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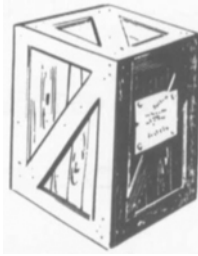
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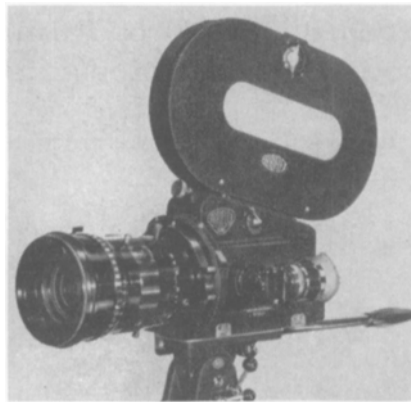
new products

(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.

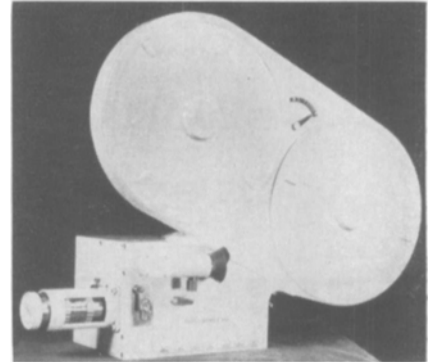
A new Arriflex-35 camera, Model IIB-T, has been designed by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010, for use in the Techniscope process. The new camera features 2-perforation pulldown, 9.5 X 22mm film aperture, and 200° shutter. Standard Arriflex 200- and 400-ft magazines can be used without modification.

The Techniscope process uses short focal length spherical lenses rather than anamorphic lenses. Certain economies are effected by use of this process, including a reported 50% saving on the cost of both original camera stock and processing. The same original negative can be used to make most of the generally used print formats. The new camera is priced at \$2,180.



The Arriflex-16Q camera introduced by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010, is a self-blipped camera designed primarily for use with zoom lenses. The film gate, pressure plate, pulldown and registration movement, objective lens and reflex finder are all locked together in a subassembly which, together with the tachometer and footage counter, is acoustically isolated from the outer camera body. The camera housing is equivalent to a lightweight blimp and the lens is enclosed in a separate blimp housing. Because the new camera is intended mainly for use with zoom lenses, the optical system differs from the other Arriflex-16 cameras in that the mirror-shutter is located farther forward from the finder aperture. This permits the ground glass to be located near the mirror, which simplifies the finder system, thus making it possible to show the etched

frame field within a larger ground-glass area. Finder magnification is 10X. The camera is equipped with only one lens socket, newly designed to hold securely the long, front-heavy zoom lenses. The camera is expected to be commercially available later this year or early in 1965. The price is expected to be around \$4,500. The unit will include a governor-controlled motor, 400-ft magazine and 12mm to 120mm Angenieux blimped zoom lens.



A 16mm rotary prism camera, the Model 16mm-1D, has been developed by Photo-Sonics, Inc., 820 S. Mariposa St., Burbank, Calif., for high-speed photography at 300 frames/sec to 3,000 frames/sec. The camera is capable of both start-stop operation and full-capacity run. Featured is a reflex viewer which permits viewing while the camera is loaded and provides a right-side-up image correct from left to right. A safety switch is incorporated within the reflex viewer that renders the camera inoperative while in the viewing position. Also included are timing lights, illuminated fiducial markers, 400-ft and 1200-ft capacity magazines, changeable rotary disk shutter, buckle and runout switches, drive motor with solid state servo loop control unit for variable speeds of 300 frames/sec to 3,000 frames/sec maintained within ±4% of the preselected frame rate with power requirements of 115 v a-c, 60 cycle. The camera, together with motor, take-up and 400-ft magazine, is 50 lb. It is priced at \$7,900.



A portable, instrumentation magnetic-tape recorder said to have a 100 to 10 to 1 time base expansion/contraction has been announced by Precision Instrument Co.,

Inspect every foot before it leaves your plant with the HFC High Speed Heavy Duty Inspection Projectors -- 16mm & 35mm models now available.

NEW

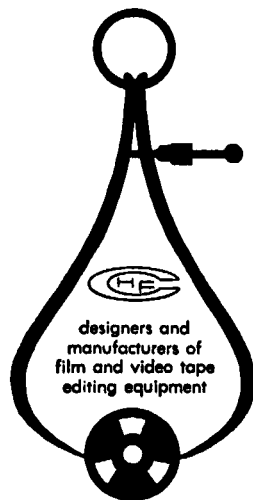
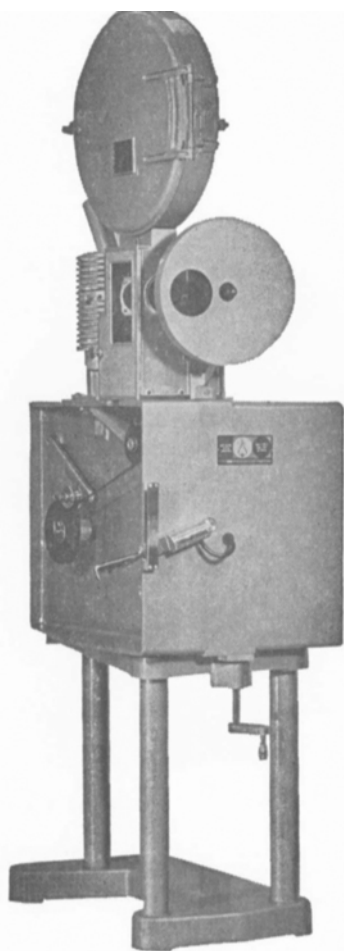
The projector is a converted front shutter Simplex with a two pin intermittent. 16mm or 35/32 film runs at a speed of 144 ft. per minute while 35mm film runs at a speed of 165 ft. per minute.

1. A variac controls the light intensity.
2. A 500 watt lamp is used for 16mm and a 1,000 watt for 35mm (a blower is used to cool the lamphouse).
3. A 2½ Inch projection lens is furnished with each unit.
4. A start-stop lever controls the power to the lamp and motor.
5. The magazine and take up core takes up to 3,000 ft. of film.
6. Upper guide rollers are made to handle the film from either direction of the feed reel.
7. A free wheeling take off flange is provided in the magazine.
8. A lamp near the takeup reel permits hand inspection of the film prior to takeup.

NOUVEAU

Le projecteur contient un obturateur Simplex antérieur transformé avec deux clavettes intermittente. Les films de 16mm ou 35/32 tournent avec une vitesse de 144 pieds à la minute, tandis que les films de 35mm tournent avec une vitesse de 165 pieds à la minute.

1. Le regulateur de voltage d'intensité d'éclairage.
2. La lampe de 500 watt est nécessaire pour les films de 16mm, et de 1000 watt, pour les films de 35mm (un ventilateur est mise pour rafraichir la chambre de la lampe).
3. L'objectif de 2½ est installé.
4. La manette de mise en marche et d'arrêt controle en meme temps la lampe et le moteur.
5. La boîte de films avec noyau peut contenir 3000 pieds du films.
6. La roue supérieure est construite de manière de recevoir le film dans les deux directions, nourrie par la bobine centrale.
7. Une roue est installée pour libérer rapidement le film de la boîte.
8. La lampe se trouve pres de la bobine recepteuse, et donne toute facilité pour inspecter le film a main dans le projecteur.



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NUOVO

Questi proiettori sono Simplex trasformati, otturatore al fronte, meccanismo di scatto di due punte. La velocità di proiezione in 16 o 35/32mm è di 144 piedi per minuto, e in 35mm, di 165 piedi per minuto.

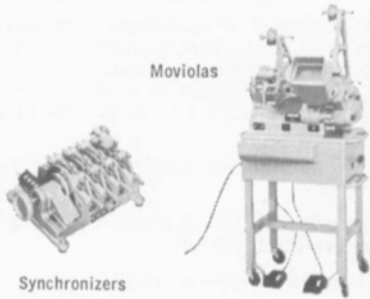
1. Controllo manuale della luminosità della lampada.
2. Lampada di 500 watt per 16mm e di 1000 watt per 35mm.
3. Obiettivo di proiezione di 2½".
4. Maniglia per controllo di motore e lampada di proiezione.
5. La cassetta porta pellicola può contenere 3000 piedi.
6. I rulli superiori di guida sono costruiti per operare con film proveniente di ambo i lati della bobina svolgitrice.
7. Disco con montatura sporgente nel magazzino.
8. Una lampadina illumina la bobina avvolgitrice, permettendo l'ispezione manuale del film prima che si avvolga nel proiettore.

NUEVO

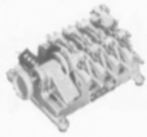
Esta máquina es un proyector simplex convertido, obturador al frente y movimiento intermitente a doble grifa. Para 16mm o 35/32mm, la velocidad fija de proyección es de 144 pies por minuto, para 35mm es de 165 pies por minuto.

1. Un reostato controla la intensidad de la lampara de proyección.
2. Para 16mm se usa una lampara de 500 watt, y una de 1000 watt para 35mm (un chorro de aire ventila las lámparas en ambos casos).
3. Cada unidad está provista de un lente de proyección de 2 pulgadas y media.
4. Una palanca de control opera el motor y la lampara simultáneamente.
5. Capacidad de proyección: rollos de hasta 3000'.
6. Los rodillos de guía superiores operan con la película en ambas direcciones.
7. La tapa de la bobina de carga es desenroscable.
8. Una lámpara ubicada junto a la bobina de toma permite la inspección manual de la película antes que se rebobine en la bobina superior del proyector.

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Sound
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Editing Tables



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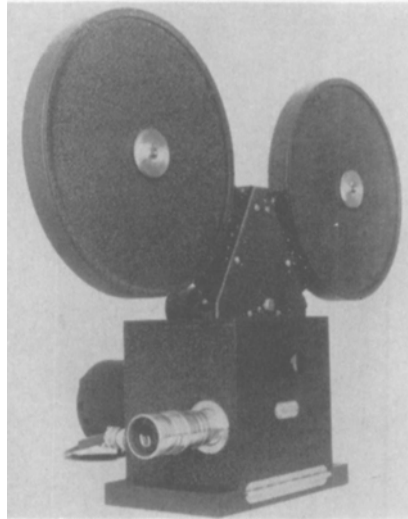


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3170 Porter Drive, Palo Alto, Calif. The recorder, called the PI-6100, is designed for economy and simplicity. It is 17 in. wide, weighs 60 lb and is reported to operate at temperatures up to 120 F and with 95% humidity. The recorder uses $\frac{1}{4}$ -in. tape and for long-term monitoring it can log 15 hr of data on 8 channels at 0.375 in./sec. Since it can record in both forward and reverse directions it can be set up to record 15 hr down one track, for another 15 hr on the second track in the reverse direction, and so on to extend long-term monitoring to 120 hr on 8 tracks on a single reel of tape. For graphic analysis, each 15-hr track of data, replayed at 37.5 in./sec, can be displayed on an oscilloscope in 8 min. Price range is from \$3,500 to \$9,000.



A 16mm kinescope recording camera which incorporates a new drive principle has been announced by D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif. The camera automatically converts from 30 TV frames/sec to 24 film frames/sec and is said to transport and fully stabilize the film in only 1.0 msec. Transport is fully synchronized with vertical blanking to eliminate shutter bar and lateral-motion image shearing. The camera with its control can be installed on any existing kinescope recording system and is automatically phase-locked to either 60-cps line or crystal oscillator vertical sync frequency. The equipment is said to offer special advantages in European countries, where the 50-cycle system causes substantial loss of video information in kinescope recording. The camera has no cams or claws and no wearing parts to require continual adjustment or replacement. The camera is approximately 8 in. long, 8 $\frac{3}{4}$ in. high and 6 $\frac{1}{2}$ in. wide without the lens, magazine and drive motor. Both 1,200-ft and 2,400-ft magazines are available. Double- or single-sound system may be used and the camera will accept any "C" mount lens.

A supplemental lens to increase the focal length of lenses in the Omnitel Telephoto lens series has been announced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood 38. The new lens, named Telebar, is a fluoride-coated two-element achromat lens which provides a sharp image. One end of the Telebar housing is threaded to fit the existing adapter

locking ring provided with the Omnitel telephoto lens. A rear locking ring on the housing secures the assembly to the Omnitel camera lens adapter. The supplemental lens is said to increase by 70% the focal range of the Omnitel lenses, which range from 300mm through 1000mm. The price is \$207.

A series of fast, large, folded lenses with very long focal lengths has been announced by the Electro-Optical Division of Perkin-Elmer Corp., Main Ave., Norwalk, Conn. Designed primarily for missile range photography, the lenses have a catadioptric design similar to that of the Perkin-Elmer ROTI Mk II long-range recording optical tracking instruments which have been used for several years on the Atlantic Missile Range. The lenses are available in focal lengths of from 80 in. to 200 in. and are capable of accommodating film formats up to 70mm.

A new lens, the Angenieux 20:1 zoom lens for 16mm cameras, has been announced by Evershed Power-Optics Ltd., 214 Harlequin Ave., Brentford, Middlesex, England, distributors in the United Kingdom. The new lens, which has a zoom range of 12mm to 240mm, has been designed to supplement the 10:1 range of Angenieux zoom lenses. It is priced at about £600.



The 3M Professional Mastering System introduced by 3M Company, 2501 Hudson Rd., St. Paul, Minn. 55119, is intended for use by professional recording studios to produce master tapes and is said to provide up to 15 db increase in range. The recording and playback system records two different tracks for each channel. As many as three separate channels may be recorded simultaneously. An automatic electronic switch transfers sound electronically from one track to another to avoid distortion during playback of the master tape. Also incorporated is a new tape transport mechanism for pulling magnetic tape past the recording heads so that the distortion caused by lack of constant tape speed is avoided. In recording, one track of each channel on the machine records the signal in the normal manner while the other track records signals of low volume. The machine uses $\frac{3}{4}$ -in. tape. Recording speed is 15 in./sec with 30 in./sec available for fast editing. Price is \$8,500.



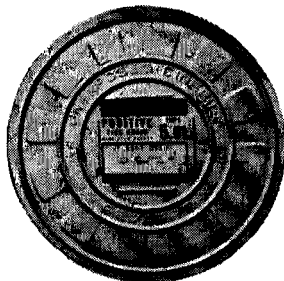
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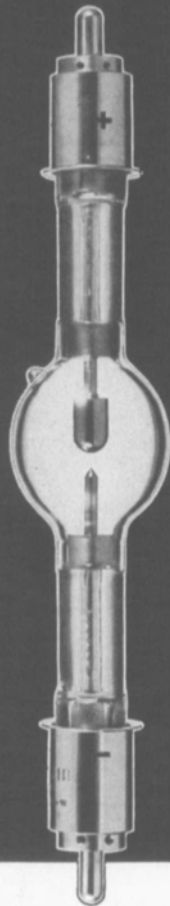


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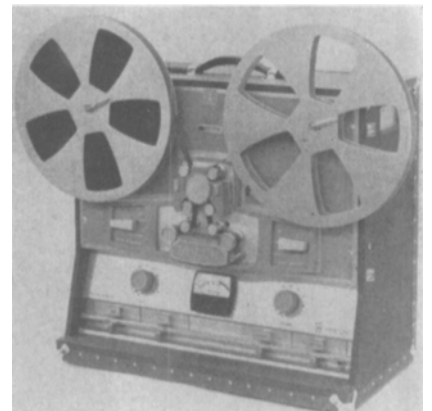


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A closed-circuit television camera designed to operate through home sets as well as through professional video monitors has been introduced by GBC America Corp., 89 Franklin St., New York, N.Y. 10013. The announcement emphasized particularly the sound system and the price of only \$495. Called the AE-50, the unit is a one-piece 9-lb transistorized unit incorporating its own power supply as well as a sound circuit described as "sensitive and efficient." A conventional $\frac{1}{4}$ -in. cable connects the camera to the antenna leads of a home TV receiver or a video monitor. The unit includes a built-in automatic light compensator and a 25mm $f/1.4$ lens. Additional lenses are available for wide-angle viewing, telephoto or extreme close-ups.



A new magnetic-film synchronous sound recording system has been announced by Amega Corp., 11817 Wicks St., Sun Valley, Calif. Designated Model A-1, it is a complete record/playback system contained in a single carrying case. The design concept is based on the use of plug-in modules containing circuitry for the bias oscillator amplifier, record amplifier, microphone preamplifier, and playback preamplifier. The design mechanism features a ball bearing dampening system, noiseless 20-tooth sprocket ball-bearing rollers and sprocket film pads which engage four teeth on both sides of the sprocket. Two torque motors, with electric differential, are used for take-up and holdback, with a separate synchronous motor control for forward and reverse switching. Other features include a 4-digit footage counter which is chain interlocked with the synchronous drive motor, removable head cover, and instrumentation-type split-apart 1200-ft reels. The film transport and control panel measures $10\frac{1}{4}$ in. by 19 in. and the amplifier panel measures $5\frac{1}{2}$ by 19 in. Other specifications include frequency response of 50 to 8,500 cycles and distortion, as recorded on film, of less than 1%. Flutter and wow combined is said to be less than 0.01%, and signal-to-noise ratio reported at better than 50 db. The unit is priced at \$1,295.

A new animation system designed especially for making training and sales films from 35mm color slides has been announced by Photomechanisms, Inc., 15 Stepar Place, Huntington Station, N.Y. The system, which was developed in collaboration with Bankers Trust Co., consists of a 16mm reflex camera mounted

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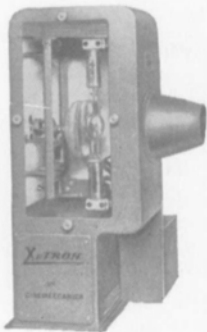
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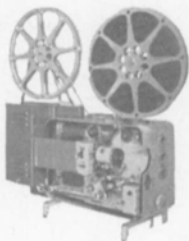
XETRON LAMPHOUSES

XETRON POWER SUPPLIES



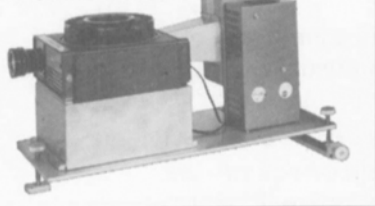
XeTRON CX lamphouse for 16mm, 35mm movie projectors and small format slide projectors. Delivers 2,000 to 2400 lumens and can be used with any standard 35mm projector. Also used to modify many heavy duty 16mm projectors for professional type use

XeTRON 450 JX Lamphouse for JAN projector, provides professional, large screen 16mm projection, delivers 3 times as much screen brightness as from 1,000 watt incandescent bulb. Attaches simply, quickly. Also converts to "STM-18" KALART/VICTOR Projector for Xenon operation.



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C x 450
Adapted to "Carousel"



XeTRON SILICON POWER SUPPLIES—manufactured for XeTRON by Christie Electric Corp. of Los Angeles, recognized as the foremost manufacturer of silicon power supplies. The XeTRON Christie power supply is solid as an important adjunct to the CX and JX type Xenon units and are required if maximum light output and bulb life warranty is to be obtained. Approved by Osram.

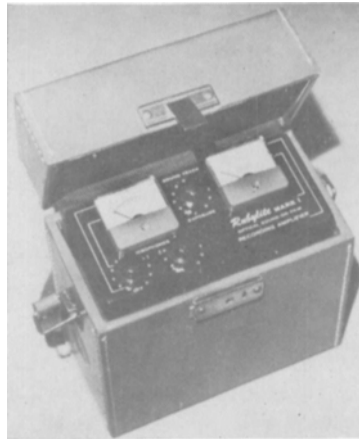
Dimensions: Christie is 8" high x 17-7/8" wide, 13" deep.

Literature on Request. Dealerships Available.

XETRON

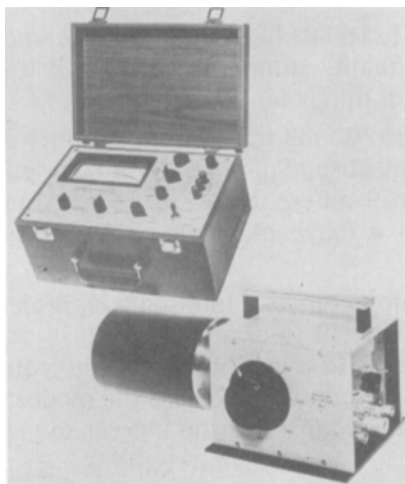
division of **CARBONS, Inc.**, Boonton, N. J.
400 Myrtle Avenue

over a rotatable slide carrier fitted with an electronic flashlamp. An electric motor drive and automatic, follow-focus, variable focal length lens system are included. In operation, pre-selected transparencies are photographed in sequence according to a prepared script.



The Rubylite Transistor Optical Sound-on-Film Recording Amplifier has been announced by Photomart, 228 S. Franklin St., Tampa, Fla. 33602. The Rubylite Amplifier has been designed for use with all Auricon cameras and galvanometers, variable-area or density. With batteries, it weighs only 5 lb and can be used for portable (handheld) sound filming. Standard Auricon cords, plugs and microphones fit the new amplifier. It is priced at \$395.

A low-cost parametric amplifier for use on vhf and uhf bands has been developed by Production Engineering Research Assn. of Great Britain, Melton Mowbray, England. The new amplifier uses a computer diode for the parametric device and a new-type transistor for the pump source. A lumped circuit has been developed instead of the distributed circuit normally used. Operating in the nondegenerative mode, excellent results are said to have been obtained on the 145-mc communication band where it was shown that the internal noise factor did not exceed 1 db over a 2 mc bandwidth with a gain factor of 17 db.



The 580 Radiometer System, which consists of two units, an indicator and a detec-

tor head, has been announced by Edgerton, Germeshausen & Grier, Inc., 170 Brookline Ave., Boston 15. The system is designed to provide a simple, convenient technique for the absolute measurement of pulsed and steady state light sources across a wide dynamic range. Provision is made for scope display of waveform as well as meter read-out. Specifications of the system include available spectral coverage of 200 m μ to 1150 m μ and a temporal range from steady state to 1 NS. Dynamic range of the instrument in steady state irradiance is 3×10^8 , and in pulsed irradiance is 3×10^4 .

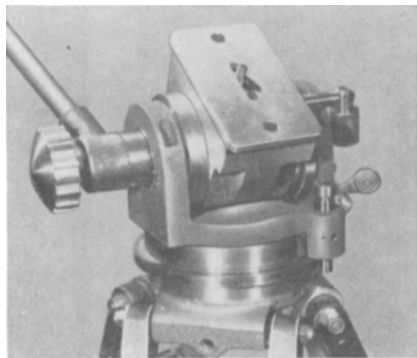
DeMornay-Bonardi Solenoid Driven Waveguide Switches for the 7.05-18 Gc/s frequency ranges have been announced by De Mornay-Bonardi Division of Datapulse Inc., 780 S. Arroyo Parkway, Pasadena, Calif. 91105. Designated the DB-614, features of the new series include switching times to 23 msec; VSWR typically 1.05; insertion loss typically 0.05 db; and isolation typically 55-60 db. Typical switch life is 250,000 c and designs have been tested to 300,000 c without failure, the announcement stated. The price range is from about \$300 to \$350.



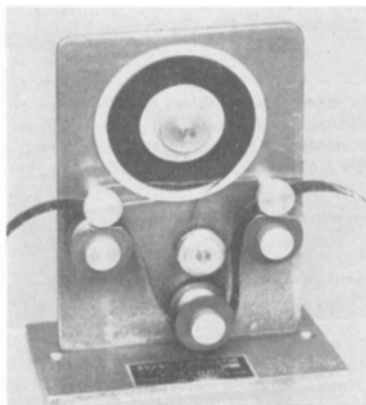
The 403C Sine and Square Wave Generator, a 2-in-1 instrument for servo, audio and video measurements, has been announced by Waveforms, Inc., 333 Sixth Ave., New York, N.Y. 10014. Described as an "elfin" generator, the device, designed primarily for laboratory and systems use, measures $8 \times 6 \times 10\frac{1}{2}$ in. and weighs 12 lb. It provides both sine and square waves in the l-c to l-mc range. Dial accuracy is said to be $\pm 3\%$. Symmetry of the square wave is maintained with the firm's newly developed Waveforms Automatic Symmetry Circuit to within 1% at all frequencies. Output is 10 v into 600 ohms and 1 v into 75 ohms. Voltages into both impedances are read directly on the front panel controls. The equipment is priced at \$500.

A new series of quartz-iodide oceanographic lights, designed to operate at depths to 12,000 m, has been announced by Edgerton, Germeshausen & Grier, Inc., 170 Brookline Ave., Boston 15. The lights have been installed on the U.S. Navy's bathyscaphe, Trieste, and are available for use on other manned submarines, as well as for surface-powered television lighting. Designed to provide highly reliable lighting at great depths for visual observation, motion-picture photography and television, the lights provide a range of light outputs

from 6,500 to 32,000 lm. Power consumption ranges from 250 w to 1,200 w. Presently available are Model 244, a single-bulb, grounded version; and Model 245, a three-bulb version either grounded or ungrounded.



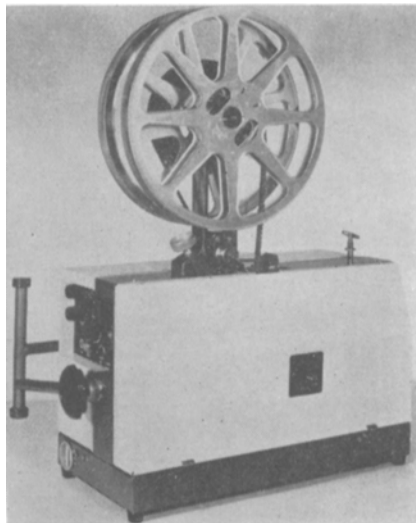
The Pro-Jr Fluid Head Tripod has been announced by F & B/Ceco, Inc., 315 W. 43 St., New York, N.Y. 10036. It is designed to accommodate such cameras as Cinevoice, Arriflex, Eclair NPR and others up to a total weight of 30 lb. The silicone-dampened head utilizes the latest formula for silicone fluid and is designed to operate in temperatures ranging from -20 F to 120 F. Features include a positive grip locking device to permit absolute rigidity in the locked position, and a combination camera balancing and tightening lever.



The Dunning Sound Stripper has been announced by Anson Research, P.O. Box 36487, Wilshire LaBrea Station, Los Angeles, Calif. 90036. It is a simplified, inexpensive "do-it-yourself" device for applying a cold pressure adhesive magnetic stripe to 8mm and 16mm film prints. There are two models: Model 816 is designed to place a 30-mil stripe on either 8mm or 16mm film, a 50-mil stripe on half of a 16mm optical soundtrack for multilingual use, or a 100-mil stripe on a 16mm single perforated film; Model 8 has flanged rollers spaced for 8mm only. The device measures 6 x 7 x 4 in. and weighs 2½ lb. Model 816 is priced at \$49 and Model 8 is priced at \$44.

Availability of six types of sound recording tape in various widths and lengths on Durol Triacetate Base and polyester base has been announced by Eastman Kodak Company's Magnetic Products Sales Division, Rochester 4, N.Y. Tapes on Durol

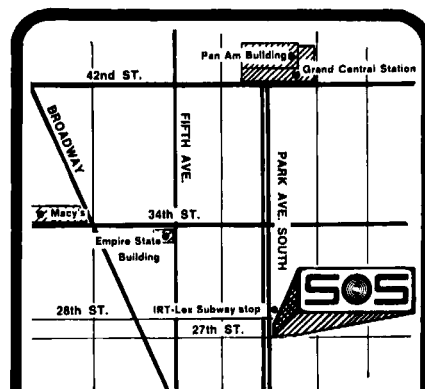
Triacetate Base include Types A303, low-print tape for mastering and general purpose recording; Type A203, for general purpose and extra play; and Type A304, a high-output, low-noise tape. The polyester base films include Type P203, general purpose, extra length; Type P103, general purpose, double length; and Type P105, general purpose, triple length.



A 16mm projector, the XN-16, has been announced by André Debric, Division of Belock Instrument Corp., 14-29 112 St., College Point 56, N.Y. Features include an all-purpose mounting bracket which allows the projector to be set against or hung on the wall, set on a table or mounted on a tripod. Feed and take-up reels at right angles to the optical axis reduce the front-to-back space requirements of the unit. Lamps of 750, 1,000 and 1,200 w, coupled with high-efficiency optics, are used to produce high-intensity light output for classroom work or large-screen projection. Optical sound and magnetic sound are processed through a 10-w built-in amplifier and pilot speaker. A single speed, 24 frames/sec forward or reverse with a synchronous motor, is said to assure maximum steadiness.

The Steven's Continuous Film Projection Magazine, Model AV-515, has been announced by Merkle Film Library, Pacific Ave., Long Beach, Calif. The unit is of the pan type with an automatic clutching device which feeds the film to the projector on demand. The system is said to eliminate pulling and cinching of the film as all layers of film are pushed from the outside to the inside with an even, positive drive. The magazine can be automatically loaded. Price range, based on the number of units ordered, is from \$135 through \$176. The equipment is also available on a rental or lease purchase basis.

The CRT Recording-Processing Magazine, Model 967, a product of Photo-mechanisms, Inc., 15 Stepar Place, Huntington Station, N.Y., has been purchased by Lawrence Radiation Laboratory, according to a recent announcement. Two of these systems have been used with instrumentation associated with nuclear tests at the Atomic Energy Commission's Nevada



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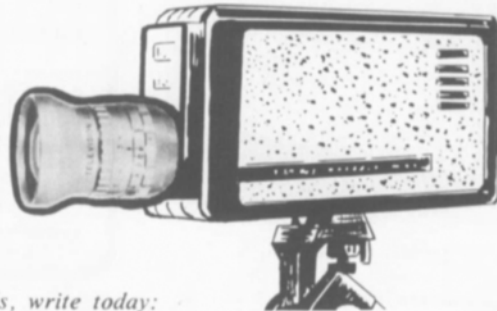




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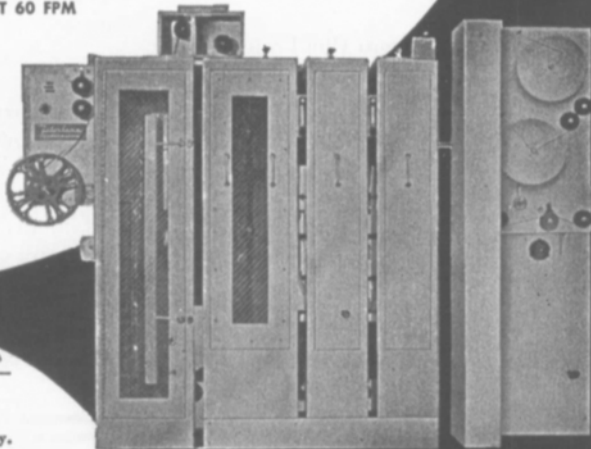
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Test Site. The device is used to replace the magazine of a standard camera which photographs recording equipment that is monitoring the blast. When reaction data have been recorded, the magazine automatically processes the film and presents it for viewing. The rapid, controlled processing is said to protect the film from radiation damage.

Levitron, an air and liquid bearing processor for black-and-white 35/70mm film, introduced last year by Houston Fearless Corp., 11801 Olympic Blvd., Los Angeles, Calif. 90064 (*Journal*, p. 587, July 1963), is now available as a 16/35mm combination unit. The new model features bearings with 16mm and 35mm film paths side by side. Bearings are designed with retaining flanges to guide either of the two film widths through the processor. To use one only, the leader for the other is simply anchored at each end of the processing cycle to permit all the circulation of air and liquid to be used on the bearings in operation.



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Positions Wanted

Still and Motion Picture Photographer. 27 yrs experience in all phases of photography. 6 yrs with leading electronic company engaged in missile testing on Atlantic and Pacific ranges. Complete resume, references and samples of still work sent on request. Married with one child, SMPTE member. Write: 2595 Spaulding St., Long Beach, Calif. 90804. Tel: (213) 439-8415.

Audio-Visual Aids Industrial. 18 yrs experience in management of industrial photographic and art studio, producing motion pictures, still photography and complete art services. Background in 35mm and 16mm films for sales training, public relations, dealer sales films, manufacturing, and service training productions. Age 43, married with family; will relocate. Edw. A. "Jack" Price, 2417 Crest Ave., South Bend, Ind. (219) 289-6839.

Producer-Director. Twenty-four years experience in motion picture and television production proves invaluable when unexpected problems arise and immediate decisions are imperative. Broad diversified background. Have produced and/or directed everything from an hour Omnibus show to opening titles and closing credits for a television series. Have written either in collaboration or alone. Extensive experience in all phases of production and business management as president of a film production company. Seek challenging position where experience, knowledge and creative ability will be recognized. Married, age 44,