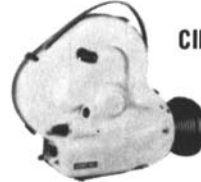


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Complete with: 2-1000' mags/110V AC-DC var. speed mtr./110 AC-DC stop motion animation mtr./4 matched lenses or zoom lens/H-D tripod head with H-D std. legs/triangle/changing bag. Performance guaranteed, used ... **\$5,250.00**



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Studio Quality Sync Sound Shooting
Features: hi-impact plastic/weight, 12 lbs./use with 8V constant speed or 115V sync motor/use with sync signal generator/lens follow focus from outside/f-stops visible from outside/may be hand held using shoulder brace. Arriflex 16-S Blimp, 400', brand new **\$960.00**
Arriflex 35 Blimp, brand new **\$1,110.00**

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25/250 Angenieux, Arri/Mark II mts., w/ss-filt. hldr. **1675.00**
60/240 Pan Cinor w/finder, BNC/NC mts., Acad. TV reticle ... **2200.00**
35/140 Angenieux, Arri/Mark II mts., w/ss-filt. hldr. **825.00**

TELEPHOTOS

200mm Berthiot, interchangeable Arri/NC mt. **95.00**

MOTORS

12V Filmo motor **89.00**
110V AC Filmo sync motor **110.00**

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Colortrans 1000W focusing quartz **95.00**
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with diffuser lens, plus **15.00**

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200' x 35mm Arri mags. **25.00**
400' B&H Bi-Pack mags. **295.00**

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B&H model 70, 3-lens turret, w/handle, less lenses **175.00**

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Mitchell H-D balanced ball bearing, w/case **425.00**

PROCESSING

35mm neg.-pos. processing machine, 60' per minute **1200.00**

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Zeiss Moviscop 16mm viewer **69.95**
Traid 8/16mm hot splicer **179.50**
HFC (Green Hornet) 35mm auto-tape splicer **129.00**
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is said to eliminate sticking, to give longer life and to reduce black compression while maintaining unimpaired sensitivity throughout its life. The new tube can be used with existing image-orthicon cameras as well as with the transistorized zoom camera built specifically to take maximum advantage of its performance.

A closed-circuit television camera featuring an 8-in. electronic viewfinder has been introduced by Sylvania Electric Products Inc., 730 Third Ave., New York, N.Y. 10017. Called the 800V, the camera has a 4-position lens turret and focusing knob. Manual lens selection may be made from the rear of the camera and a manually controlled zoom lens may be used without accessories or modifications to the unit. Changing light conditions are compensated for by an electronic self-adjustment said to compensate for 4,000 to 1 light variations. Viewfinder circuits are completely transistorized except the picture tube and high voltage rectifier. The camera, which contains more than 1,000 resistors, capacitors, transistors, and diodes, 4 miniature voltage regulators, and 20 pre-set controls, weighs 38 lb and measures 8½ in. wide, 11¼ in. high and 17¼ in. long. It is priced at about \$4,975.

A new wide-band FM microwave relay system for high-quality transmission of color or monochrome television signals in the 10.5 to 13.25 Gc frequency range has been announced by Radio Corp. of America, 30 Rockefeller Plaza, New York, N.Y. 10020. Known as type TVM-3B, the system is reported to provide exceptional broadband frequency coverage and transmission fidelity. Transmitter power of 350 mw is generated by a new type of klystron said to have an inherent frequency stability common to most lowband reflect klystrons. The new system meets both CCIR and EIA performance standards for both monochrome and color TV transmission. Differential phase of 0.3 degrees and differential gain of 0.1 db per hop are provided.

A high-speed, high-contrast black-and-white instrumentation film called Anso FPC-335 has been introduced by the Photo & Repro Division of General Aniline & Film Corp., 140 W. 51 St., New York, N.Y. 10020. The film, originally developed for photographing missiles and other objects against the sky, has a speed of 160 with resolution said to be as high as 100 lines/mm on a high-contrast target. The film can also be used as a slower-speed medium gradation film by changing processing times and solutions. The emulsion is coated on a Plestar fiber base, a dimensionally stable, tough plastic. The film is available in 16mm, 35mm and 70mm in standard motion-picture lengths.

Five new types of motion-picture film have been announced by Eastman Kodak Co.: (1) Eastman Reversal Color Print Film, Type 7387, 16mm; (2) Eastman 4X Panchromatic Negative Film, Types 5224/7224, 35mm and 16mm; (3) Eastman Fine Grain Duplicating Positive Film, Types 5366/7366, 35mm and 16mm; (4) Eastman XT Panchromatic Negative Film, Types 5220/7220, 35mm and 16mm; and (5)

Eastman Fine Grain Release Positive Film, Type 7303, 16mm.

These films were described in papers presented at the Society's 96th Technical Conference in New York: "A New Fine-Grain Duplicating Positive Film" by W. H. Bahler, R. A. Morris and F. W. Spangler; "A New Low-Speed Black-and-White Camera Negative Film" by W. H. Bahler, M. L. Judd, F. W. Spangler and A. L. Williams; "A New High-Speed Black-and-White Camera Negative Film" by W. H. Bahler, M. L. Judd, F. W. Spangler and A. L. Williams; "A New 16mm Fine-Grain Release Positive Film" by W. H. Bahler, R. A. Morris and F. W. Spangler; and "A New Improved Reversal Color Print Film" by Herbert L. Rees, Deane S. Thomas, Jr., and Robert C. Lovick.

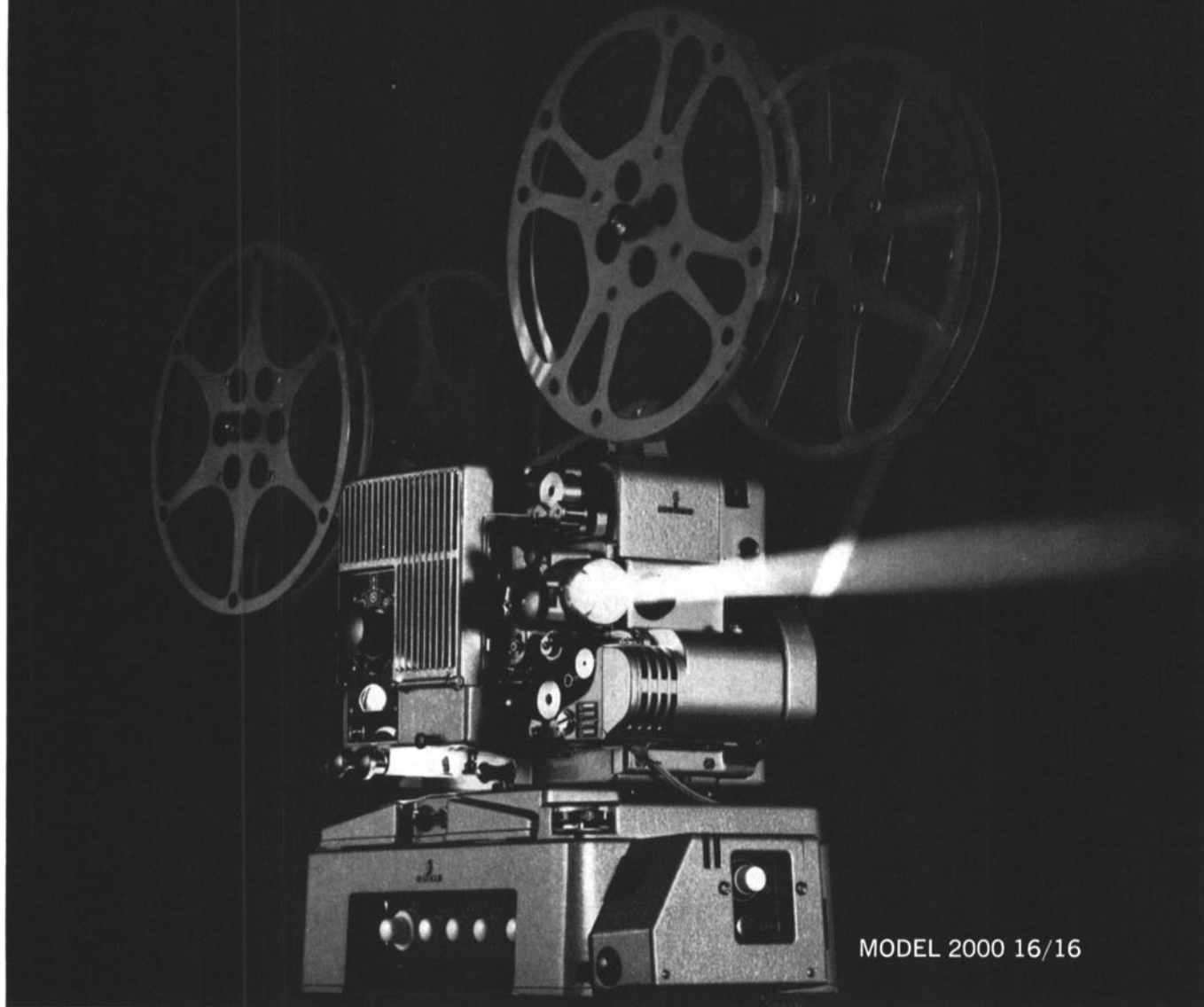
The Type 7387 film has been designed for superior color reproduction, especially in greens and reds, improved sharpness, somewhat finer grain and higher speed. The 4X Panchromatic Negative Film has been designed for filming in extremely adverse lighting conditions. It is said to have about twice the speed of the Tri-X Panchromatic Film which it succeeds. Types 5366/7366 are said to be faster than present fine-grain duplicating positive films and to make possible a fourfold increase in printing speed, without a resulting increase in granularity.

Types 5220/7220 have been designed especially for exterior motion-picture work. The film is said to provide extremely fine grain and sharpness for outside photography or for other situations where the inherent light level is high. It has approximately one-third the speed of Eastman Plus-X Panchromatic Negative Film, Types 4231 and 7231. While the new 4X Pan is designed to extend available speed range on the high side, Eastman XT Pan is designed to extend the speed range on the low side. The new 16mm Fine-Grain Release Positive Film, Type 7303, is designed to have improved sharpness and sound reproduction characteristics over its predecessor, Type 7302.

The Magnecorder Model 1021 magnetic tape recorder has been announced by Magnecord Sales Dept., Midwestern Instruments, Inc., P.O. Box 7509, Tulsa, Okla., 74105. Designed specifically for broadcaster use, it is said to be flexible enough for any monaural recording application. The tape transport is built on a precisely machined, rugged die-casting to ensure stability of the tape driving elements. A single solenoid system is used to actuate the brakes. The electronics are solid state, with regulated power supply and built-in transformers for impedance matching to console or speech equipment. The transport is pushbutton operated and solenoid controlled. Tape speeds are 3½ and 7½ in./sec. Price is \$659.

The FM Record Amplifier, announced by Kineloc Corp., 29 S. Pasadena Ave., Pasadena, Calif., is designed for use with magnetic tape recorders to record both frequency and amplitude components of a datum. The amplifier, designated Model EFR-1, is available in two linearity models, ±0.25% or ±0.1%, and operates directly from a ±10%, 28-v, d-c supply. The unit is fully encapsulated and weighs

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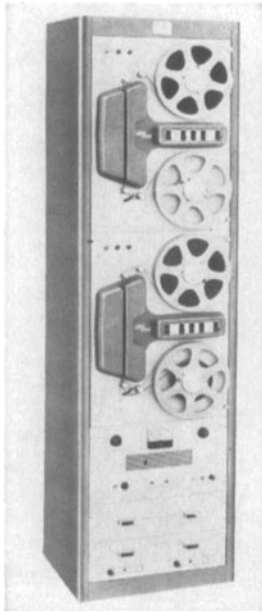
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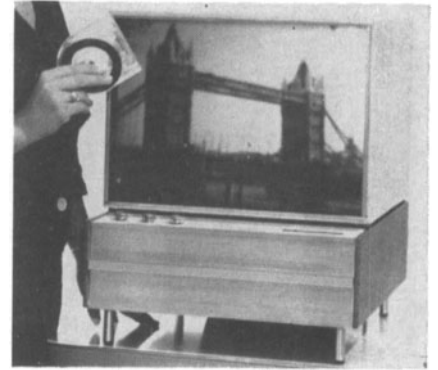


The Magnasync TR-1510 rack-type recorder/reproducer has been designed to make simultaneous recordings of up to ten channels of audio information. A product of Magnasync Corp., a subsidiary of Monogram Industries, Inc., 5547 Satsuma Ave., North Hollywood, Calif. 91601, the unit incorporates a "fail-safe"

feature. Protection is afforded against the loss of information by the use of two tape transports, one or the other of which is always in the standby mode. An inaudible (to human ears) control tone is continuously recorded and reproduced at a level well below that of the desired voice recording. If the playback head does not pick up the signal and the fail-safe control monitor amplifier does not detect the inaudible tone, the operating transport "senses" that it is functioning improperly and switches over to the standby transport. As a further protection against the loss of recorded signal, the power supplies to the system are duplicated. Any one of the ten channels can be individually monitored on either of the two transports. A rotary switch allows the operator to monitor either the incoming signal or the reproduced signal, which occurs approximately two seconds after the recording is made. Solid state circuitry is used to minimize down time, maintenance and heat problems; $\frac{1}{2}$ -in. tape is used. Optional features include remote control, remote mode indicator, and synchronous time injection. The basic unit is priced at \$5,950.

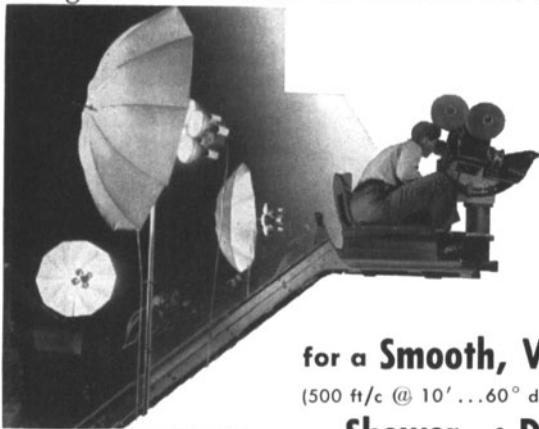
A new model of the 16/35 Camerette with provision for Techniscope production has been announced by Eclair Corp. of America, 8078 Woodrow Wilson Dr., Los Angeles, Calif. 90048. The new model, called the CM-3 "T," is said to be instantly convertible back and forth from normal four-perforation pulldown to Techniscope two-perforation pulldown by sliding a cam

in the camera body (no disassembly required), sliding appropriate mattes into the aperture and viewing system, and shifting a gear in the magazines. Features of earlier models are retained, including instant-change magazines, fully rotating eyepiece, divergent turret, variable shutter, CinemaScope framing, and convertible 16mm or 35mm filming with the same camera.



A new model of the Instant Movie Cartridge Projector produced by Technicolor Corp. has been announced. Designated Model 600, the new projector, an 8mm console motion-picture viewer designed especially for classroom use, uses a rear-projection optical system to show a brilliant picture in a fully lighted classroom. No threading or rewinding is required. Model 600 has three controls, an on-and-off button, a picture framer and a focus control. Also feature is a special front-surface mirror system in which three front-surface mirrors are used to "fold" the light beam within the housing, giving the effect of a long projection throw. Price to schools for the new model is \$199.50.

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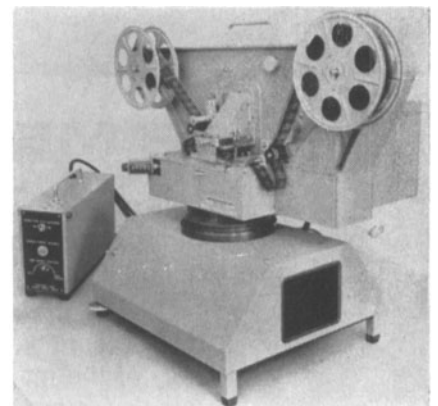
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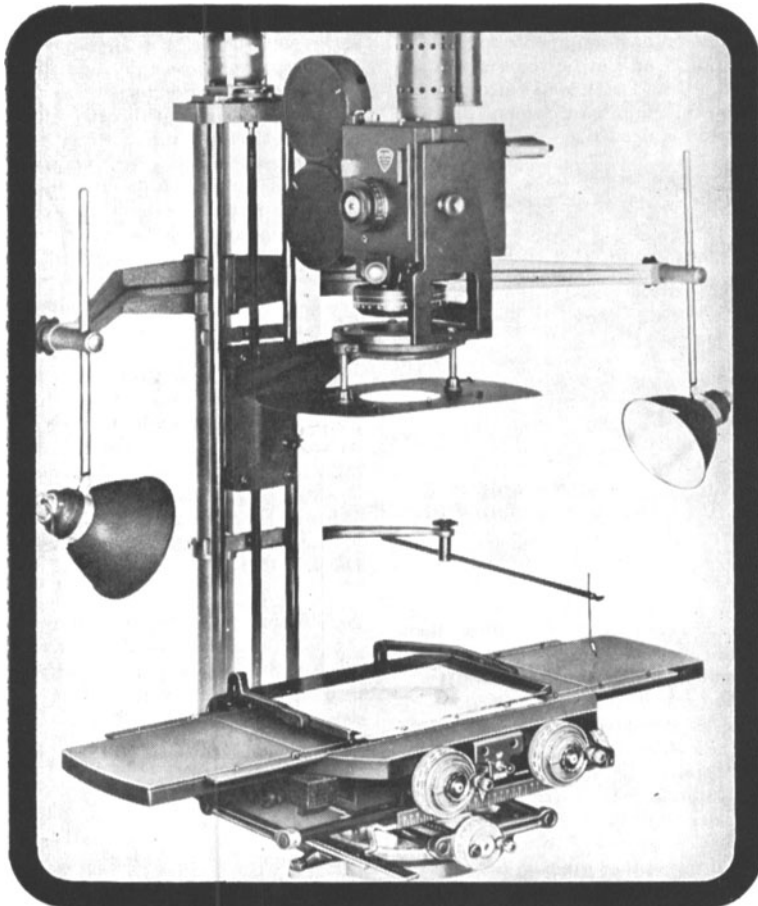
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A 35mm stop-motion projection system, designated Model M-35CS, developed by Vanguard Instrument Corp., is distributed by Traid Corp., 17136 Ventura Blvd., P.O. Box 648, Encino, Calif. Designed for film presentation to small groups, with an image size of 2 by 2 $\frac{1}{4}$ ft at a 7-ft distance, the picture on a wall viewing screen can be rotated to any angle. An extra blower has been added, directing air across the film in the projection aperture with an additional heat filter to eliminate "popping" or out-of-focus conditions. The unit includes a

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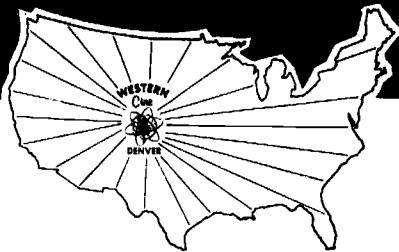
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PROCESSING:

Ektachrome Commercial .045 per ft.
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WORKPRINTS:

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Color .11 per ft.
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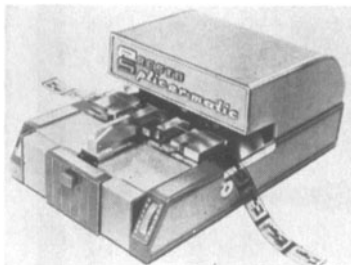
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Lipsner-Smith Ultrasonic Film
Cleaning equipment
cleans all original film
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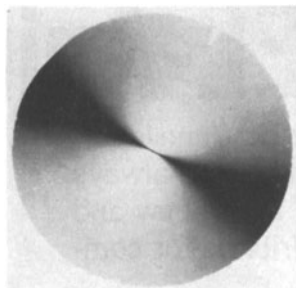


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table-top projection stand and control box. The projection head can be removed from the projection stand and used with a standard rear projection case when precise data reduction is needed.



An automatic splicer which features an integrated, calibrated tensile splice tester to provide reliability of each splice has been introduced by Prestoseal Manufacturing Corp., 37-12 108 St., Corona, N.Y. The machine, called the Presto Splicer-matic, is said to align, cut, plasticize, splice and test each splice in seven seconds. Depending on the model, butt-welded, compressed overlap, or transparent bridged/double reinforced splices of similar or dissimilar materials and film bases can be made. After each splice the unit automatically resets itself for a new splice/test cycle. Plug-in heater control module heads are employed to enable users to switch from one material to another quickly. The price range is from about \$2,000 to \$2,400 depending on the model.



The Phoden Disc (photographic density disc) developed by Ellis W. D'Arcy and Associates, Box 1103, Ogden Dunes, Portage, Ind. 46368, is described as being essentially a noncontact potentiometer which uses a glass or film disc of photographically varied transmissivity. In operation a linear photocell on one side of the disc is excited by a light source on the other side. Developmental activities are continuing but the device is presently being produced with an accuracy of log .01, the announcement stated. In operation the discs are said to be frictionless and to have low inertia. According to the announcement, the discs can be made of any function plotable on an XY ordinate system and can be produced in any planular format.

Development of a thermionic energy converter module that operates from a single heat source has been announced as a "first" by the RCA Special Electronic Components Div., Radio Corp. of America, 30 Rockefeller Plaza, New York, N.Y. 10020. The module incorporates three

series-connected thermionic converters which operate in a single vacuum area with a single cesium reservoir. It was designed to convert nuclear heat directly into electricity. Heat from the nuclear reactor is transferred to the converter module by means of a loop containing liquid metal such as lithium. During a recent test of the 3-unit module a stable power output of over 1 w/sq cm of emitter area was obtained at an emitter temperature of 1500 K. The power output of the module is 60 w at 0.84 v. A new insulation technique provides electrical insulation between the tube containing the liquid lithium and the converter's emitter, and at the same time provides a high degree of thermal conductivity so that there is virtually no heat loss from the liquid lithium to the emitter.

The development was sponsored by the U.S. Air Force Aero Propulsion Laboratory of the Wright-Patterson Air Force Base, Dayton, Ohio.

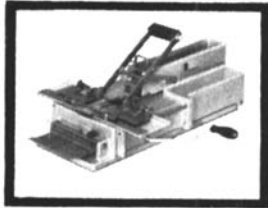
A General Electric development called the Gallium-Arsenide Diode Data Transmission System, which uses infrared light instead of radio waves, was originally designed to relieve the airwaves congestion at missile test ranges but will be used by ABC-TV to augment transmission of picture and sound from remote locations and will be used by NASA for experimental purposes at its Huntsville, Ala., site. The new system has provided up to 12 mc of bandwidth; however, the gallium arsenide diode has a theoretical bandwidth in the gigacycle range. The size of the equipment is small, the optical antennas (lenses) being only a few inches in diameter.

A new double-shield cable designed to replace present solid- and braid-shielded television transmission cable has been introduced by Amphenol Cable, a division of Amphenol-Borg Electronics Corp., 6235 S. Harlem Ave., Chicago, Ill. The new cable, designated 621-147, is designed primarily for the transmission of subscriber-paid television programming and for community-cable services. It has a solid copper center conductor insulated with a polyethylene-foam dielectric, over which a thin copper foil has been longitudinally wrapped. A standard copper-wire braid covers the foil, and the entire cable is jacketed in black polyvinyl chloride.

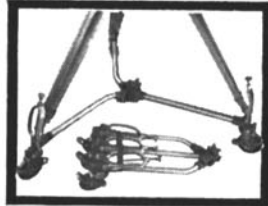
Two new visual-simulator tubes have been announced by Westinghouse Electronic Tube Division, Elmira, N.Y. The WX-4952, with electrostatic focusing and deflection, simulates the electrostatic vidicon and Recorderchon. The WX-4957, with magnetic focusing and deflection, simulates the magnetic vidicon and Recorderchon. Each simulator tube uses the same electron gun as its counterpart, and differs primarily in having a phosphor screen for image display instead of a signal electrode. The tubes are used for preliminary adjustments such as centering, focusing, adjusting scan size and linearity. Both tubes can be supplied with either 4-w or 1-w heaters and 6½ in. long with a phosphor flange of 1½ in.

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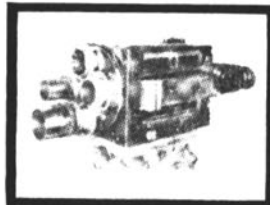
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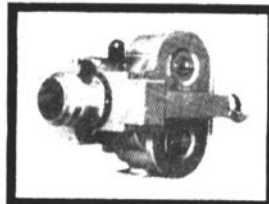
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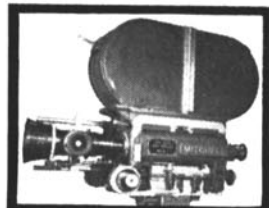
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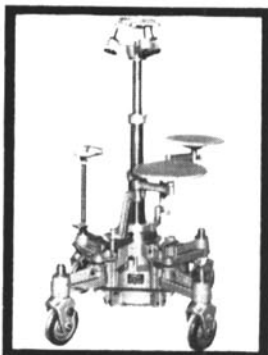


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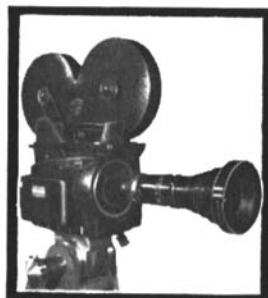


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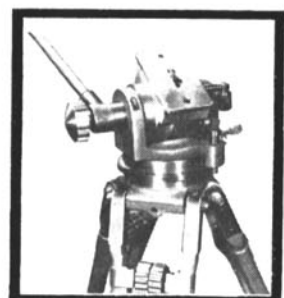
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ages, low-saturation voltages, high power-handling capability and high switching speed over a wide range of collector currents has been announced by Commercial Engineering, RCA Electronic Components and Devices, Harrison, N.J. The device, designated 2N3512, is a double-diffused epitaxial planar transistor developed specifically for core-driver and line-driver service in high-performance data-processing equipment, and in other critical industrial applications requiring considerable output power, the announcement stated.

A sealed 0.150 diameter telescopic precision glass tubular trimmer capacitor, the Novascal trimmer, has been announced by the Novatron Corp., 22 Lynn Place, Valley Stream, N.Y. 11580. The device has been designed for either panel or printed circuit board mounting. A specially designed torque mechanism is said to eliminate backlash and to prevent electrode movement under conditions of shock and vibration without use of springs or tension rings. The trimmer is available in five sizes. The shortest, with an overall length of 0.53

in., has a range of 0.5 to 2.5 pf. The longest, 1.65 in., has a range of 0.5 to 16 pf.

An all solid state, general purpose, single-gun recording storage tube system called the Model 221 Electrostore has been developed by Image Instruments, Inc., 2300 Washington St., Newton Lower Falls, Mass. 02162. The unit has an 800-kc deflection bandwidth and is capable of resolving 1000 lines across the diameter of the stored picture. In radar, television and medical electronics the device serves as

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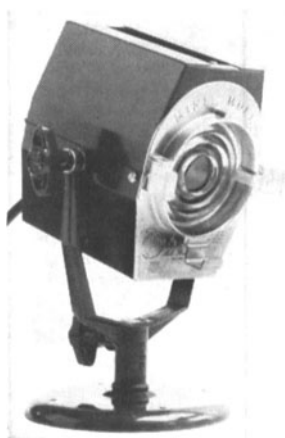
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The Combifinder, a new Tewe Director's Zoom Range Finder, has been announced by Birns & Sawyer Cine Equipment Co., Inc., 6424 Santa Monica Blvd., Hollywood, Calif. 90038. Zoom ranges for the new range finder are 8mm to 75mm for the 16mm format and 17.5mm to 100mm for the 35mm format. The price is \$109.50, complete with leather case and neck chain.

A method of remote and variable dimming suitable for schools, churches, little theaters, and other nonprofessional applications has been announced by UltrAudio Products, 6571A Santa Monica Blvd., Los Angeles, Calif. 90038. The device, called SpectacuLite, controls the lights by means of a self-illuminated remote control panel and does not require a conduit between the remote and main power units. The lights can also be preset. The device is designed to control up to ten 600-w lights from as far away as 1,000 ft. Each circuit is individually fused and a master power breaker is provided. It is priced at under \$1,000.



Among new products recently announced by Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood, Calif. 90038, are a miniaturized lamp called the Mini-Mole; a 3200 K lamp developed by General Electric Co., and the Type 416B Blue MacBeth Whiterlite Glass Filter, which is designed for convenient snap-in mounting within the M-R Type Tener Solarspot Lamp Head to convert its tungsten filament light to daylight quality. The Mini-Mole uses any of six standard globes from 50 w to 200 w and weighs only 3½ lb. It is designed for use as a camera light, for close-up lighting, for highlights, and for placement where larger lamps cannot be concealed. It is priced at \$28.50. The M-R Type 416 Tener has been designed to house the General Electric lamp, which has a rated life of 150 hr. It is priced at \$115.

A six-stage ultrasonic cleaning system for lenses has been developed by the Powertron Division of Giannini Controls Corp., 1600 S. Mountain Ave., Duarte, Calif. (The Powertron Division is located in Plainview,

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