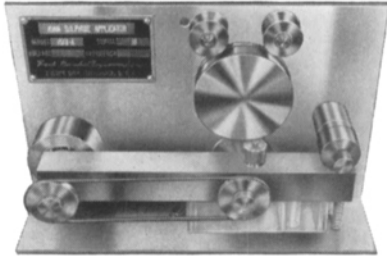


# SOUND TRACK APPLICATOR

MODEL 1513A



**T**his applicator is film driven and is used in applying a redeveloper agent, hypo, or sulphide to the sound track area of color motion picture release film.

The applicator wheel may be set to either side of the film drum to accommodate either head or tail film travel. The distance between applicator wheel and film is adjustable through a calibrated eccentric having 1/1000 of an inch graduations. A spring return is provided to permit passage of splices.

The unit is of stainless steel construction except for details unobtainable in stainless steel. Less than three ounces of film tension is required to operate the applicator.

Prices:

MODEL 1513	(35mm) . . . . .	\$452.70
MODEL 1513A	(16mm) . . . . .	452.70
MODEL 1513B	(16-35mm) . . . . .	519.80

F.O.B. Culver City, California, and subject to change without notice.

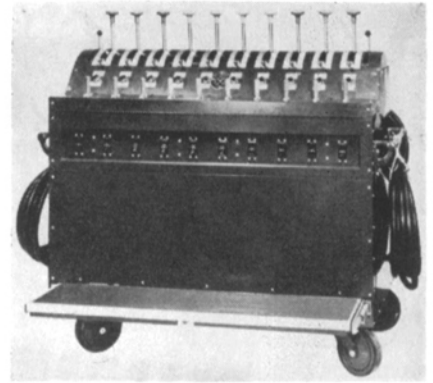
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## new products

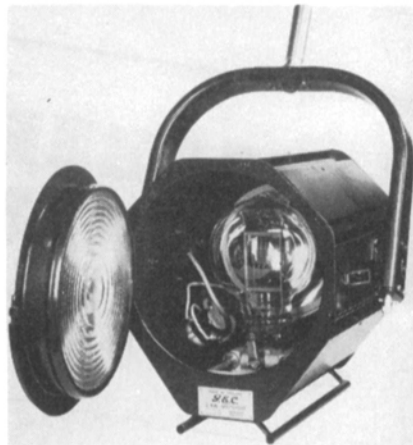
(and developments)

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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.

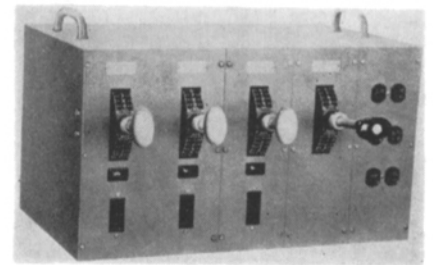


A new dimmer combination consisting of two 5000-w, four 2000-w and four 1000-w resistance-type dimmer plates has been announced as Type 367 by Mole-Richardson Co., 937 North Sycamore Ave., Hollywood 38. The Combination interlocks in any combination and features graduated scales, colored operating handles for each wattage, adjustable cue stops and numbered circuits. Weight is 940 lb. Dimensions are: height, 59 in.; width, 27 in.; and length, 62 in.

The company has also announced a Type 1761, 30-kva, 3-phase, 60-cycle Transformer. Designed to convert from 240 or 480 v, 3-phase, to 120 v, the transformer features low noise level. Dimensions are: height, 44 in.; width, 25 in.; length, 43½ in. It weighs 790 lb.



Two new lighting units have been announced by General Electric Co., Ltd., Magnet House, Kingsway, W.C. 2: a 2-kw spotlight weighing 27 lb complete with remote control yoke; and a 5-kw spotlight weighing 60 lb complete. The new spotlights, constructed of sheet steel, are designed to house Osram 2-kw and Osram 5-kw lamps, respectively. A specially designed cooling system allows air to pass through the unit at any angle at which it might be operated. A newly designed bipost lampholder, with a spherical backing reflector, can be adjusted to hold the lamp at all operational angles. Each unit can be supplied with a yoke which houses a newly designed self-locking system which enables an operator to tilt, pan, focus or switch an otherwise inaccessible unit by using a light aluminum pole. If preferred, the units can be supplied with a conventional yoke which terminates in a spigot made to B.S. 2063: 1953. The lamphouse is locked to the yoke by a single side clamp. When the clamp is released the lamphouse is free to rotate in its yoke. Specially designed accessories, including "barn doors" and "snoots," fit into a small channel section which is an integral part of the front door of each unit. This method of holding accessories makes it possible to keep the lens of a unit unobstructed when a "barn door" is open. In addition to other accessories, a newly designed "barn door," which can be rotated and its doors positioned by means of the remote control operating pole, is available.

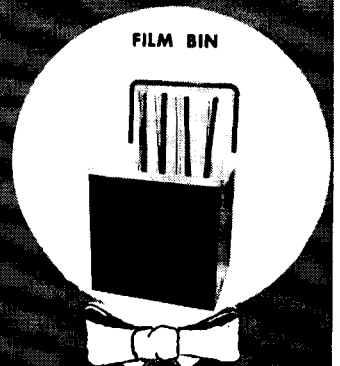
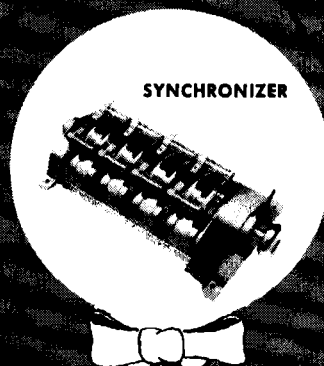
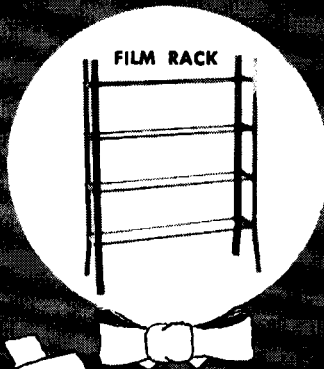
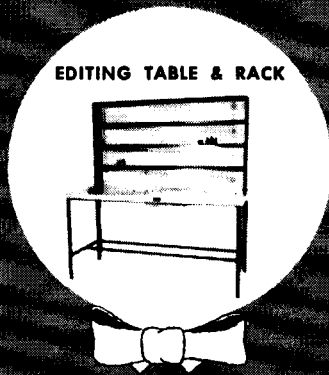


The Controlite dimmer bank, a product of Ward Leonard Electric Co., Mount Vernon, N.Y., is now available in a smaller packaged version called the Controllette. Announced by Ad. Auriema Inc., 85 Broad St., New York 4, the packaged dimmer units are available with a choice of 3, 4, 5 or 6 individual lighting controllers, each of which can be mechanically interlocked with any of the others or can be made to interlock to a master lever, if desired. Designed for 60 cycles, 110 v, the unit is ready to plug in when delivered. Prices range from \$625.00 for the 3-unit package, with solid output and without a master handle, to \$1095.00 for the 6-unit package with a double-pin plug and with a master handle.

A Pulsed Xenon Arc Lamp (PXA), recently developed by General Electric has been incorporated in a line of lighting equipment produced by American Speedlight Corp., 63-01 Metropolitan Ave., Middle Village 79, L.I., N.Y. A joint announcement was made by the two firms.

The PXA is a tubular quartz lamp designed primarily to expose slow-speed photosensitive materials. It operates with a radar-like pulsing effect, flashing on and

*What The Well Dressed Editing Room Should Wear*





off 120 times a second. Less than a half-inch in diameter, the lamp is available in lengths ranging from 3 to 36 in. It can be used in high-speed photography. The photograph, which shows a falling flashbulb, was made by the light of the new lamp.

The lighting system which incorporates the PXA was developed chiefly for printing and publishing applications. Characteristics which make this lamp especially useful for these applications include a color temperature effective with photosensitive materials, high wattage concentration, and adaptability to reflecting sur-

faces. It can be turned on and off for each exposure with no warmup time. Under typical operating conditions the life of the lamp averages 50 hours. The lamp receives pulses of current from its ballast system, a pulse for each half-cycle of the line frequency, or 120/sec on a 60-cycle line.



**The TN Tempo Regulator** (previously called the Acoustical Time Regulator) is a device for increasing or decreasing the playback time of a tape recording without altering pitch, or, within certain limits, without increasing distortion. The basic machine was invented about ten years ago by Anton M. Springer of Telefonbau und Normalzeit GmbH., Frankfurt am Main, Germany. The improved 15-in./sec machine, Model 38, is available in this country from the Tele-Norm Corp., 55 W. 42 St., New York 36; the price is \$1990 f.o.b. New York. It was demonstrated at the National Assn. of Broadcasters Convention in April at Los Angeles.

The Tempo Regulator consists, essentially, of a specially designed capstan drive

which operates in conjunction with a rotating, four-section playback head in the form of a cylinder with the four gaps equally spaced around its circumference. Automatic means are provided so that when the speed of the tape is changed the cylinder will rotate so as to maintain a constant speed of 15 in./sec relative to that of the tape.

The tape contacts the head for exactly one-fourth of its circumference. Thus, when the tape speed is increased, shortening the playback time, the head rotates in the same direction as the tape, and bits of information are removed during each revolution. When the tape speed is reduced, thus lengthening the playback time, the head rotates in the opposite direction and bits of information are repeated during each revolution. When the tape speed is exactly 15 in./sec, the head is stationary and normal reproduction is obtained.

Since the relative speed between tape and head remains constant, the pitch is unaffected, but, of course, the bits of information removed or repeated must be short enough to be practically unnoticeable. It is claimed that the tape speed can be reduced to 90% or increased to 120% of normal before distortion becomes objectionable.

**Camera Equipment Co.**, 315 W. 43 St., New York 36, has introduced the Pye Transhailer, an extremely lightweight electronic megaphone which features a germanium transistor amplifier. Powered by standard flashlight batteries, it is 15½ in. long with a horn 10½ in. in diameter. Weight, including batteries, is 5 lb. With a reported operating range of a quarter of a mile under normal conditions, it has a maximum power output of 3½ w. Retail price is \$99.00.

**Two new recording instruments**, the Stereo Magnecordette and the P-75 Editor II, have been announced by the Magnecord Div. of Midwestern Instruments Inc., Tulsa, Okla. The Magnecordette is designed for simplicity of operation in recording or playback. It features stacked-in-line stereo, haltrack monaural with tape speeds of 3½ in. and 7½ in. The reel size is 5 in. and 7 in. Frequency response is 50-12 kc ± 2 db at 7½; 40-15,000 cps ± 2db at 15 ips; 50-6 kc ± 2 db at 3½. The signal-to-noise ratio is reported to be down more than 58 db from the 3% third harmonic distortion point and the channel-to-channel crosstalk more than 50 db down. It is priced at approximately \$395.00 with custom cases and cabinets optional at a nominal additional cost. The P-75 Editor II features fail-safe brakes and tape break automatic shutoff. It has a timing of ± 3 sec in 30 min with a high forward and rewind time reported as less than 100 sec for a 10½-in. reel. The unit weighs 51 lb in the carrying case.

The company also announced the M-90 stereophonic recorder-reproducer featuring pushbutton controls and 15 and 7½ in./sec with switch selection, instantaneous start and stop, high-speed cuing control and remote control. A record interlock has been designed to prevent accidental erasure, and dual record and playback amplifiers permit monitoring from each channel.

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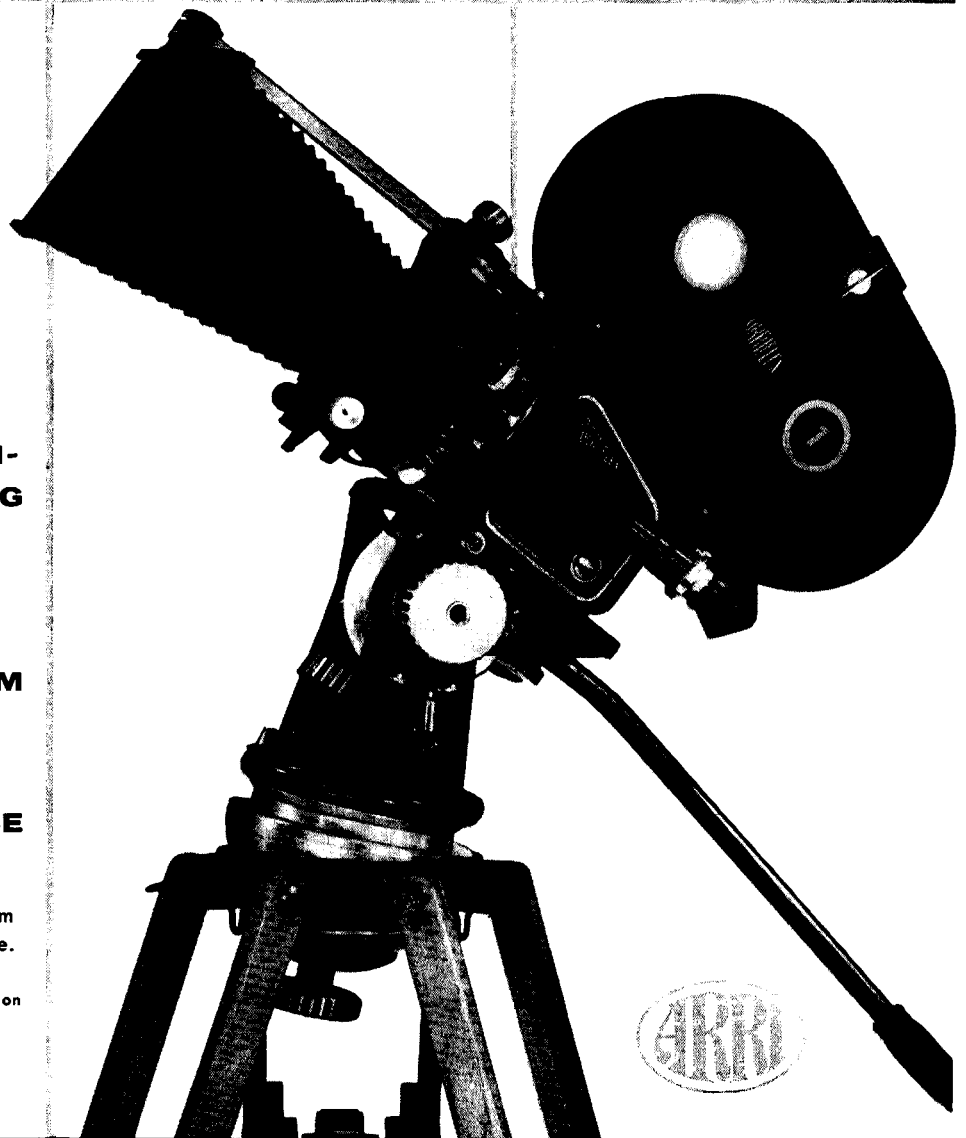
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The Trickoma II is a versatile optical printer for making copies from either 35mm or 16mm to either 35mm or 16mm film. Optical magnification can be varied from 1:3 to 1:0.33, the image being automatically focused at all magnifications. Provision is made for frameline correction, for multiple-frame and skip-frame printing, for making fades and dissolves from 16 to 90 frames in length, for cut-out copying with vertical and horizontal adjustment on area copied, and for operation at either 10 frames/sec or 1 frame/sec. A viewing magnifier is provided at both gates. Operation of the printer is programmed and controlled from a remote control panel. (Abstracted by John G. Streiffert, Eastman Kodak Co., Bldg. 59, Kodak Park, Rochester N. Y., from "Optische Trick-Umkopiermaschine Trickoma II," by P. Zschoche, *Filmtechnikum*, 9: 103, Apr. 1958.)

A lightweight metal cradle which may be used with lenses too long or too heavy to depend on the camera mount for support has been announced by Karl Heitz Inc., 480 Lexington Ave., New York 17. Originally designed by Kinoptik for its series of color-matched 16mm and 35mm Apochromats, (*Journal*, p. 508, Aug. 1957), the cradle is threaded to fit any standard tripod or dolly. It is priced at \$99.00.

Development of an electron tube not much larger than a shirt button ( $\frac{1}{8}$  in. in diameter and  $\frac{1}{4}$  in. thick) has been announced by General Electric Research Laboratory, Schenectady, N.Y. The miniature tube, constructed of layers of titanium and a special ceramic, is capable of operating at temperatures of from 900 to 1500 F. The design is still in the laboratory stage and no tubes are, as yet, commercially available.

A two-terminal passive semiconductor component, developed by Bell Telephone Laboratories, has been announced. Called a field effect varistor, the experimental device has a constant-current feature which would make it suitable for use as a current regulator in circuits where the load or supply voltage might vary over wide limits. Related in principle to the field effect transistor, it contains a single planar junction which is made by diffusion. Current passes parallel to this junction through a constricted region called the channel. As the voltage is increased, the current increases and a depletion layer builds up which eventually reaches through the entire thickness of the channel. At this point a further increase in voltage does not produce any increase in current. At this point the current is essentially constant and remains so until the voltage is increased to a point where an avalanche breakdown occurs. At present the varistors are fabricated by cutting dice from a slice of germanium or silicon containing a single diffused junction. The dice are heavily plated on all surfaces, and a circular trench is cut into the diffused layer to within about 0.1 mil of the junction. Leads are attached by thermo-compression bonding or other convenient means.

Autotronics Inc., Rt. 1, Box 812, Dept. 12, Florissant, Mo., has announced a line of small electromagnetic clutches. Called

AIM Model C-125, the units have 1.125 pilot mounting diameters, clutching torque of 40 oz-in., no slip rings and are self contained. When energized, the output and input shafts are coupled together, and are free running when de-energized. The clutches are applicable to tape recording equipment and other automatic controls.

**The Tele-Trol System** for reception and redistribution of TV signals has been announced by Jerrold Electronics Corp., 23rd and Chestnut Sts., Philadelphia 3. The system consists of two units, Model TM Transmitter-Modulator and Model TD Receiver-Modulator. The Receiver-Modulator is designed to receive and demodulate VHF TV signals. Basic applications are "off-the-air" pickup of TV programming for the broadcaster, closed-circuit and community antenna systems. It features 60 db IF rejection of adjacent carriers, noise suppression circuitry, "keyed" AGC and manual gain control, station-outage squelch circuitry, conversion of any VHF channel, and an optional crystal-controlled lock-in oscillator.

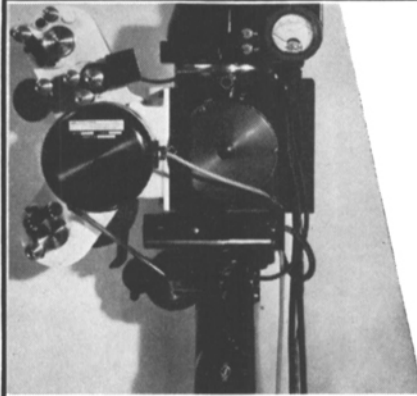
The Transmitter-Modulator is a low-power TV transmitter which provides standard vestigial sideband output on VHF TV channels 2 through 6 from standard video 4.5-mc sound sources. It is designed for distribution of VHF TV signals in microwave applications, closed-circuit and community antenna systems. It features sideband filtering, phase equalization, crystal-controlled output, controllable modulation percentage, internal regulated power supply, and an optional 4.5-mc accessory modulator which permits the unit to be used with a microphone.

**A new splicing tape** for splicing and editing video-tape recordings, and a new leader with a special write-on coating for labeling a recorded roll of video tape have been announced by Minnesota Mining and Mfg. Co., Dept. A8-127, St. Paul, Minn., as companion items to the firm's Scotch video recording tape No. 179. The splicing tape is an aluminized polyester film material with a special low-cold-flow adhesive. The aluminum coating drains off static charges during splicing to facilitate ease in handling in all temperature and humidity conditions. It has a  $\frac{1}{2}$ -mil backing and is  $\frac{1}{4}$  in. wide and 66 ft long. The leader and timing tape is 2 in. wide and 150 ft long. It features a special finish which permits labeling with pen, pencil or ballpoint pen.

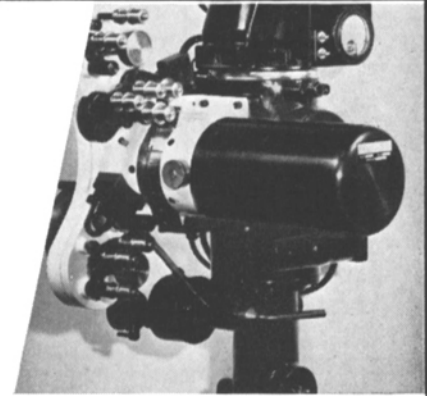
**For television and radio equipment**, a new General Electric regional headquarters office has been opened at 16247 Wyoming Ave., Syracuse, N.Y. This is one part of an expansion program involving the company's Technical Products Dept. Wells R. Chapman, formerly manager of marketing administration and product planning for the Department is in charge of the new headquarters.

**Arden Inc.**, 534 W. 30 St., New York 1, a firm specializing in theatrical effects, has announced that it now makes all types of breakaway glass. "Anything. Windowpanes — bottles — pots and pans," the announcement states. The firm constructs props for sale or rental.

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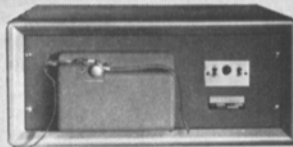
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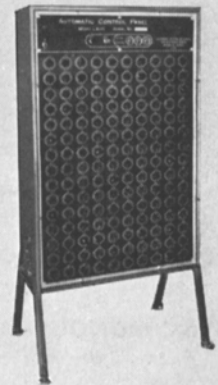


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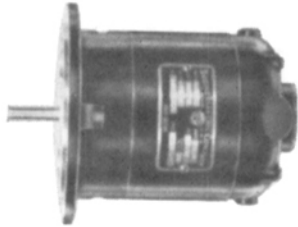
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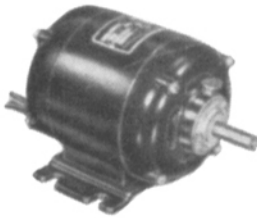
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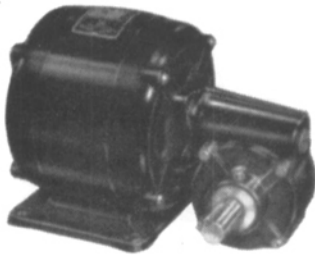
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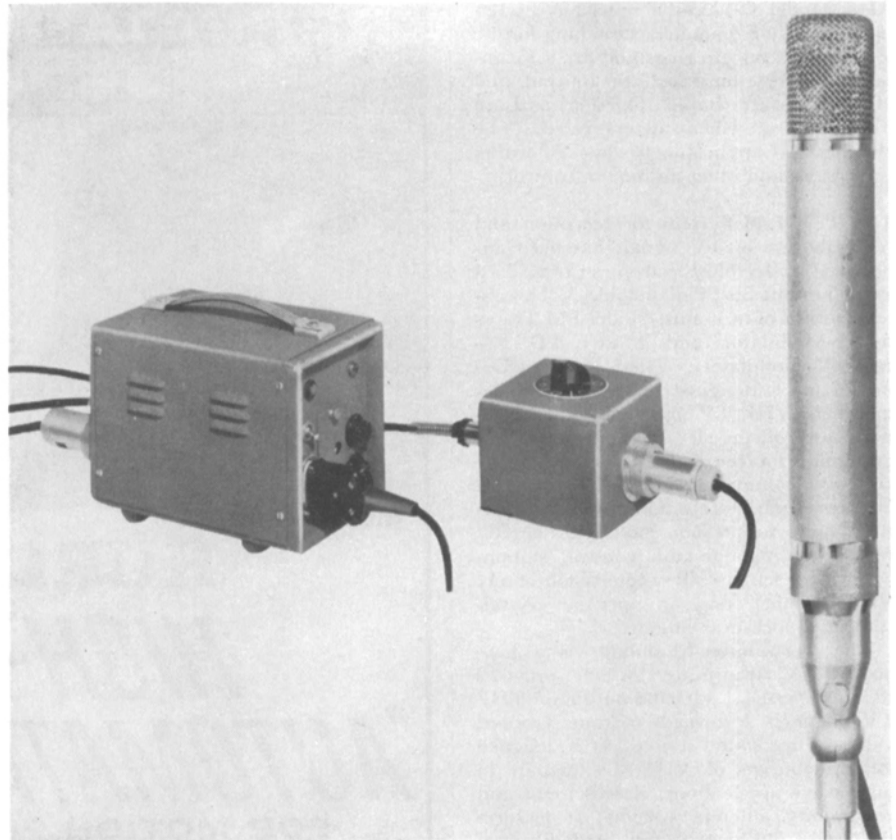
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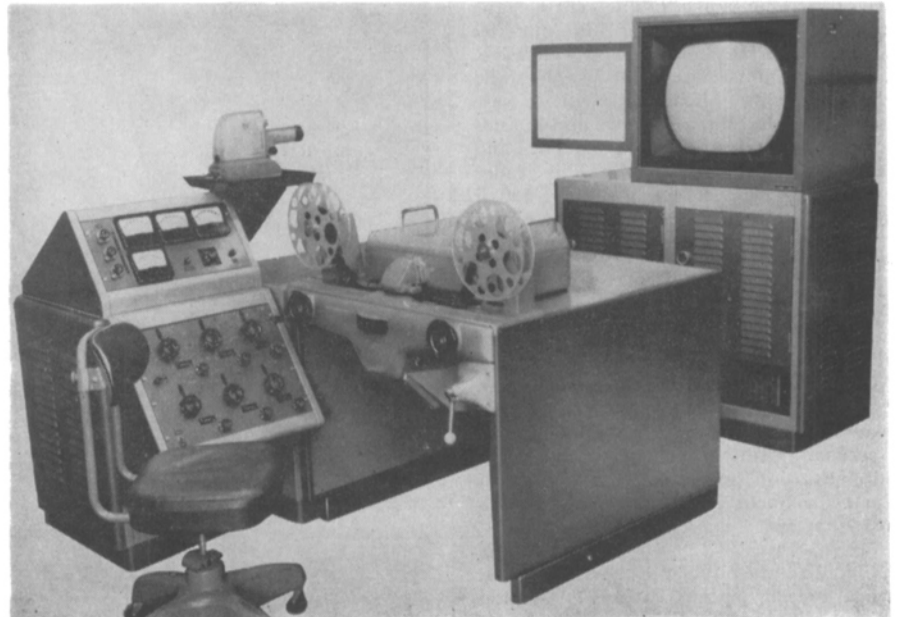
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A polydirectional condenser microphone, made in Austria by the Akustische und Kinogeräte Gesellschaft, and distributed by Camera Equipment Co., 315 W. 43 St., New York 36, is specially designed for FM, high-fidelity recording and sound-film studios. Called AKG Model C-12, it features a switchbox for the remote control of directional characteristics, providing omnidirectional cardioid, figure 8 and 6 intermediary patterns. The frequency response is described as having been ex-

tended to the limits of audibility (50 to 10,000 c,  $\pm 2.5$  db, and 30 to 15,000 c,  $\pm 3$  db). Frequency range is from 20 to 15,000 c. The unit consists of a cylindrical metal shell which contains a condenser head, a 12AY7 tube and an input transformer. It is connected to power by a 65-ft multiconductor cable and another multiconductor cable leads from the power supply to the switchbox. The price is \$775.00.



An Instantaneous Electronic Color-Film Analyzer was announced recently by Hazeltine Research Corp., 59-25 Little Neck Parkway, Little Neck 62, N. Y.

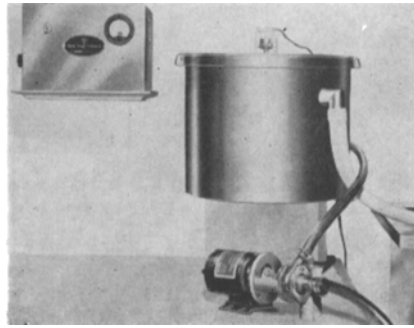
Previously described in a *Journal* paper (by Messrs. Loughlin, Bailey and Hirsch of Hazeltine, and Miller and Giarraputo of Pathe Laboratories, "An instantaneous

electronic color-film analyzer," *Jour. SMPTE*, 67: 17-26, Jan. 1958), it has been demonstrated extensively and is now available as Model 1764.

The Analyzer accommodates 35mm and 16mm film widths. The range of the color controls is reported sufficient for any conditions which will be encountered, amounting in log E units to 0.75 in either direction from the central position, or a total of 1.5 in 60 printing steps of 0.025 each. The size of the electronic and optical views is approximately 12 by 16 in., and the operator is seated at about 6 ft from the viewing surfaces. The overall dimensions of the console unit are 41 by 60 by 66 in. in height, width and depth. The display unit measures 66 by 46 by 29 in. The total weight is approximately 1900 lb, and the total power 3.3 kw.

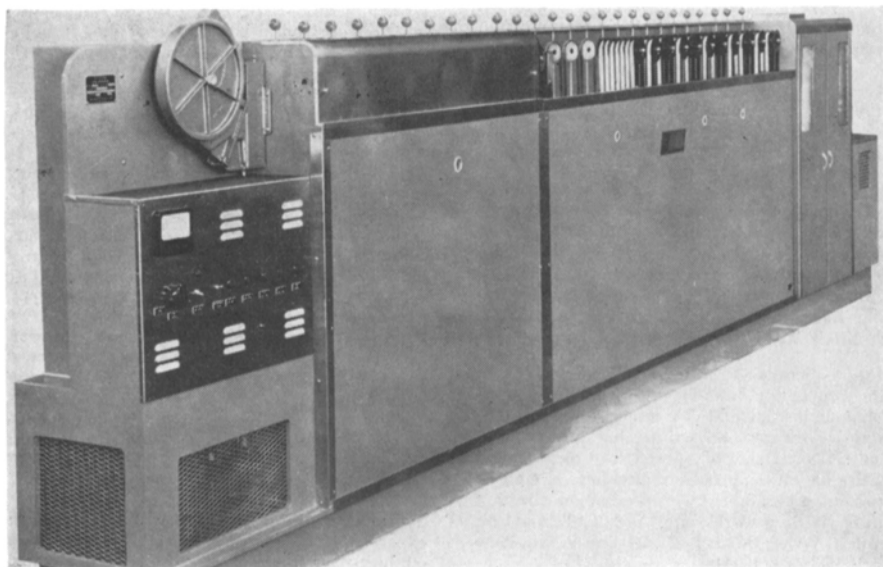
**An automatic program system, V-114A**, has been announced by Foto-Video Laboratories Inc., 36 Commerce Rd., Cedar Grove, N.J. Designed for unattended operation, the system, which includes the control cabinet and Foto-Videoplexer, is especially planned for news, weather, stock reports and for automatic insertion of commercials and announcements. It was field-tested for six months in the Bartlesville, Telemovie project.

**A Birns & Sawyer regional sales office** servicing the States of Texas, Mississippi, Louisiana, Oklahoma and Arkansas, has been established at Dallas by Birns & Sawyer Cine Equipment Co., 8910 Santa Monica Blvd., Los Angeles 46. The new office has its headquarters at the Jamieson Film Co. building, 3825 Bryan St., Dallas. Representatives to producers for the five-state area are Bruce Jamieson and Bill Stokes.



**A Silver Recovery Unit, Model O-57** has been announced by Oscar Fisher Co., Newburgh, N.Y. Designed for the average processing laboratory, the unit employs the same agitation principle used in larger equipment. It gathers silver at the rate of approximately one ounce per hour with a reported operating cost of two to three cents per hour. Plugged into a 110-v a-c outlet, it is virtually automatic. The 5-gal stainless-steel tank, containing the rotation graphite electrodes, is 14 in. in diameter and is 14 in. in overall height.

**Sturelab XI**, a 176-page catalogue listing more than 8000 items, has been announced by S.O.S. Cinema Supply Corp. of 602 W. 52 St., New York 19; and 6331 Hollywood Blvd., Hollywood 28. Seventeen chapters, completely indexed, cover such subjects as 16mm/35mm Studio and Newsreel Cameras; Animation and Special Effects Machines; Lighting for Studio and Video; Technical Books and Stage Scenic Materials, among many others. It is available without charge to members of motion-picture and television industries and to other users of professional motion-picture equipment. Requests should be made on company letterheads.



**The Color Labmaster**, a color film processing machine for 16mm Eastman Ektachrome 7255, and 16mm and 35mm Anscochrome has been announced by Houston Fearless Corp., 11827 W. Olympic Blvd., Los Angeles 64. The machine is automatic and daylight operating. Speed is variable up to 30 frames/min. Features

include a variable clutch drive film transport to prevent film breakage, accurate temperature control of solutions, turbulent washes, double-headed rubber wipers, air squeegee, adjustable lifter rods, filtered-air heat in the drybox and extra film magazines. It is priced at \$18,500.

# MAGIC "MYLAR"\*



TRANSPARENT SPROCKETED PRESSURE SENSITIVE SPlicing TAPE

**SAVE TORN, DAMAGED FILMS, MAKE BUTT SPLICES—EASY AS APPLYING A POSTAGE STAMP TO AN ENVELOPE**

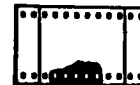
\*Du Pont's Polyester Film

### REPAIR



Torn, damaged films and film strips, patch cuts, tears, gouges, nicks, burns, etc.

### REPLACE



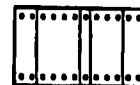
torn perforations on sound or silent film strips—missing pieces of film—restore torn out bits of film.

### BUTT-SPLICE



without losing a single frame of your film strip or movie film—butt splice leaders and tails—no cement or splicers needed.

### OVERLAP SPLICES



placing a frame of Magic "Mylar" over regular overlap splice prevents it from opening.

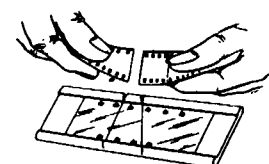
### MAGIC "MYLAR" PRICE LIST

66 ft. roll 16 MM Single Perforation (1650 Frames) @ \$5.00 per roll  
 66 ft. roll 16 MM Double Perforation (1650 Frames) @ \$5.00 per roll  
 66 ft. roll 35 MM For Film strips (1056 Frames) @ \$9.00 per roll



### BUTT-SPLICE & FILM-REPAIR BLOCKS

A new, amazingly simple device for butt-splicing 16 mm and 35 mm film with Magic "Mylar". Simple as ABC.



MODEL B-16 for 16 mm..... \$ 9.50  
 MODEL B-35 for 35 mm..... \$12.50  
 MODEL B-4 for 1/4" magnetic tape \$ 6.50  
 MODEL BSB comb. unit for 16/35 mm and 1/4" magnetic tape..... \$24.50

Send for illustrated brochure

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 68 W. 45th ST., N. Y. MU 2-2928