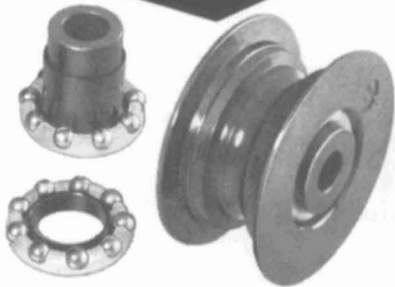
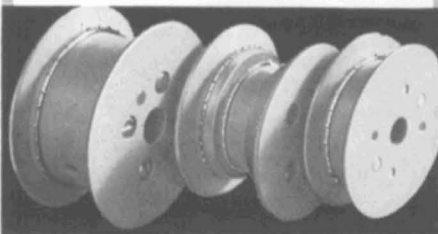


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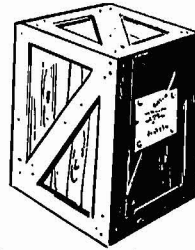
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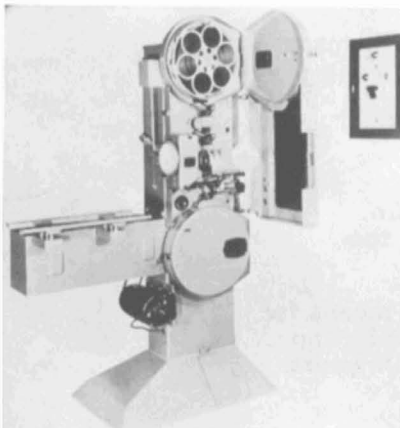
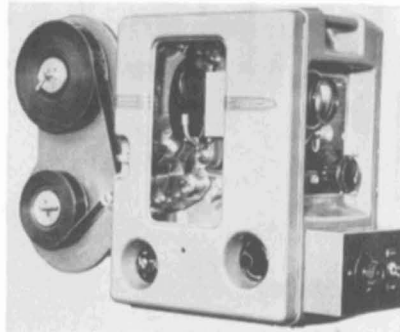
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.



Three new Norelco special purpose projectors and a line of projection lenses have been announced by North American Philips Co., 100 E. 42 St., New York, N.Y. 10017. They will be introduced at the SMPTE Technical Conference and Exhibit at Los Angeles, March 28 - April 2. The projectors are available from Magna-Tech Electronic Co., 630 Ninth Ave., New York, N.Y. 10036.

Displayed will be a stop-motion projector, designed especially for technical conferences and x-ray and medical analysis, operating at 24 frames/sec to single-frame stop-motion; a 35mm professional-type projector that weighs 67 (top cut) lb; and a special purpose FP-20 modified 35mm projector for use in sound mixing studios and screening rooms (bot. cut). The unit operates forward and reverse in sync or interlock from local or remote control. The projector includes looping rollers and high-speed rewind. A special model of this

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projector is also available for TV scanning with simultaneous screen projection. Magna-Tech is also offering an all-electronic interlocked frame and footage read-out counter featuring automatic preset stops for use with this projector.

Also exhibited will be a complete line of the Isco lenses distributed in the United States by Norelco. The lenses range from the T-Kiptagon 70mm projection lenses to the Super Kiptar super fast 35mm lenses.

System 35, a building block cinematographic system built around the Mitchell Mark II 35mm Studio Reflex Camera, has been developed by Mitchell Camera Corp., 666 W. Harvard St., Glendale, Calif. 91209. Under development for about five years, the system utilizes closed-circuit television to provide for electronic view-finding, remote monitoring and video taping for instant playback. Basic component of the system is the Mark II camera installed in its sound blimp. When used as part of System 35, the standard blimp door is replaced by an electronic door containing the vidicon camera which scans the reflex image and displays it on an electronic viewfinder and video monitors. The electronic viewfinder, fed directly from the vidicon camera, provides the capability (reported to be a "first") of being viewed in any position, either on or off the camera. A deanamorphosing switch, which electronically compensates for the squeezing effect of anamorphic lenses, is incorporated. The system also includes a previewer which consists of a portable, compact video-tape recorder with slow-motion and stop-motion capability. The building block approach makes possible the addition of other electronic devices, such as special-effects amplifiers. Estimated cost of the basic system, including three fully equipped cameras and the master console with tape recorder and monitors, is around \$125,000.

A detailed description of the system will be presented at the 97th SMPTE Technical Conference in Los Angeles by Edmund M. DiGiulio, Director of Engineering, Mitchell Camera Corp., in a paper entitled "A 35mm Reflex Camera System Incorporating Video Monitoring and Recording" (see the Advance Program in earlier pages of this issue of the *Journal* for the abstract).

An automatic-threading 16mm sound projector, the Model 566, has been announced by Bell & Howell Co., 7100 McCormick Rd., Chicago, Ill. 60645. The

GLEN



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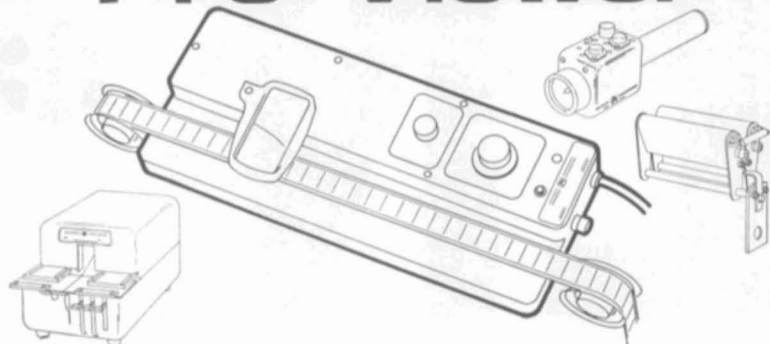
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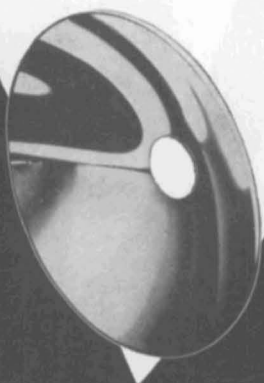
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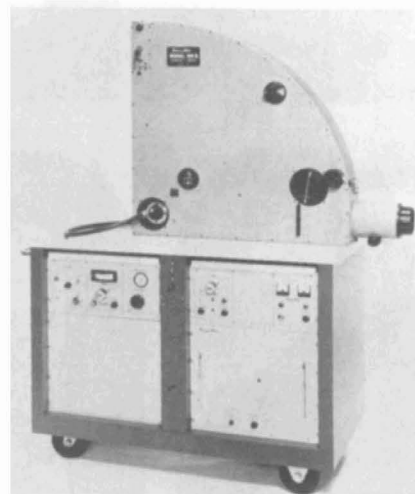
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projector incorporates a 10-w amplifier, said to be virtually free of harmonic distortion, and a 12-in. Orchestron II speaker. The amplifier has a transformer-type power supply. The projector is constructed of lightweight magnesium, aluminum and glass fiber and weighs 35 lb, 6 oz. Controls are arranged on a vertical panel. Features include a 2-in. $f/1.4$ lens and a 1000-w projection lamp. The projector-speaker combination is said to produce high-fidelity sound in even the largest meeting room or auditorium. It is priced at about \$795.

A new Movie-Mite projector, the LV-250, has been announced by Movie-Mite Corp., 8811 Puritan Ave., Detroit, Mich. 48238. Designed for nontheatrical use, it is similar to the firm's earlier models except for an improved lighting system utilizing the 250-w Tru-Flector lamp. Operated at a medium setting the transformer-operated lamp provides a light output that can more than equal the performance of a 750-w lamp, the announcement stated. The projector measures 8 by 12½ by 15½ in. and weighs 32 lb. It operates on a-c only. The price is \$349.50.

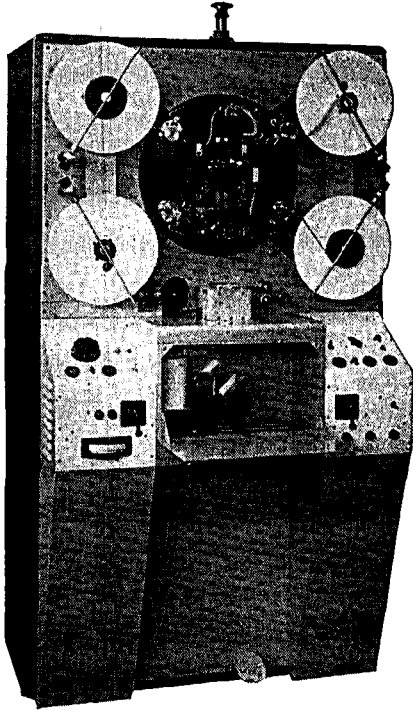
A kit containing supplies for making transparencies for overhead projectors has been announced by Charles Beseler Co., 219 S. 18 St., East Orange, N.J. The kit contains mechanical pencils and transparent leads in various colors, lettering pens, colored inks, a lettering guide and a number of other items to be used in making the transparencies. Acetate sheets are included which are clear and transparent to permit making tracings. The kit is priced at \$60.



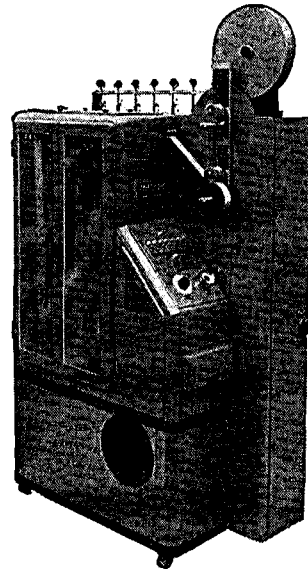
A high-resolution camera, introduced by Beckman & Whitley, Inc., 933 E. San Carlos Ave., San Carlos, Calif., is said to record at rates from 250,000 to 20,300,000 pictures/sec. Called the Model 189B Synchronized Framing Camera, its basic design is similar to the firm's Model 189A, but the new camera is reported to be four times faster and to provide almost five times as many pictures as the earlier model. It records 120 pictures, each resolved to 32 lines/mm with exposure times as short as 50 nanosec. The optics are designed so that there will be no blind time between frames and the camera will record all of the event which occurs during the recording period. Three

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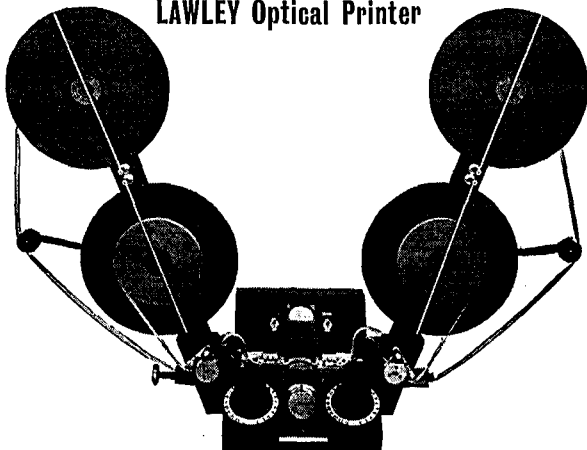
LAWLEY MOTION PICTURE EQUIPMENT



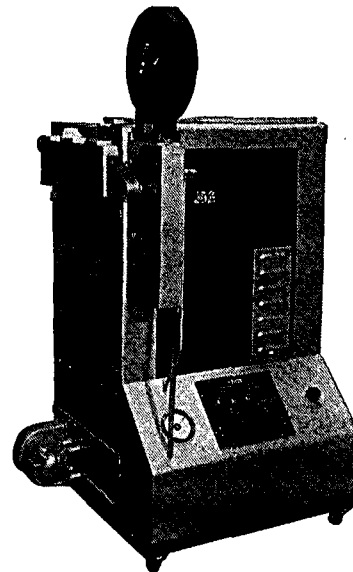
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different interchangeable rotating mirrors and four different interchangeable objective lenses are offered with the camera to make it possible to record at a wide range of speeds and to provide great flexibility in the selection of object distance and magnification. For portable use the system, including camera, light source, controls and pulse units, is available integrated in a mobile instrument cart. For remote operation or permanent installation the components can be provided as separate units.

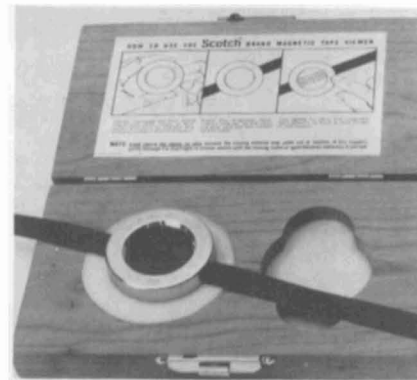
The Eastman Tri-X Reversal Film, Type 7278, has been announced by the Motion Picture and Education Markets Div., Eastman Kodak Co., Rochester, N.Y. 14650. It is a 16mm black-and-white motion-picture film with a special anti-halation undercoat for work in extreme light contrasts. The film is said to retain the same high-speed characteristics as the current Eastman Tri-X Reversal Film it succeeds. It is expected to be particularly useful to television news and sports cinematographers when filming scenes in which bright light sources appear in the field of view and also to industrial motion-picture photographers filming studies in the available light of factories and plants. Like the current Type 7278, the new film can be processed to a negative image and it requires no changes in the processing solutions or handling practices presently being used for the current film. The new film is said to feature considerable reductions in graininess with no sacrifice in speed or other characteristics.



The Bolex Zoom Reflex P-4, a fully automatic, 8mm zoom movie camera, has been announced by Paillard Inc., 1900 Lower Rd., Linden, N.J. 07036. Incorporating a 13-element Som Berthiot Pan Cinor $f/1.9$ zoom lens, the camera can zoom from 9mm for wide-angle to 36mm for telephoto. The diaphragm stops down to $f/16$. The viewfinder contains 10 lens elements to provide a coincident image range-finding system. Two images are seen and when superimposed to make one sharp image, the scene is in precise focus. Other features include variable shutter for fades and exposure control and film rewind with audible frame counter for lap dissolves. The camera is priced at \$289.50.



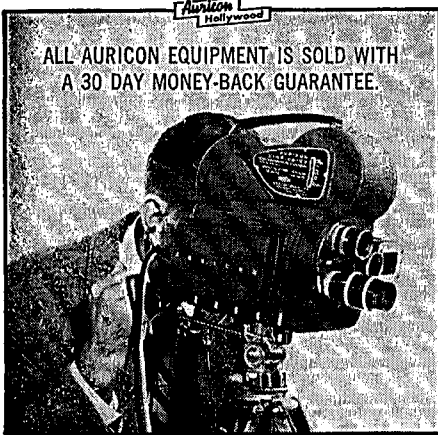
The Quantalog TD-200 Series of color film densitometers has been announced by Macbeth Corp., P.O. Box 950, Newburgh, N.Y. Three separate models are included in the series. The TD-203, designed for quality control of color reversal processing, is equipped with a set of Status A-58 (red, green, blue) Eastman Kodak filters. The TD-204 contains Status M filters and is for color negative processing control. The TD-206 is provided with Infrared and Wratten #106 visual filters for infrared and visual soundtrack measurements. The densitometers are manufactured on special order and each instrument is individually calibrated.



The "Scotch" Brand Viewer No. 600, developed by the 3M Company, 2501 Hudson Rd., St. Paul, Minn. 55119, for the purpose of making visible the data recorded on magnetic tape without damaging the tape and without the use of exterior chemicals has been announced by the firm as being also useful for magnetic tape editing. In editing, the viewer is placed on top of the film where it is said to expose synchronizing pulses, sound cues and even the highest of wavelengths in speech, sound effect and music tracks. The viewer is priced at \$50.

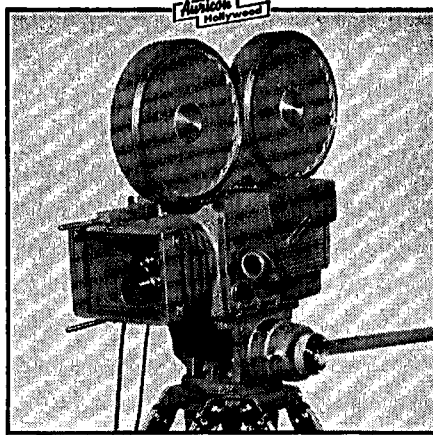
A new line of closed-circuit television equipment designed to be sold at moderate cost has been announced by Radio Corp. of America. Basic product in the new line is a manual-focus, random-interlace television camera (Type PK-301) complete in a self-contained unit. A type 8134 electrostatic focus, magnetic deflection vidicon tube is factory installed. The camera operates from a power source of 117 v, 50 to 400 cycles, or 12-v d-c. The video output is a black-negative 75-ohm unbalanced signal suitable for

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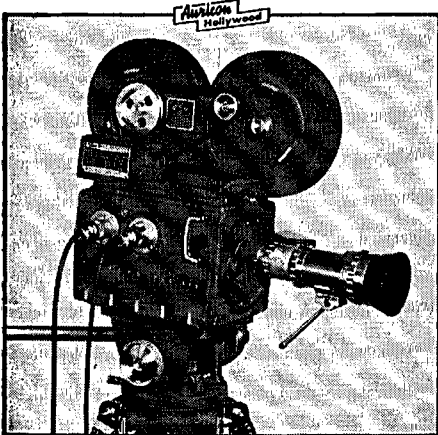
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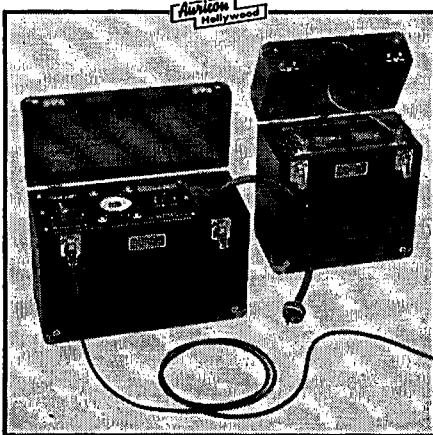
"AURICON PRO-600" 16mm Optical Sound-On-Film Camera.
 ★ 600 ft. film capacity for 16½ minutes of recording. ★ \$1871.00 (and up) with 30 day money-back guarantee.



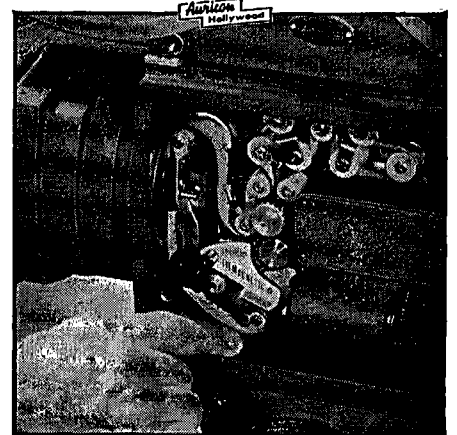
"SUPER 1200" 16mm Optical Sound-On-Film Camera.
 ★ 1200 ft. film capacity for 33 minutes of recording. ★ \$5667.00 (and up) complete for "High-Fidelity" Talking Pictures.



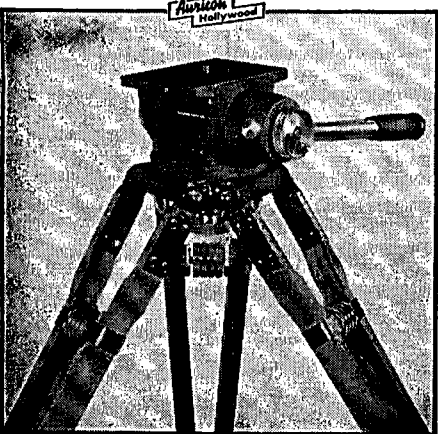
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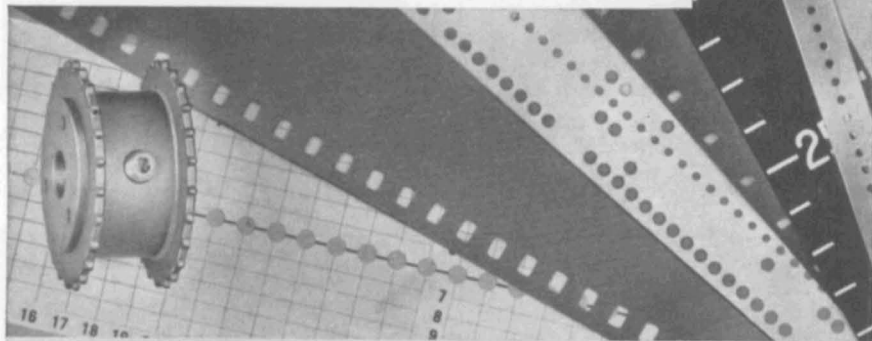
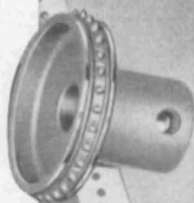
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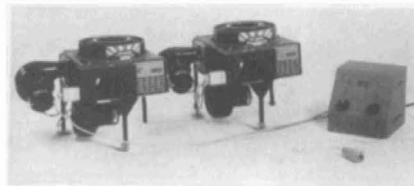


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use with any standard video monitor. The camera is completely transistorized and all circuitry is on plug-in modules. High-voltage power supply and vidicon yoke assembly are also plug-in units to facilitate maintenance. The 1-in. vidicon, originally developed by RCA for use in spacecraft TV systems, is used in the PK-301 to produce pictures of unusual clarity. The camera is available in 16 different configurations, such as battery operation and remote control. Dimensions are approximately 6 by 6 by 10 in. and the camera weighs 16 lb. It is priced at approximately \$2,500.



A kit called the **Silent Director Automatic Dissolve**, for use with a pair of Kodak Carousel slide projectors, and an adaptation of the Carousel to permit use of a 1200-w incandescent light have been announced by Show Engineers, Steve Karkula Enterprises, Inc., Box 626, Route 17, Tuxedo, N.Y. 10987. The adaptation, which consists mainly of changing the optics of an existing Carousel to accommodate the more powerful light source, makes it possible to use the modified projector, called the Carousel 1200 in large auditoriums. The projector can thus be used for industrial shows and other large gatherings as well as for classrooms and in small auditoriums. The Carousel 1200 modification is priced at \$120.

The automatic dissolve kit is used for effects such as fade-in and fade-out, changing the speed of the slides, superimposing one slide on the other, etc. The kit is priced at \$600. The illustration shows a pair of the modified projectors combined with the automatic dissolve and a control box.



A motor drive for the 12-120 Angenieux zoom lens based on a specially designed, custom wound d-c motor has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010. The motor drive is designed to be readily mounted without requiring any machining of the zoom lens. It provides

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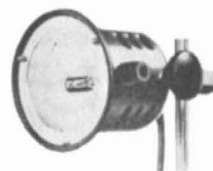
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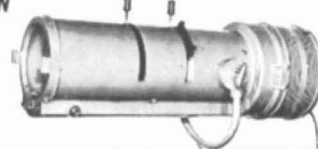
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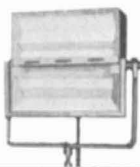
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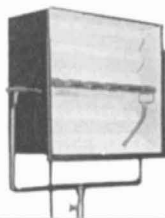
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500 w.



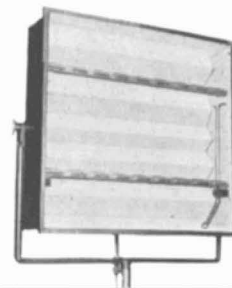
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1000 w.



Order Code:
LQS-20
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2000 w.

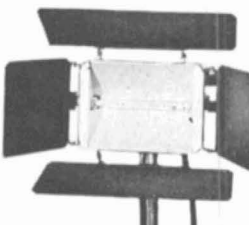
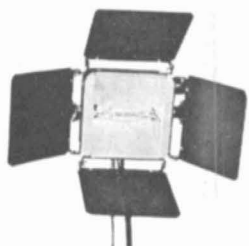


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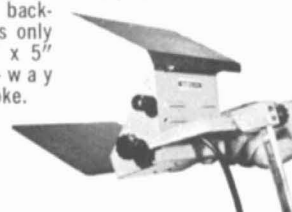
Order Code:
LQH10-0



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BACK-LITE

Order Code:
LQB/B



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- 1000 w. 3200°K, 500 hrs. B5-32 (clear); B5-32F (frosted)
- 650 w. 3200°K, 125 hrs. B6-32 (clear); B6-32F (frosted)
- 650 w. 3400°K, 30 hrs. B6-34 (clear); B6-34F (frosted)

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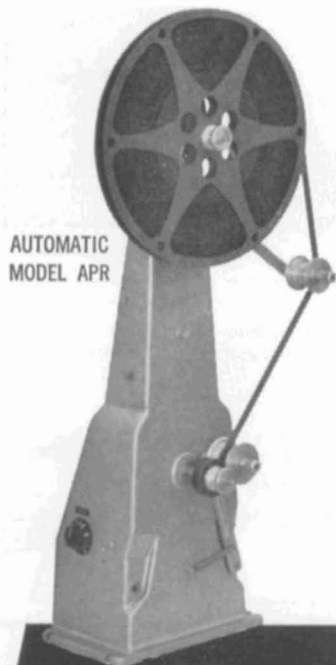
versatility

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amp. A slip clutch and a warning light are
built into the system to provide smooth
starts and stops and maximum motor
protection. The motor drive, complete
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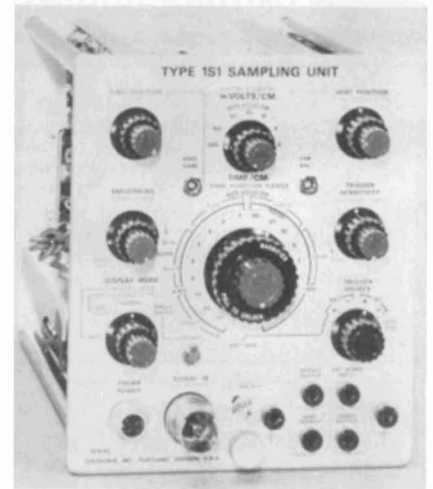
An omnidirectional dynamic microphone
designed especially for applications in
which very small size and excellent voice
characteristics are required has been announced by Shure Brothers, Inc., 222
Hartrey Ave., Evanston, Ill. The micro-
phone, called the Shure Model 571 is 2½
in. long and ¾ in. in diameter. It is a moving
coil, dynamic type with an essentially flat
frequency response from 50 to 10,000 cps.
It has a single impedance to match properly
any low-impedance input from 50 to 250
ohms. Output level is -60.5 db (0 db = 1
mw with 10 microbars). The microphone is
priced at \$95.

A new magnetic tape, called Densimag,
has been developed by Whittaker Corp.,
9229 Sunset Blvd., Los Angeles, Calif.
90069, to withstand temperatures up to
600 F for prolonged periods of time. The
tape has a metallic magnetic coating over a
nonmagnetic stainless-steel substrate. It
was originally developed for a high-per-
formance recorder application. Its residual
magnetic induction or magnetic intensity is
approximately 7500 gauss. Tensile strength
of tape is that of the stainless-steel substrate
and can be selected from the range of

100,000 to 200,000 psi. It is available in
widths varying from ¼ in. to 2 in.

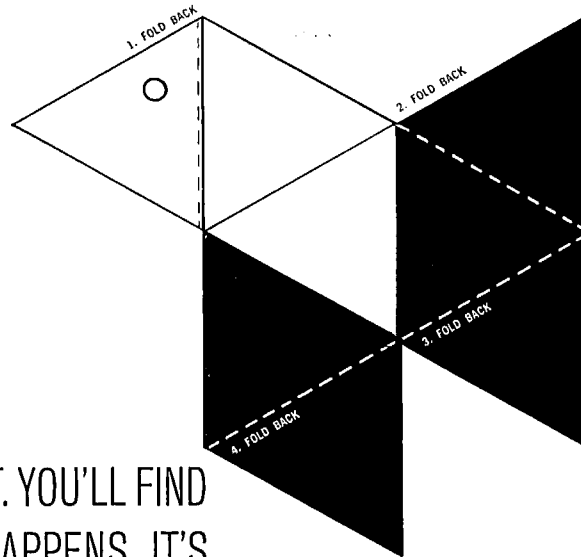
**An automatic, calibrated replenishment
system** designed for easy installation has
been announced by the Oscar Fisher Co.,
P.O. Box 2305, Newburgh, N.Y. The sys-
tem is said to be usable with all types of
automatic and manual processing equip-
ment and for color, x-ray, litho and all
other black-and-white processes. It is elec-
trically operated with solenoid valves and
flow-raters, with and without a timer, and
may be mounted anywhere and merely
connected to where the solutions are to be
used. All parts are encased in a corrosion-
proof type 316L stainless-steel container.

A Narrow Beam Adapter/Laser Attenuator
designed for use with the 580 Radi-
ometer System has been announced by
Edgerton, Germeshausen & Grier, Inc., 170
Brookline Ave., Boston, Mass. 02215. At-
tached to the radiometer detector head, the
attenuator is used to monitor the output of
a solid, gas, or diode laser to measure
energy, power and pulse-shape character-
istics. Attached to the radiometer system's
indicator unit, the attenuator provides
direct meter readout of average power of
steady state light and integrated energy of
pulsed light. When used with an external
oscilloscope, measurement can be made of
peak power and waveshape of pulses having
rise times down to 1 nanosec.

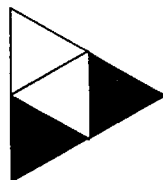


A new plug-in unit, the Type 1S1, de-
signed to convert Tektronix oscilloscopes to
complete d-c to 1 gigacycle sampling in-
struments, has been announced by Tek-
tronix, Inc., P.O. Box 500, Beaverton, Ore.
97005. Internal triggering is featured, to-
gether with a risetime of 0.35 nanosec, with
no need for external delay lines or pre-
triggers. Triggering capability extends
through 1 gigacycle. Calibrated sweep
speeds range from 100 psec/cm to 50
µsec/cm. A device called a Time Magnifier
is included to allow any part of the display
to be magnified up to 100× horizontally
without reducing displayed dot intensity.
Actual sweep speed, even when magnified is
read out directly on a single knob. Cali-
brated vertical sensitivities range from
2 mv/cm to 200 mv/cm. Noise in the dis-
play is said to be less than 1 mv and can be
reduced by a "smoothing" control. A d-c

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offset control permits observation of millivolt signals in the presence of up to ± 1 -v input levels. The unit is to be available in the spring. The price has not yet been announced.

The firm also announced a portable (20-lb) oscilloscope, Type 422. Designed for test instrumentation where space is limited, its dimensions are 6 $\frac{1}{2}$ in. high, 8 $\frac{1}{2}$ in. wide and 16 in. deep. Bandwidth of d-c to 15 mc, sensitivity to 10 mv/div, dual trace operation and sharp, bright displays are said to provide laboratory oscilloscope performance for field-site applications. A 4-in. cathode-ray tube with illuminated, internal graticule provides 8.2 sq in. of display area. Four operating modes include each channel singly, alternate or chopped electronic

switching between channels, or both channels added algebraically. In the added algebraically mode, Channel 2 can be inverted for differential operation. Price of the Type 422 is \$1325. It is expected to be available during the second quarter of 1965.

A miniaturized generator of both sine and square waves has been announced by Waveforms, Inc., 333 6th Ave., New York, N.Y. 10014. Designated the 511A the instrument weighs 5 lb and is 6 in. high 4 $\frac{1}{2}$ in. wide and 6 in. deep. The frequency range is 10 c to 12 mc sine and 10 c to 120 kc square. A switch on the front panel permits selection of sine or square waves. Frequency reading is on a 3 $\frac{1}{2}$ -in. dial in

conjunction with a decade range switch. Frequency accuracy is said to be $\pm 3\%$. The generator is priced at \$700. A rack mounted model is priced at \$720.

A new item in the line of spectrum analyzer plug-in units called the Type L-10A has been announced by Tektronix, Inc., P.O. Box 500, Beaverton, Ore. 97005. The new unit covers the frequency range of 1 mc to 36 mc and fits all Tektronix oscilloscopes that accept letter-series or 1-series plug-ins. The combination provides calibrated dispersion with optimized cross-coupled resolution to simplify operation, yet each control can be operated independently. The unit will be available during the second quarter of 1965. It will be priced at \$1,200.

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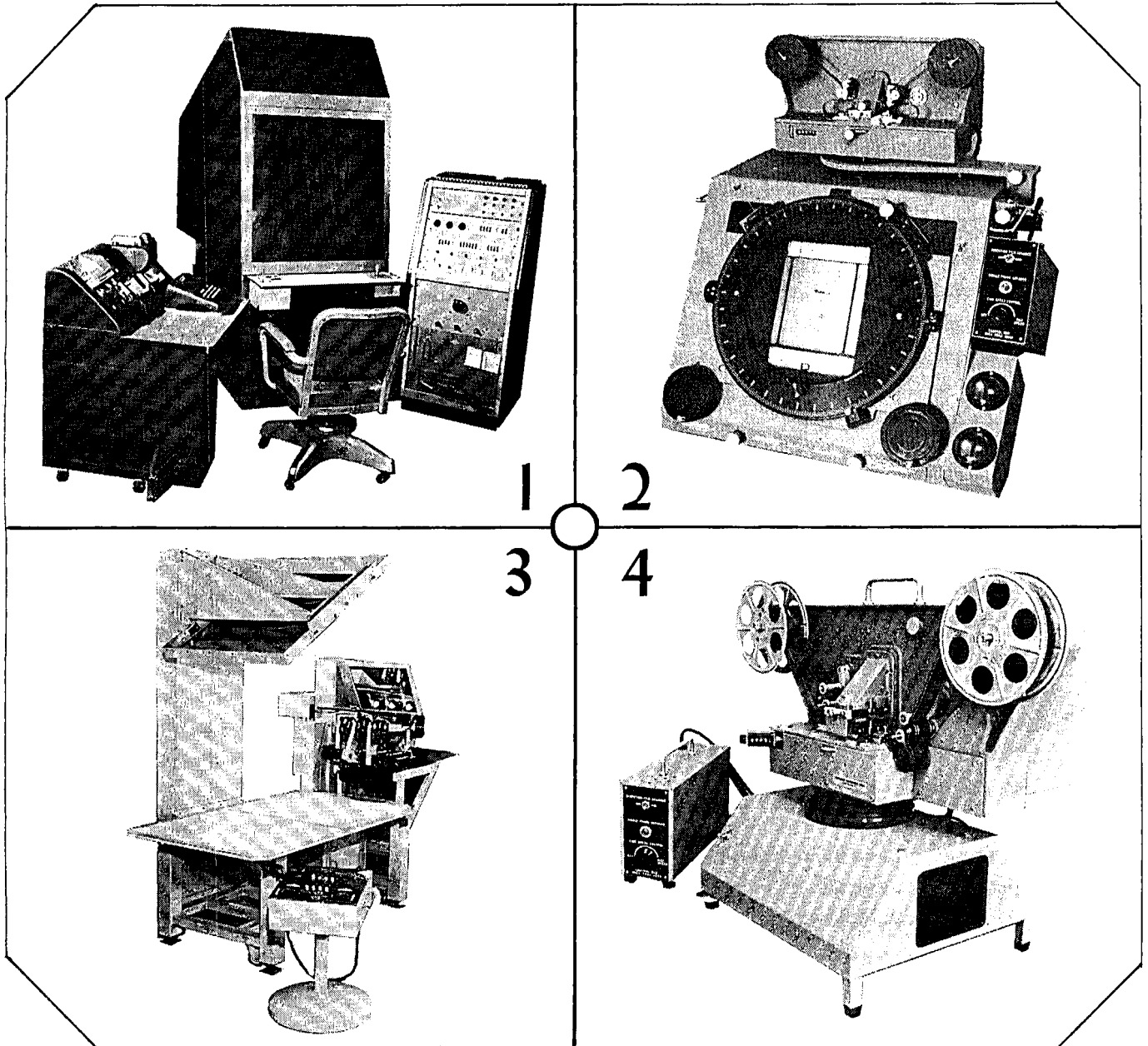
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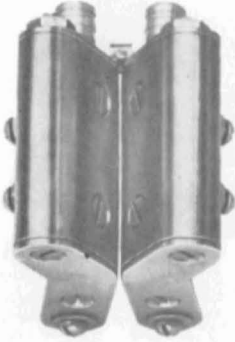
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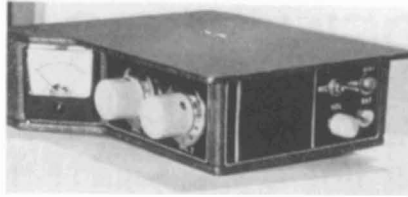
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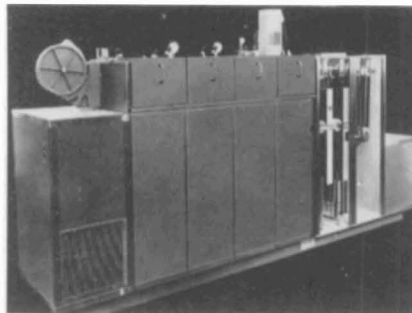
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The **Transist-O-Sound Magnetic Amplifier**, a 2½-lb amplifier designed or use with Auricon cameras, has been announced by S.O.S. Photo-Cine-Optics, Inc., 387 Park Ave. South, New York, N.Y. 10016. The amplifier is powered by a single miniaturized battery. The response is flat from 20 to 15,000 cps within 2 db. The built-in speaker is disconnected when earphones are used. A limiter circuit is standard equipment. The firm's Transist-O-Sound Optical Amplifier has been available for a number of years.

A **d-c to d-c inverter** has been developed by the Torotron Corp., Division of Douglas Microwave Co., 256 E. 3 St., Mt. Vernon, N.Y. 10550. Called the Model TS-1A, it measures 1½ by 1½ by 1⅝ in. mounted with two 6-32 studs enclosed in Mu-metal case, usable for d-c to d-c conversion (input 12-v d-c or 24-v d-c) output up to 1500-v d-c. Full wave output is unfiltered, and the power output is 10 w. It is priced at about \$25.



A new **16/35mm negative/positive processor** said to be capable of exceptionally high speeds, i.e., 200 ft/min for 16mm and 100 ft/min for 16/35mm, has been introduced by Houston Fearless Corp., Westwood Div., 11801 West Olympic Blvd., Los Angeles, Calif. 90064. Called the Spray Labmaster, the new processor achieves rapid processing through high-intensity spray impingement of the developer, fixer and wash, together with impingement drying. Spray tips in the three spray cabinets impinge solution on the film 250 times to assure uniform processing under conditions of speed and temperature. The processor is designed for daylight or darkroom operation. It has light-tight removable covers and includes magazine or darkroom loading station, load accumulator, spray developer, spray fixer, spray washer, impingement drier, take-up accumulator and take-up station with dual spindles. It is composed of basic interchangeable modules mounted together on a base frame.

Continuous and coherent microwave oscillations of substantial power have been generated in a semiconductor, according to an announcement by Bell Telephone Laboratories, 463 West St., New York, N.Y. 10014. During recent studies conducted at the Laboratories, CW oscillations have

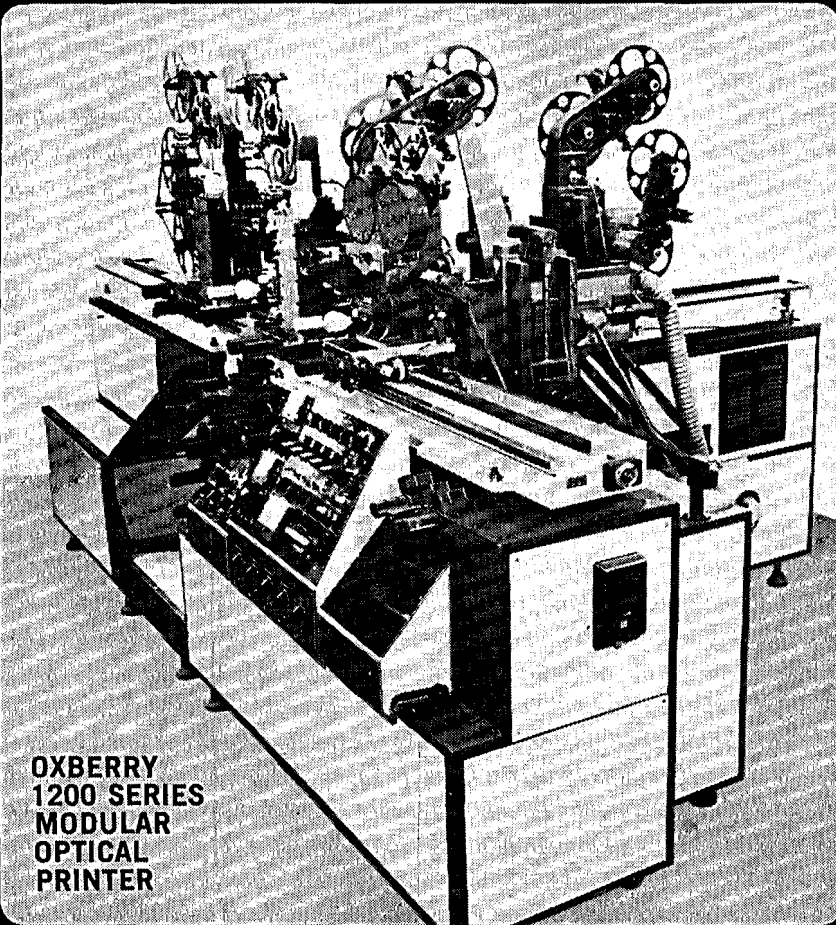
been achieved in gallium arsenide at a frequency of 4.35 gigacycles and a power output of 15.5 mw. The device may eventually be used as an oscillator in a microwave communications systems, the announcement stated. The gallium arsenide used in the studies is an n-type, high-resistivity material measuring 50 by 250 by 250 microns. The material is placed in a tunable microwave cavity and generates CW oscillations when a field intensity greater than 3000 v/cm is applied to it. The generated wave is relatively free of random modulation, having a line width of less than 10 kc at 4.35 gigacycles. Pulsed operation of bulk gallium arsenide has been reported previously by IBM. The achievement of continuous-wave operation was made possible by (1) selecting the proper high-resistivity semiconductor (2) improving the quality of electrical contacts on the semiconductor, and (3) improving the conduction and convection of the heat away from the semiconductor and into a moderately-cooled heat sink during operation.

The **Tymeter** is a low-cost digital readout clock movement which can be installed in any suitable equipment. It is a product of Tymeter Electronics, Pennwood Numechron Co., 7249 Frankstown Ave., Pittsburgh, Pa 15208. Digits on the clock are ⅝ in. high and can be individually reset. The unit is 3 in. high, 5½ in. wide, 3½ in. deep and weighs 2 lb.

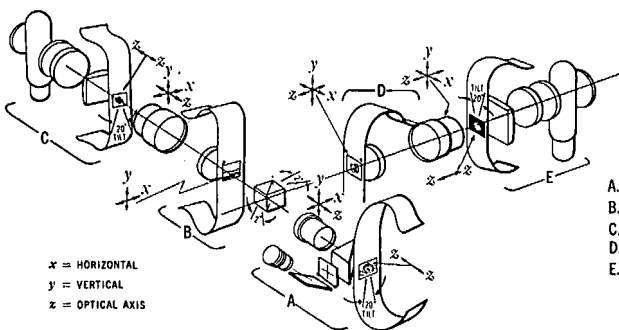
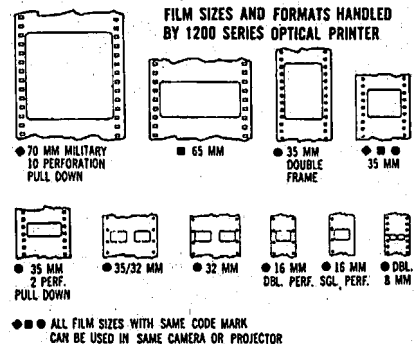


The **Amega M-3**, a portable (22-lb) synchronous sprocketed 16mm magnetic film recorder, said to achieve absolute lip-sync with any camera using a 60-cycle output generator or with cameras driven by synchronous motors, has been introduced by Amega Corp., 11817 Wicks St., Sun Valley, Calif. The camera pulse signal, amplified through the recorder's inverter, controls the exact speed of the synchronous motor. The recorder operates on rechargeable nickel-cadmium batteries which can be used without any external power source or frequency regulation. A built-in, 60-cycle transistorized frequency generator and a tuning fork are incorporated to keep the recorder at a constant frequency and accurate to a minimum of 0.0015%. The recorder operates with a salient pole synchronous 117-v, 60-cycle drive motor and two d-c motors, one for take-up and one for rewind. The recorder provides 10 min of continuous operation with 400 ft of 16mm magnetic film.

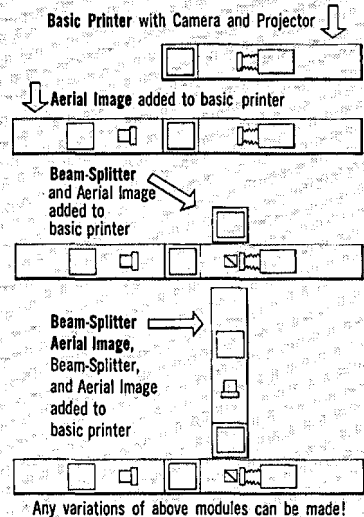
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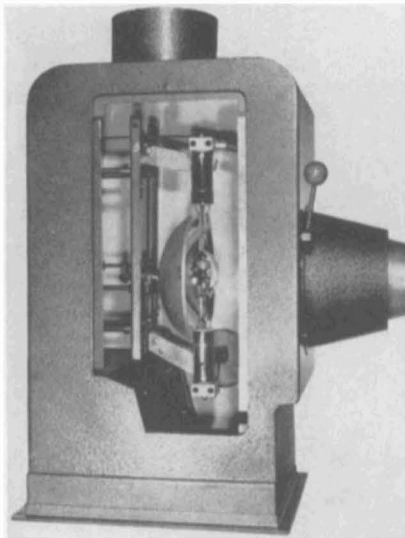
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The Graflex Messenger, a unit composed of a remote-controlled filmstrip projector, a 4-speed record player and amplifier, all contained in a single carrying case, has been announced by Graflex, Inc., 3750 Monroe Ave., Rochester, N.Y. 14603. The inside of the removable cover of the case serves as a screen measuring 12 in. by 16 in. Designed especially for use with sales presentations, operation is automatic once the record begins playing. The filmstrip advances from frame to frame and is synchronized with the recorded commentary by means of an inaudible signal. A "pause" control makes it possible to stop the record quickly and hold the picture on the screen. The unit, which includes an automatic film take-up, is priced at \$235.

A **viewfinder version of the Ampex 322 vidicon television camera** has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. Called the 322V, the unit consists of the 322 camera, a 7-in. high-intensity monitor, a 4-lens turret and provision for two-way communication and remote control. The 322V is designed for use with television recorders, such as the Ampex VR-1560 and VR 660 portable Videotape Recorders, and in closed-circuit and other special applications. The self-contained viewfinder is mounted directly above the basic camera. The 322V is priced at \$4,190. The 322 alone is priced at \$1,960.



The Cinemeccanica CX-900 Lamphouse has been announced by the Xctron Div. of Carbons, Inc., 400 Myrtle Ave., Boonton, N.J., as an addition to their line of xenon light sources. The lamphouse is a compact unit designed to operate with 16mm and 35mm projection systems. When operating at 45 to 50 amp, the lamphouse is said to deliver from 4,000 to 5,000 lm of high-intensity light. The unit includes a high-voltage starter, ventilating fan, 7-in. reflector and elapsed time meter. It is priced at \$695.

The new Tipro 35-Quad-16 Optical Printer announced by André Debrie is based on a new optical system recently developed and patented by the Paris firm. Printing four 16mm images for each exposure of the 35mm frame, the Quad-16 is reported to have an effective output of 120 ft/min of 16mm production. It prints on 35/16-3R stock which is later slit to 16mm. The machine will be available in two basic models. One, for black-and-white and subtractive color, utilizes the Debrie pocket band system of scene-to-scene light changes and color correction. The second, for additive color work controlled by the punched tape reader, uses modified American-made additive color lamphouses. The printer will be introduced at the SMPTE Technical Conference and Exhibit to be held in Los Angeles March 28-April 2. Additional information about the printer is available from Robert J. Harrington, General Manager of André Debrie of New York, 14-29 112th St., College Point 56, N.Y.



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