

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 16mm picture and sound printer will be presented by JM Developments, Inc., 116-118 West 29 St., New York 1, as part of the apparatus exhibit at the Fall Convention in October. The printer has been designed by John A. Maurer.

The picture head is of the continuous type. The printing sprocket is driven by a mechanical filtering system, with speed constancy comparable to that of a good sound recorder. This makes it possible to use a narrow printing aperture projected optically on the film to avoid the possibility of dust accumulation. The films are controlled by tension arms and idlers in such a way that the slippage which must occur whenever two films are carried around a sprocket is made to occur only when the frame line is being printed. It is claimed that these features result in unusually sharp and steady prints.

The illuminating and light control systems for picture printing are arranged for additive color printing with individual scene compensation for departures from normal color balance. A 30-point light scale is controlled by standard 8-place punched paper tape, which also controls the color-balance changes. The tricolor filter assembly is removed when the machine is to be used for black-and-white printing.

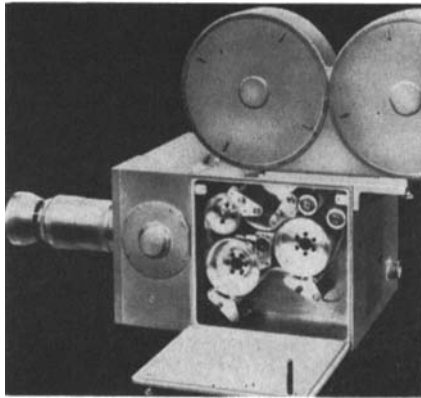
Photographic soundtracks are printed either by re-recording from magnetic originals or by optical printing at one-to-one ratio from photographic sound negatives. The re-recording optical system uses a galvanometer tuned to 26,000 cycles to provide flat transfer of recorded frequencies up to 8000 cycles at a printing speed of 120 ft/min. The track is of the variable-density linear type, which has high playback level as well as freedom from both nonlinear and cross-modulation distortion. By simple insertion of the proper recording control masks and filters, the system is made suitable for recording on either black-and-white positive stock or color print stock.

The optical system for one-to-one ratio sound printing uses a newly designed lens train to provide maximum high-frequency response. In this method of printing, the negative and positive films are driven independently by high-quality constant-speed mechanisms. Flutter introduced by

printing is less than 0.05%. The irregularities of high-frequency response that always result from slippage on a contact printer are avoided.

Simple threading paths are presented for the printing of either single-system or double-system originals with either magnetic or photographic soundtracks.

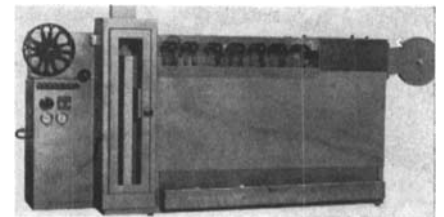
An immediate application of importance to the television industry is the making of high-quality prints with photographic tracks from negatives of newsreel subjects photographed and recorded on prestripped film.



A 70mm rotary prism camera with a reported speed of up to 360 frames/sec has been announced by Traid Corp., 17136 Ventura Blvd., Encino, Calif. Employing the same prism-shutter combination used in the 16mm-1B and 35mm-4B cameras,

the new camera, called the Photo-Sonics 70mm-10B, is especially applicable to situations where long-range viewing is required, for example, in seat-ejection tests, where photographers are usually not allowed within 2000 ft of the track. The camera's design makes it useful for missile photography and high-resolution streak photography.

A transistorized power amplifier-speaker combination, Model MR-1A has been announced by Hallen Electronics, 332 N. LaBrea Ave., Los Angeles 36. The 12-w, transistorized amplifier is said to be acoustically flat and free from dips and peaks in frequency response from 40 c to 12,000 c. Volume and equalization controls are provided on a recessed panel and a jack is provided for an external speaker. The combination was originally designed as a companion to the company's 1216 Magnetic Film Recorder.



A lightweight (500 lb) 16mm daylight reversal negative/positive processor designed for fast processing and ease of installation and maintenance has been announced by Filmline Corp., Milford, Conn.

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The new processor, Model RT-S, is recommended for racetracks, laboratories and TV stations where fast processing is essential. A dry-to-dry time of less than 3 min on reversal emulsions operating at 85 ft/min at a temperature of 90 F has been reported. The unit includes a variable-speed transmission and impingement drying system to permit processing speeds up to 55 ft/min on negative and 125 ft/min on reversal emulsions. The machine is reported to allow an increase of the ASA index by 1000% on Eastman or Du Pont reversal films. Installation requires only water inlet, water and chemical drains, and electrical hookups. Approximate dimensions are: length, 7 ft, 8 in.; width, 2 ft, 8 in.; and height, 3 ft, 11 in. The machine operates on 220 v, 60 c; single-phase, 25 amp. It is priced at \$6450.

A new line of solid-state d-c amplifiers with transistor choppers has been announced by Packard Bell Computer Corp., 1905 S. Armacost Ave., Los Angeles 25. Designed to meet a need for wideband, extremely accurate amplification, the amplifiers employ solid-state circuitry throughout, including the chopper. The line includes wideband differential, operational and potentiometric amplifiers.

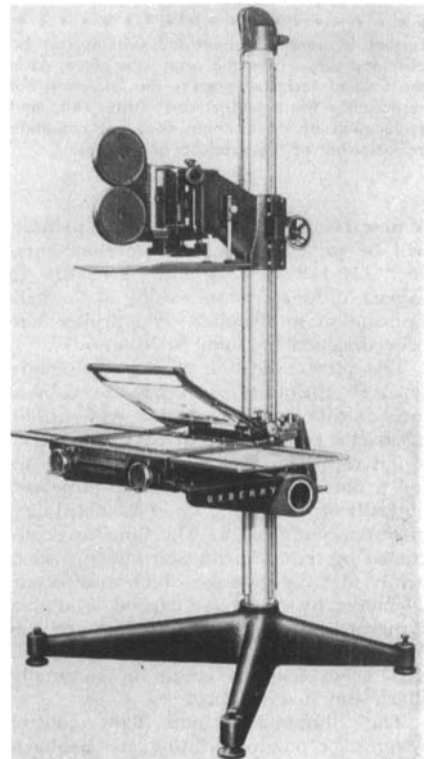
An automatic volume control amplifier reported to maintain a constant output within ± 1 db with input changes of 30 db has been announced by Amplifier Corp. of America, 398 Broadway, New York 13. The amplifier basically consists of a two-

stage push-pull circuit. The input may be connected either to a balanced 600-ohm line (with either or neither side grounded) or it may be bridged across a 600-ohm line without upsetting line impedance. An On-Off switch, a meter transfer and an attenuator are its only controls. An adjustable gain-reduction and gain-increase speed control permits variations in attack and release timing. It is equipped with a self-contained power supply designed for 110/220 v, 50/60 c with a power consumption of 30 w. It is 19 in. wide, 7 in. high and 8 $\frac{1}{2}$ in. deep and weighs 25 lb. It is priced at \$245

An electronic data retrieval system called **Telecard**, which employs a device resembling a telephone dial and a closed-circuit TV system to display selected information, has been developed by General Precision Laboratory, Inc., Pleasantville, N. Y. Agreements to manufacture and market the system have been announced by GPL and the Filmsort Co., Pearl River, N.Y., division of Michle-Goss-Dexter, Inc. Dialing a code number electronically activates the system to select the desired file card out of thousands — or millions. The system can also be activated by punched cards or magnetic tape. Closed-circuit TV is incorporated to transmit an image of the dialed record to the viewer's desk. The documents can be viewed simultaneously by any number of persons at various locations.

A **Slip-Sync System** designed for use in studies of vibration tests and a small, high-intensity stroboscopic lamp and power unit

called **Strobex** are described in separate brochures issued by the manufacturer, Chadwick-Helmuth Co., 472 E. Duarte Rd., Monrovia, Calif. The brochures are illustrated and include specifications, detailed descriptions and suggested applications for each unit. A third brochure, issued by the same company, describes the **Camera-Sync System**, a system designed to produce slow-motion pictures of vibration tests, using normal film speeds. The system employs stroboscopic illumination and a pulse camera, both synchronized with the vibration.



The **Oxberry Unistand**, designed with a single column and precision keys for vertical or horizontal mounting, has been announced by Animation Equipment Corp., 38 Hudson St., New Rochelle, N.Y. The design of the new unit emphasizes economy and accuracy. It is recommended by the manufacturers for educational institutions, industrial organizations, film strip and title studios and other organizations where initial economy is an important consideration. The copyboard carriage is designed to accommodate animation compounds, plain copyboards, light boxes, vacuum backs and easels. Such devices are interchangeably mounted on two cast aluminum side arms attached to a heavy cross tube. The tube is supported by the main carriage casting which rides the column on ball bearings. A handwheel, geared to the rack on the column, is used to position the copyboard carriage.

The basic stand consists of a single column, 4 in. in diameter and 86 in. long. Two precision steel keys and full-length rack are mounted on the column to guide the camera and copyboard carriages. The unit is available as a wall-mounted, pedestal or horizontal model. The wall-mounted model is priced at \$1295, a price which does not include compound, camera, shadowboard or lights.

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Interchangeability of video-tape records made in the United States, Great Britain or Continental Europe was the object of the development of a standards converter by Granada TV Network, Ltd., Granada House, Water St., Manchester 3, England. The Granada system has certain similarities to that used by the B.B.C. to convert the 625-line Eurovision standard to the 405-line British standard, but special problems were encountered in conversion to and from the 525-line American standard. The main problem was that of the beat or flicker occurring at the rate of 10/sec, representing the difference between the field rates of the two systems. A solution was found by applying a correcting 10-cycle waveform to the display so as to change the gain of the amplifier in the monitor at the flicker frequency, and in accordance with the law of combined image-orthicon storage and display monitor decay characteristics.

Conditions necessary for generating the correcting waveform are (1) frequency division (by 6 or 5) and subsequent multiplication (by 5 or 6) to ensure accurate and integral field-frequency relationship; (2) a phasing system to adjust the relative phases of 50- and 60-field signals to coincide during the frame blanking period every $\frac{1}{10}$ sec; and (3) generation of a correcting waveform and its application as a gain controlling parameter to the video amplifier within the display monitor.

The equipment is run from an a-c power supply of a frequency equal to that of the respective field rates. A synchronous 50-c motor is run from the local 230-v, 50-c power supply. The motor is gear-coupled to an alternator through a 6 to 5 ratio so that the alternator will invariably deliver a frequency which is $\frac{6}{5}$ that of the local power supply. For example, if the local power supply is a cycle slow because of heavy loading, the alternator will deliver $6 \times \frac{49}{5}$ cycles and not exactly 60. Electronic circuits permit control over the gamma of the displayed signal, allowing some correction to the overall transfer characteristic of the conversion process.

All circuits are embodied in a relatively small unit of equipment which has a cathode-ray-tube display of the phase of the 50-c and 60-c waveforms, or the shape of the correcting 10-c waveform.

A 110° cathode-ray tube, Type 23BP4, with the safety panel sealed to the tube by epoxy resin has been announced by Westinghouse Corp., Electronic Tube Div., P.O. Box 284, Elmira, N.Y. Double face-plate construction eliminates the implosion glass commonly used on TV receivers. Since the epoxy resin and the glass face-plates have the same index of refraction, two reflecting surfaces are eliminated. The laminated panel is said to prevent accidental implosion and make the picture tube safer to handle.

A new tube for television cameras, the RCA-7513, has been announced by Radio Corp. of America. Used for both color and black-and-white, the new tube is constructed to ensure accurate alignment of each section of the tube with respect to the tube axis. When used with color cameras, the use of deflecting yokes and focusing coils is recommended.



Development of a completely mobile educational closed-circuit TV system, Model ETS-1, which can be moved from classroom to classroom "as easily as a tea cart" has been announced by Dage Television, a division of Thompson Ramo Wooldridge, Inc., Michigan City, Ind. Included in the system is a Dage 700-line resolution TV camera with viewfinder, hood and rear-controlled four-lens turret. The mobile console, which includes video monitors, camera control, sync generator, power supply and waveform monitor, is designed to fit in a panel truck, and to go through a standard, 30-in. doorway. Additional equipment can be added as needed. Cameras, film projector controls, audio switching and mixing, video switching and fading, and a spare transistorized sync generator can be added without impairing mobility. Prices of the new system, including cameras and basic equipment, begin at about \$11,800.



A new tape recorder, the Magnecord Model 728 Professional, has been announced by Magnecord Division of Midwestern Instruments, Inc., 41st and Sheridan, Tulsa, Okla. Features include two-channel capacity, modular construction, flexibility of operation, low flutter and wow and extended frequency response. It is available with full-track, $\frac{1}{2}$ -track or split stereophonic heads. A fourth head, ordinarily used to reproduce $\frac{1}{4}$ -track stereophonic tapes may be mounted in the head bracket. The fourth head is not required for sound-on-sound operation. Without the fourth head, the recorder is priced at \$759; with the additional head, \$850.

A closed-circuit TV camera designed by Packard Bell Electronics Corp., 12333 W. Olympic Blvd., Los Angeles 64, is announced as providing detail in excess of 600-line resolution. It has single operating control, a fully regulated power supply, keyed automatic black-level control, and an automatic light compensator. Remote accessories, available for all applications,

TELEVISION PROJECT ENGINEERS

Growth and diversification program provides opportunity for several development and design engineers. Background should include three to four years of video circuit design, pulse techniques, r-f, camera tube circuitry, and similar activity.

PHOTOSURFACE PHYSICIST

Must be well grounded in development, formation, and measurement of photosensitive surfaces. Background should include high vacuum technique, tube design, electron optics, and associated skills.



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The Model G-803 Triple Program Equalizer, designed for magnetic recording and reproduction, has been announced by Magnasync Mfg. Co., 5546 Satsuma Ave., North Hollywood, Calif. All components except switches are sealed and encapsulated. The machine measures 19 in. by 3½ in. by 3½ in. It has 600-ohm impedance; 14-db insertion loss; -70 dbm minimum and +20 dbm maximum input level; high- and low-frequency controls and standard Western Electric hole spacing. It is priced at \$395.



The German-made Steenbeck line of editing equipment is now distributed in the United States by Gaston Johnston Corp., 26-64 45 St., Long Island City 3, N.Y. The line includes 2-, 4- and 6-plate film editing machines for 16mm, 35mm and CinemaScope film, motorized rewinding tables and an editing machine, called Kobiton, designed especially for use in TV studios on 16mm or 35mm film. An illustrated catalogue describing the equipment in detail is available from the company.

A semiautomatic, 500-w slide projector, called the Headliner 710, has been announced by Bell & Howell, 7100 McCormick Rd., Chicago 45. The machine features an illuminated editing panel at the back of the projector housing for previewing slides before they are loaded into trays for projection. The panel may be used at the same time the slides are being projected so that while one tray of slides is being shown slides may be selected for another tray. The projector projects 2 by 2, bantam and super slides. The price, which includes a carrying case, is \$69.95.

The Fogmaker Moleffect, announced by Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood 38, is a compact, 9-lb unit that uses a special liquid called fog juice to create effects of fog, smoke, haze or mist. A cooler attachment, filled with dry ice, will cause the vapor produced by the fog juice to hug the ground. The handy little device can also clear the area of haze, perfume the air with deodorants and kill flying and crawling insects. Appropriate liquids — fog chaser, spice or mint

deodorant, and insecticide — are available. The device operates on the principle of a teakettle, with a plunger pumping liquid into the heat chamber to produce puffs of vapor. It requires 115-v a-c or d-c, 8.3 amp, 1000 w, and is equipped with a 6-ft detachable cord. The basic unit is priced at \$94.50.

Formation of a new company, Arriflex Corp. of America, 257 Park Ave. South, New York 10, has been announced by the company's President, Paul Klingenstein. Distribution of all Arri products, including film developing machines, has been transferred by Kling Photo Corp. to the new company. The transfer became effective July 1. Expansion of the Arri program and the specialized character of the equipment influenced the decision to create a new company.

Plans for installation of a Super High Frequency and Ultra High Frequency radio link between Birmingham and Norwich have been announced by Marconi's Wireless Telegraph Co., Chelmsford, Essex, England. The link will be twin-path and bi-directional and will carry B.B.C. television programs between the two cities, serving, en route, the new B.B.C. transmitter near Peterborough. The radio link in its final form will employ the Marconi 4000-mc equipments Type HM500 (terminal) and HM550 (repeater) together with the 2000-mc equipments Type HM200 (terminal) and HM250 (repeater). Such links are capable of carrying TV signals of 405 lines, 525 lines or 625 lines. Such links are also capable of carrying an NTSC-type color TV program and, by substitution of the necessary baseband amplifiers, they can be used to transmit 600 simultaneous telephone channels. Both the HM500/550 and the HM200/250 series of equipments use the English Electric Valve Co.'s traveling-wave tubes throughout.

Price reductions in 64-minute reels of "Scotch" brand video tape have been announced by Minnesota Mining and Mfg. Co., 900 Bush Ave., St. Paul 6, Minn. The net price also has been reduced to \$260.27 in lots of 24 to 47 and to \$271.58 in lots of 6 to 23.

Bulletin No. 7 in the series on Projector Carbons has been issued by National Carbon Co. Division of Union Carbide Corp., 30 E. 42 St., New York 17. The 8-page bulletin discusses mirror-type high-intensity lamps using Suprex carbons — nonrotating, positive. A number of illustrations add interest and clarity to the text.

Nameplate Designing for Engineers, a 20-page booklet published by H. G. Dietz Products Co., 12-16 Astoria Blvd., Long Island City 2, N.Y., is intended as a guide for engineers or draftsmen in designing or specifying nameplates for products in the development stage. Subjects discussed include lettering, composition, how to draw a rough nameplate layout, selection of materials, odd-shaped nameplates and other items of interest. The booklet is available without charge upon request to the company.

Audio-visual equipment manufactured by Genarco Inc., 97-04 Sutphin Blvd., Jamaica 35, N.Y., is illustrated and described in a 4-page catalog available without charge from the company. Among the equipment described is the Genarco 3000-w slide projector, available in various models, and electric slide changers for 3½ by 4 slides.

Supplementary sheets for the Sylvania Photolamp Technical Manual have been issued by Sylvania Lighting Products, Div. of Sylvania Electric Products Inc., 1740 Broadway, New York 19. Sheets Nos. 890, 893, 894, 8101, 8102 and 8103 describe a new high-voltage Tru-Focus lamp and a new low-voltage Super Tru-Flector. Sheet

891 replaces present sheet 7319 in the Projection Lamp section and sheet 892 replaces 825.

Lens Selector, an illustrated four-page folder issued by Traid Corp., 17136 Ventura Blvd., Encino, Calif., describes more than 57 different lenses for motion-picture cameras which are available on a rental basis. Covering a wide range of wide-angle, normal, and long focal length and zoom lenses for 16mm and 35mm cameras, the folder also includes information on lenses for 70mm and prism cameras. The folder is available without charge upon request to the company. It is a companion publication to *Camera Selector* (*Jour.* p. 370, May 1959).



**employment
service**

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These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Motion-Picture or Television Production. Graduate New York Univ., B.A. Communication Arts. Experienced all phases motion-picture and television production. Seeking permanent position with television or motion-picture production organization. Willing to relocate. Résumé on request. Write: Walter Bleich, 2700 Marion Ave., New York 58.

Assistant to Director or Producer. Former instructor in motion pictures, Theater Arts Dept., Univ. of California, Los Angeles, desires position as personal assistant to a director or producer of feature films. Background includes: B.A. in Motion Pictures, 3 years teaching all phases of motion-picture production, second unit direction of a Disney "true-life adventure," and director of photography on dramatic and documentary films. Willing to travel. Available for interview in Los Angeles area. For references and detailed résumé write: William R. Lieb, 140½ W. Foothill Blvd., Claremont, Calif. Tel: NAtional 4-4166.

Editor-Cameraman. Over 10 yrs solid production experience in New York with quality producers of industrial, business and television films. Seek staff position. Résumé available. Member SMPTE since 1948. No other affiliations. Joe M. Wolff, 43-31 Ithaca St., Elmhurst, N.Y.

Laboratory Contact/Optical Printing Specialist. Past 6 years under contract Consolidated Labs east coast as head of unit. 20 yrs prior employment with Universal, Paramount, Warners in Hollywood on camera. Ideal to destroy phonies. Own optical printer using Acme camera, projector, etc., for 35/35; 16/16, 35/16, 16/35, color or black-and-white, plus contact registration and aerial image — for rental or sale. Bill Heckler, 21 West 58 St., New York 19. PLaza 3-7067.

Motion Picture Cameraman. Active member SMPTE now employed at local film studio. Formerly with Telenews and CBS-Newsfilm. Just completed study in film production in the States with M.S. degree. Owner of 16mm

Bell & Howell and 35mm Arriflex cameras. Desire film assignments in Formosa and neighboring countries—16/35, color/B&W, news, documentary, educational and production work. Write: Dennis K. Chin, P. O. Box 222, Taipei, Taiwan.

Positions Available

Film Inspectors. Temporary or permanent. Write or call Peerless Film Processing Corp., 165 W. 46 St., N. Y. 36. Tel. PLaza 7-3630. Att: Kern Moyses.

Chief Engineer. Immediate opening. Responsibilities include the administration of a staff of engineers designing electro-mechanical products for commercial and military application. Located in the Los Angeles area. Please reply in writing to W. C. Heath Associates, Inc., Room 526, 714 West Olympic Blvd., Los Angeles 15, Calif.

Audio Repair Man. Thoroughly experienced on magnetic tape recorders, projector and Moviola amplifiers, etc. Knowledge of motion-picture sound equipment essential. Good salary. Write fully to Arthur Florman, Florman & Babb, Inc., 68 West 45 St., New York 36.

Motion-Picture Equipment Salesman. Knowledge of all professional production equipment. Outside sales, to visit film producers, industrial accounts, etc. Fully experienced. Good salary. Write fully to Arthur Florman, Florman & Babb, Inc., 68 West 45 St., New York 36.

Recording Engineer. To serve as head of electroacoustics laboratory involving duties in the fields of audio-video, acoustics and recording systems. Must be able to render consultation services in connection with research and development on related electronic systems and programs. Degree plus 3 yrs professional experience in above fields required. Salary \$8810 per annum. Position is in Federal Career Service. Send SF-57 "Application for Federal Employment," obtainable at any Post Office, to Employment Superintendent, U. S. Naval Training Device Center, Port Washington, N.Y.

Chemist. Over 6 yrs experience with major laboratory in color and black-and-white developing, quality control, troubleshooting and processing equipment. Write: Marvin Leff, 2109 76th St., Brooklyn 14, N. Y.

Engineer. Future assured in growing organization located in convenient Long Island City area for mechanical and design engineer having at least 7 yrs experience in photography, computer and records systems. Capable of taking project from scratch to completion. Write or call for appointment: Prestoseal Mfg. Corp., 37-27 33 St., Long Island City 1, N. Y. STillwell 4-6832

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