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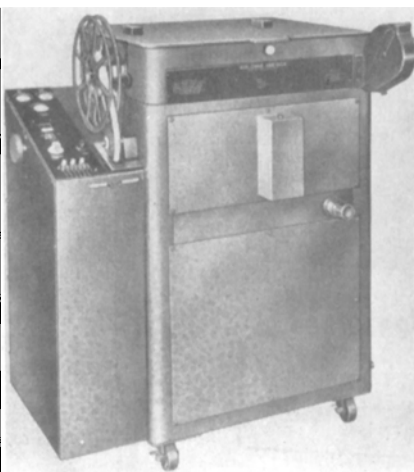
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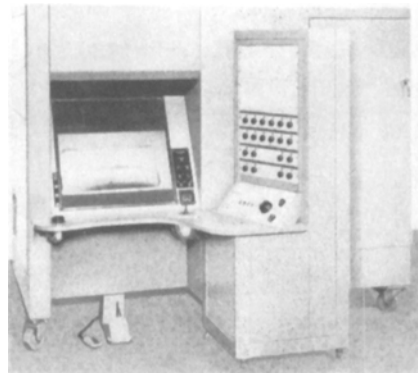
The Spectra "Combi-500," an ultra-sensitive exposure meter designed especially for use with high-speed films, has been announced by Photo Research Corp., 837 North Cahuenga Blvd., Hollywood 38. Design of the meter is based on a combination of a selenium cell and a newly developed extremely sensitive photoconductive cell. A tiny, easily accessible mercury battery is incorporated for use only with the ultra-sensitive range but is not required for normal exposure conditions. The firm has offered to convert any Spectra Professional Meter to the "Combi-500" for a nominal price.



A new color processor has been announced by Andre Debrie Mfg. Co., subsidiary of Belock Instrument Corp., College Point 56, Long Island, N.Y. Designed for compactness and economy, it is the same size as the firm's Aiglonne processor (*Journal*, p. 54, Jan. 1958). Tests on the new machine have established its ability to process Kodacolor 35mm and a series of tests is being conducted on Ektachrome 16mm, Anscochrome, and Anscochrome 16mm, which, according to the announcement, have so far indicated the "same results as . . . Kodacolor test."

Minor adjustments, involving changing chemicals and turning certain valves on or off, will enable the machine to process

black-and-white as well as color. During final testing, Kodacolor was reported processed at rates and temperatures ranging from 40 ft/hr at 75 F to 80 ft/hr at 85 F with identical results. Developing times were from 12 min at slow speed to 8 min at top speed. The machine features automatic controlled replenishment and the estimated amount of chemicals required is 1 gal per 1000 ft. Temperatures are held to $\pm \frac{1}{2}^\circ$ and speeds are variable. The 35mm model is priced at \$4975 and the 16mm model is priced at \$5550.



A laboratory instrument called the Hermes Precision Film Reader has been designed by the Special Equipments Division of Itek Laboratories, A Division of Itek Corp., 10 Maguire Rd., Lexington 73, Mass., for the analysis of photographs of nuclear tracks in bubble chambers. Recently announced as commercially available, the instrument is used for the semiautomatic conversion of photographic data to digital form. The instrument is said to be capable of being adapted for use in such fields as astronomy and satellite or missile tracking.

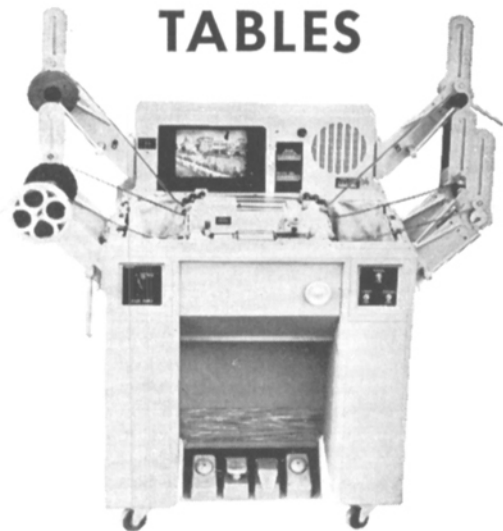
A new table model hot splicer, announced by Hollywood Film Co., 956 Seward St., Hollywood 38, handles 16mm or 35mm film on separate pins. The machine, called the FSC-13, is supplied with 0.072 splice width on 35mm and for A&B splice on 16mm, although any splice width can be supplied for either the 16mm or 35mm at no extra charge. The splicer is priced at \$329.50.

Also announced is a Heavy Duty Torque Motor Rewind with double tightwind for winding 16mm or 35mm film in rolls up to 3000 ft. Used for film inspection, the machine can be stopped by hand without causing film damage. Film can be handled on reels or cores and a powerstat attachment is used to vary the speed. The machine is available with a toggle switch or foot control. It is priced at \$240.

An ultra-high-speed flash source designed to provide a single point-source light pulse of high intensity with a duration as short as 0.3 μ sec has been announced by Unilectron, Inc., 129 Binney St., Cambridge 42, Mass. The flash source, called Sync'd Submicrosecond Light Pulse Generator, is produced in four models to provide energy levels from 2 to 20 joules with durations from 0.3 to 1 μ sec. The point source size ranges from 0.015 in. to 0.060 in. diameter, depending upon the

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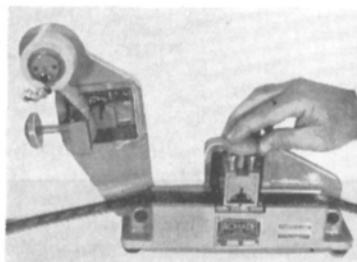
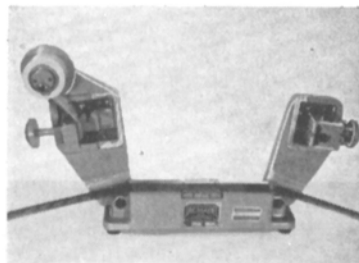
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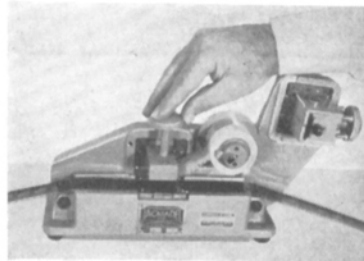
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The first practical, speedy and efficient automatic splicer and perforated adhesive tape (Magic Mylar) applicator on the market. Now, with no fuss, mess or waste, it is possible to splice, repair, butt-splice, or strengthen splices on all types of film—positive, negative, magnetic—even duPont Cronar or other bases.



The cutting arm, shown in operating position, is used by pressing the chrome button for cutting both sides of the film simultaneously. The film, of course, has been registered on pins in the horizontal channel. The cutting blade is easily replaced when necessary.

The splicing tape is registered on precision pins and held in place until automatically applied to the film by swinging the arm over and pressing the chromed button. This action simultaneously cuts the adhesive and applies it—in perfect register to the film.



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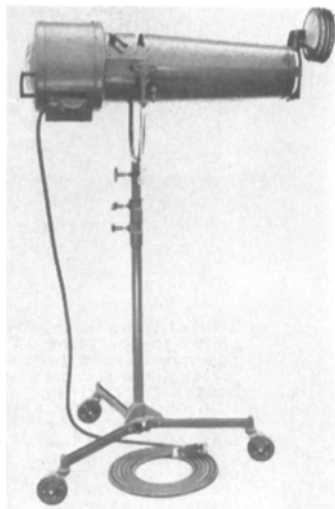
- 20 ft. rolls — transparent 16mm — single perforation (T16S) at \$2.20
- 66 ft. rolls — transparent 16mm — single perforation (T16S) at \$6.00
- 20 ft. rolls — transparent 16mm — double perforation (T16D) at \$2.20
- 66 ft. rolls — transparent 16mm — double perforation (T16D) at \$6.00
- 20 ft. rolls — transparent 35mm (T-35) at \$4.04
- 66 ft. rolls — transparent 35mm (T-35) at \$11.00
- 66 ft. rolls—white opaque—16mm—magnetic film only (0-16) at \$6.00
- 66 ft. rolls — white opaque — 35mm (0-35) at \$11.00
- 1/4" splicing tape for magnetic tape (S4) at \$.57

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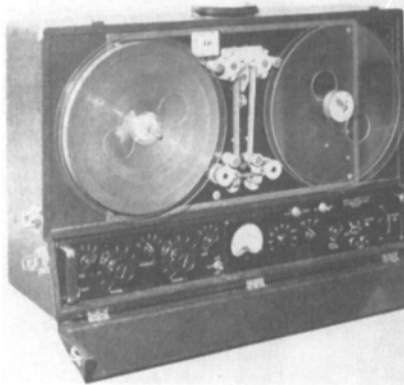
City

energy level. Designed for use with the firm's Nanosecond Kerr Cell Shutter, the light pulse output can be synchronized with a hypervelocity event and the opening of the shutter. Applications include schlieren and shadowgraph systems, carrier life testing of semiconductors, ballistic range photography and other events requiring a light pulse of an extremely short duration. The unit measures 12½ in. in length and 5 in. in diameter. It is priced at \$900.



The Molenser, a spotlight designed for use in small theaters, TV studios, schools,

etc., has been announced by Mole-Richardson Co., 937 North Sycamore Ave., Hollywood 38. The spotlight uses standard 1000- or 2000-w motion-picture globes and has a three-lens system consisting of two stationary lenses and one focusing lens. The spot size is controlled by an iris and a matt, used together or separately. The basic unit weighs 43 lb and is 39 in. long. It is priced at \$325. Accessories, including pedestal, iris, matts, diffuser changer and diffuser frame are available at additional cost.



A portable transistorized magnetic recorder weighing only 59 lb has been announced by Smith & Cross Pty. Ltd., 161 Macpherson St., Bronte, N.S.W., Australia. Overall dimensions are 26½ by 16½ by 8½ in. Designed especially for use on loca-

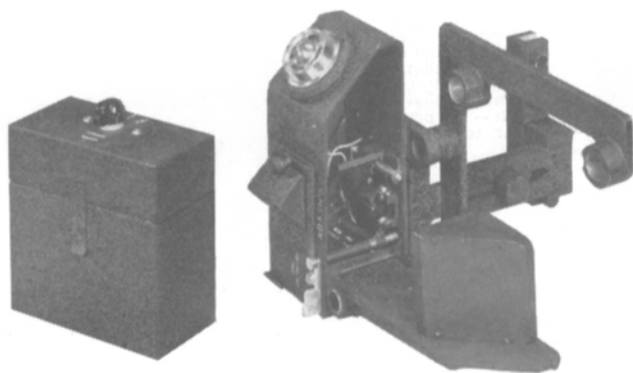
tion as well as studio use, it has a film capacity of 1000 ft. The unit is available for either 17½mm film, operating at a rate of 90 or 45 ft/min, or 16mm at 36 ft/min. It can be run on single-phase or 3-phase supply. The amplifiers are operated from internal batteries, 18 v for record and playback and 15 v for the monitor amplifier. The film path is enclosed in a hinged cover and is protected from weather and dust. A relay switches the monitor circuits from record to relay when the motor starts. The recorder has two microphone inputs with high-level mixing, using solid molded carbon, bridged-T attenuators, with separate dialogue equalizers in each channel and a presence equalizer in the combined output. There is also provision for using a separate remote mixer.

A miniaturized experimental transistor described as being "so small that 20,000 can fit on a postage stamp" has been developed at the RCA David Sarnoff Research Center. The active material in the almost invisible transistor is cadmium sulfide. An evaporation process is used to deposit thin layers of cadmium sulfide and a metal on a glass plate. A special mask is used to cover portions of the plate during the process so that the metal layers are deposited in a pattern that forms the electrical contacts needed to operate the transistor. In operation the insulating properties of the cadmium sulfide hamper the flow of electrons between the two electrodes and the third element provides control by increasing the flow in varying degrees. Possible applications suggested in the announcement include "shrinking the basic circuitry of a computer to the size of a book page."

The Type BD 896 Vidicon Camera Channel produced by Marconi's Wireless Telegraph Co., Chelmsford, Essex, England, designed primarily for telecine and similar applications, is constructed so as to have a high degree of interchangeability with the BD 863 Image Orthicon Camera Channel. For purposes of maintenance, the picture and waveform monitor, camera control and power supply are identical. The channel may be switched from one to another of the three standards (405-, 525- and 625-line) and the aperture correction may be switched from and to 16mm and 35mm slide settings.

The TVC High-Definition Telerecorder announced by Taylor Video Corp., Lakeshore Studios, Toronto, Canada, features a fast pulldown camera to take the obscuring shutter splice out of the picture into the vertical blanking and thus eliminate the need for shutter correction. The picture tube has an infinite fine spot size for highest horizontal resolution and two variable spot wobbles for filling in blank spaces between the scanning lines. The machine has a three-section electronic gamma correction to allow individual correction of the white region, the black region, and the medium gray region.

Tiros III constructed, like its two predecessor weather satellites, at the Princeton, N. J., Space Center of RCA's Astro-



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Electronics Division under the supervision of Sidney Sternberg, is identical in size and shape to Tiros I and II, but incorporates some changes and additional equipment. Instead of carrying one wide-angle and one narrow-angle TV camera, the new Tiros carries two wide-angle cameras. It also carries an experimental infrared sensing system to measure heat radiation coming from the sun toward the



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Positions Wanted

Supervisory Photographic Technologist. Excellent instrumentation background obtained at four leading ordnance and missile Test Centers. Wide knowledge of cameras, lenses, mounts; including metric, engineering sequential, and documentary types. Broad film background. Supr. photo lab for 4 yrs. Purchasing and quality control background. Complete résumé upon request. Will relocate. Robert J. Millikin, 148 St. George Rd, Melbourne, Fla. PA 3-7819.

Cameraman/Producer. Extensive cine and still experience in training, public relations and industrial fields. Also experienced in cutting and sound recording. High-quality, low-budget script-to-screen producer. Interested in photo-instrumentation. Electronic engineering background. Recently completed Arctic assignment. Seeking challenging position in photography enabling use of past experience. Willing to travel and relocate worldwide. J.C.K., 3351 Alma St., Apt. 328, Palo Alto, Calif. DAvenport 6-2737.

Sound Recording Technician. Over 5 yrs experience in all phases of sound recording. Thoroughly familiar with mixing and recording sound for motion pictures, editing magnetic tapes and producing tapes for TV and radio. Interested in a permanent position with future. Willing to relocate. Thomas J. Hamneral, 137 92nd St., Brooklyn 9, N.Y. SH 5-7172.

Film Production Supervisor. 20 yrs experience in motion-picture and general photographic production. Presently in supervisory position in large implant unit. Experienced in documentary, training and P.R. film productions. Do "A & B" cutting and sound recording. Hold Secret and "Q" Clearances. Resume upon request. Would consider Tech. Rep. position. Mo-pic, P.O. Box 9123, Montclair Station, Denver 20, Colo.

Credit and Office Manager Accountant. Efficient executive administrator, systems developer, personnel training and customer relation setups. Eight years film laboratory experience. Highest credentials. Résumé upon request. S. C. Robbins, 315 East 196 St., New York 58.

earth and the amounts absorbed and reflected by the earth and its atmosphere. Tiros III has also been improved by the use of new transistorized circuits in the two electronic "clocks" which trigger the operation of the cameras and other equipment at any desired point in orbit in accordance with the program that is sent to the satellite as it passes within range of a ground station.

Position in engineering department of motion-picture laboratory or equipment manufacturer. Thirty years experience as supervisor in Engineering Department of Consolidated Film Ind., Fort Lee, N.J. Experience includes machine shop, construction and maintenance of printers, developing machines and other film equipment. Also assisted in design and development. Irving Fox, 3214 Kingsbridge Ave., Bronx 63, N.Y.

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Assistant Chief Engineer. Seeking college graduate electronics engineer to assist Chief Engineer of commercial VHF television station in growing market. CBS affiliate; progressive management with long broadcast experience; good record of low personnel turnover. Majority of equipment RCA; two Ampex Videotape Recorders; maximum power; 1000-ft tower. Applicant should be capable of doing design and construction work, and should have some administrative ability. Salary commensurate with experience and ability. Replies treated in confidence. Write Chief Engineer, WLAC-TV, Nashville, Tenn.

Sales Representative for well known motion-picture processing laboratory, N.Y.C. Experienced in laboratory processes, motion-picture production, sound recording and re-recording operations. Must be able to deal with professional cameramen, producers and directors in the advertising and educational fields. Salary open. Unusual opportunity for advancement. Outstanding company benefits. Send résumé in complete confidence, including salary desired, to: HOKAR Corp., 110 West 40 St., New York, N.Y.

Assistant to Owner of Film Lab. Unusual opportunity for man who is expert in timing and printing 16mm color and black & white. Must also have basic knowledge of general business practices and be endowed with the ability to lead and supervise. Write to CINE-CRAFT, 8764 Beverly Blvd., West Hollywood 48, California.

Staff Director, for medium-sized production company located in Louisville, Kentucky. Must have credits for TV commercials, industrials and slidefilms. Basic requirement is a creative attitude. We offer unlimited opportunities, pay in accord with experience, and an expanding company with which to be associated. Although location work is to be expected, off hours are pleasantly spent in this friendly, midwestern community. All replies are held in confidence. Vogue Film Productions, Inc., Bowman Field, Louisville, Ky.

Motion-Picture Laboratory Engineer. Experienced in lab procedures, design and maintenance of motion-picture lab equipment. Knowledge of air conditioning, chemical piping and pumps desirable. Located New York City. Send resume giving experience and salary desired to Box 1979, 125 West 41 St., New York 36.

Television Broadcast Technician. Seeking experienced, qualified television technician for maintenance and operation at commercial VHF