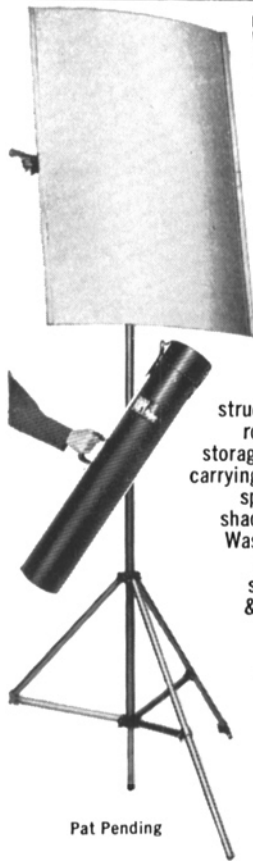


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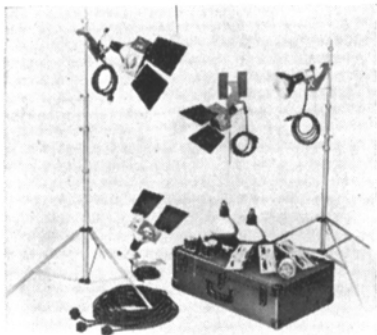
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accelerometers and some accelerometers of different types.—S.C.G.

(Translated from *Referativnyi Zhur., Fotokinetekhnika.*)

Apparatus for the Semiautomatic Construction of Graphs of the Fluctuation of an Object Recorded on Motion-Picture Film (in Russian), S. R. Barbanel' and S. M. Pertsev, *Trudy Leningrad. Inst. Kinoinzh.*, No. 8, 17-23, 1962; *Referativnyi Zhur., Fotokinetekhnika*, Abstract No. 2.46.-297, 1963.

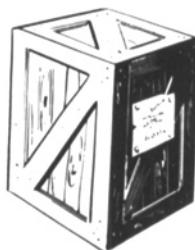
A short description is given of the construction and working principles of the apparatus. The graphs are produced on two paper bands moving separately along the x and y axes, the abscissa being in each

case the time t, determined from the frame frequency.—S.C.G.

(Translated from *Referativnyi Zhur., Fotokinetekhnika.*)

The Use of Densitometers for the Measurement of Higher Densities in Soundtracks (in Russian), E. V. Ksandrov and B. P. Chernyavskii, *Tekhn. Kino i Televideniya*, 7: 70-71, Mar. 1963.

A new sound-recording film used in the Soviet Union makes use of densities up to 4, while the densitometers in the authors' film studios measured up to a density of 3 only. A brief account is given of the alterations that were made to a densitometer in order to read the higher densities.—S.C.G.



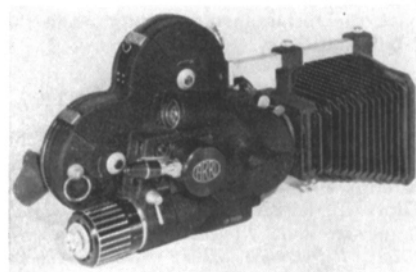
new products

(and developments)

.....
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tions. Black-and-white negatives are then made from the color separations and used in reproducing the color images on black-and-white stock. Thus the colors are recombined by optically printing on a single black-and-white positive film stock to form a reproduction of the original. The optical printing requires no printing dye and another advantage is that it allows for instantaneous color, i.e., correction of scenes without changing the basic and costly printing dyes.

A 35mm multidata high-speed intermittent camera, the Model 705, has been announced by Flight Research, Inc., P.O. Box 1-F, Richmond 1, Va. The camera has been designed for instrumentation and documentary use where steady, high-resolution pictures are required in the range from 25 frames/sec to 300 frames/sec. A newly designed epicyclic film-transport and register-pin mechanism is used to lessen vibration and operation noise. The circular claw movement rotates at constant speed to smooth acceleration and deceleration of the film. The claw and register pins are phased so that the film is under positive control and each perforation is used only once either for pulldown or registration. The film feed and take-up mechanism is all-mechanical for reliability in stop-start operation. The camera is powered by a 2/3-hp motor.



A newly developed strobe flash synchronization installation for all Arriflex-16 cameras has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York 10. The installation is based on a

ERRATUM: The information supplied to the *Journal* and published as an item entitled "Precision Film Editor" on p. 655 of the August issue was misleading. The equipment shown in the illustration is, in fact, the S.O.S. TV Newsfilm Projectola Editing/Timing Outfit, marketed by S.O.S. Photo-Cine-Optics, Inc., 602 West 52 St., New York 10019, at a price of \$679. The description and price under the illustration refer only to the Model S616-2SP Synchronizer, a patented product of Precision Laboratories Div., Precision Cine Equipment Corp., 928-930 East 51 St., Brooklyn 3, N.Y. The synchronizer, priced at \$303, is one element of the S.O.S. Projectola equipment, which is described in the September issue, p. 765.

The first feature length film in Panacolor, *The Castilian*, produced by Sidney Pink for Warner Bros., was premiered in Chicago September 6. The Panacolor process is an economical color film printing method which, in a fully-automatic and continuous 3-stage printing and chemical process produces color release prints on black-and-white positive film stock. The process involves separating the colors of the negative into three positive color separa-

reluctance probe which produces a micro-pulse in synchronism with the camera shutter. With suitable amplification, the pulse will provide firing voltage for all electronic flash equipment at all framing rates. Probe output is on the order of 30 mv and requires a d-c amplifier with flat response down to about 4 cps and capable of 40-db voltage gain. Said to be excellent for all high-intensity, high-frequency strobe systems, the installation is suitable for "pulse burst" flash operation, in which each synchronizing pulse from the camera triggers a series of precisely spaced strobe light pulses. Advantages of the system are said to include freedom from arcing and contact bounce, absence of significant mechanical wear, and freedom from drag and other mechanical interference with normal operation of the camera. While designed especially for strobe synchronization, the installation is said to be useful, also, in applications where a well defined electrical pulse in synchronism with camera shutter is required. The price is about \$280.

High-speed and instrumentation equipment developed by Abtronics Inc., 64 South P St., Livermore, Calif., includes the Model 3 Electronic Camera which is a self-contained framing camera with exposure times per frame of 0.01, 0.05, 0.1 and 1.0 μ sec and effective framing rates of 100 million frames/sec. The camera consists of three basic units: two 2-channel time delay generators; a 4-channel pulse unit; and a 4-frame recording unit. The time-delay generators and the pulse unit are mounted together in a cabinet with the 4-frame recording unit mounted on top. The recording unit is on movable mounts so that it may be tilted in the horizontal and vertical directions. It is equipped to use both standard Polaroid film and 4 by 5 Graphic-type accessories. The entire recording unit may be removed from the top of the cabinet and mounted on any other suitable support. The interconnecting cables are approximately 3 ft long but longer cables may be used with a slight increase in minimum exposure time.

Also available is the Model 3-4R Camera which is identical to the Model 3 except that instead of one 4-frame recording unit it has four individual single-frame recording units. Each recording unit is connected to the main unit by approximately 6 ft of cable, thereby allowing about 12 ft of separation between recording units. The Model 3 camera is priced at \$12,500 and the Model 3-4R camera is priced at \$14,500.

The firm has also recently announced its biplaner Image Converter Tube IC 12, designed primarily for use as a high-speed electronic shutter for photographic purposes. Both cathode and anode diameter are 1.2 in., resolution is 10 lines/mm (min); phosphor type, P11; cathode sensitivity, 30 microamp/lumen (norm); cathode response, S11; anode current, steady, 10 microamp, pulse 10 amp. It is priced at \$500.

The IC 12 is used with the firm's Model 2HS Electronic Camera to provide a single-frame exposure with provisions for combining any number of units in a system for multiple-frame applications. A switch on the control panel permits

selection of exposure times of 0.01, 0.03, and 0.10 μ sec. For focusing and alignment of the image, a d-c voltage is applied to the image converter tube. The anode image may then be viewed through a conveniently located port. A mechanical shutter on the recording camera prevents exposing film while focusing and adjusting. The time delay between the trigger input and the exposure may be set with the "Time Delay" control which is continuously adjustable from 0.5 to 100 μ sec. A trigger output from the delay circuit can be used to trigger additional units in sequence so that any number of the cameras may be incorporated into a system. The camera is priced at \$4,250.

The firm has descriptions and specification sheets for these and also other equipments available.

The Photorecorder system, which makes possible direct recording of alphabetic or numeric data onto film, frame by frame, at rates exceeding 2,500 frames/sec, has been described in a folder by Adtrol Electronics Inc., 116 N. 7th St., Philadelphia 6. The system was developed to solve certain problems relating to correlation of real time data with photography. The system uses a matrix of ultraminiature light sources encapsulated in a recording head which is mounted within the camera. The characters or numbers are formed by remotely turning on the appropriate light sources in the matrix. Speed and directivity of the light are such that no exposure overlap occurs. The light energy level is suf-

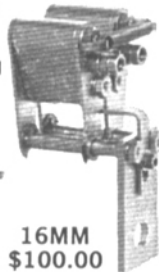
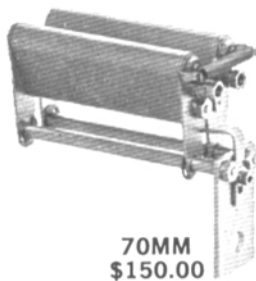
ficient to permit recording on virtually all types of emulsions from high-speed films and papers to low-speed direct printout papers and microfilm. Format can be either perpendicular or parallel to film travel for both intermittent or continuous motion cameras.

Elements of a typical Photorecorder system to record real time include a timing section and a recording section. The timing unit contains a time code generator which produces in millisecond increments of elapsed time; a counter which provides a numeric display of the elapsed time in milliseconds; and a distributor, which consists of a buffer and distribution stage for each of the numeric decades of the time code generator. The distributor permits the driving of up to ten remotely located recording stations. The recording section contains the necessary logic and electronics, and includes the recording head mounted within the camera. The system can be operated automatically with an external start-stop pulse that initiates the timing signal in the time code generator, or it can be controlled manually by a start-stop pushbutton on the front panel of the unit.

The S.O.S. Soundseal Blimp for Arriflex 16mm cameras has been announced by S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 10019. The blimp, made of glass fiber and lined with rubber-bonded nylon, weighs about 13 lb. Announced as having a "skin-tight" fit for complete silence, it is designed to eliminate rock and vibra-

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tion to permit the cameraman to pan, tilt or angle the camera the desired way. Features include four interior lights which illuminate the tachometer and frame counter, the magazine footage counter, iris or focusing scale, and the camera's interior. The design permits addition of a pulse sync generator for double system recording with a 1/4-in. tape recorder. The blimp is priced at \$1300.00.

Three new Anscochrome type films for color motion pictures have been announced by the Photo & Repro Division of General Aniline & Film Corp., Binghamton, N.Y. Based on application of new chemical formulations, the films are designated D/100; T/100; and D/200. The Anscochrome D/100 is a daylight balanced, high-speed (100) color reversal film said to produce brilliant color pictures by daylight illumination. The T/100 is a fast tungsten film balanced for 3200 K lamps with a film speed of 100. The D/200 is an extremely high speed (200) daylight balanced color reversal film for low light level situations and high-speed studies. All three films are available in standard lengths of 16mm, 35mm, and 70mm sizes.

Two new recording tapes and a magnetic sound recording film all utilizing a new resin binder have been announced by the Magnetic Products Sales Division, Eastman Kodak Co., Rochester 4, N.Y. The new sound recording film, Type A704, is said to have an undistorted output that has been increased 40% over that of the earlier Type A701 due to the use of the new resin binder which is matched to a selected oxide. The new binder makes for a smoother coating, thus reducing noise and intermodulation distortion. Replacing chlorinated bindings, it has a high degree of chemical stability to extend the useful life of a recorded library.

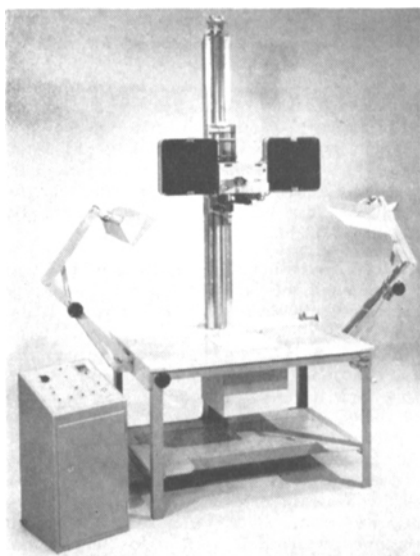
The new tapes, Type A303 and Type A304, utilize the new resin binder and are on a polyester base and on an improved Durol base, which is a modified triacetate about 40% stronger than conventional triacetate. The Type A303 tape is basically a low-print tape with a signal-to-print ratio of 54 db. High-frequency sensitivity and undistorted output are reported as having been increased about 33% over that of conventional general purpose tapes. Type A304 is a high-output tape which is said to have more than double the undistorted output of conventional tapes.

A television tape recording system for the home called the Ampex Signature V and a portable broadcast television tape recorder, the Ampex VR-660, have been introduced by Ampex Corp., 401 Broadway, Redwood City, Calif. The Signature V includes a compact television tape recorder, television camera and receiver and a stereophonic high-fidelity sound system for record and playback. It can record television programs off the air or make home television tapes for immediate playback. A special timing mechanism permits the television recorder to be pre-set to record a given TV program while the owner is absent so that he may view it later. Also, the recorder will record one program

while a different program is being viewed on the television set. The system is marketed exclusively in the United States by Nieman-Marcus of Dallas and will be featured in its Christmas catalog. It is priced at \$30,000.

The VR-660 weighs slightly less than 100 lb and has been designed for mobile and studio use by network, commercial and educational broadcasters. It has the same basic design as the VR-1500 closed-circuit television recorder but it incorporates electronic advances which enable it to produce television pictures which meet FCC standards for broadcasts without additional equipment. Tapes recorded on the VR-1500 can be played on the air with the VR-660. The VR-660 is available in both a 60-cycle and a 50-cycle version. It is priced at \$14,500.

The TV IF4 field zoom lens, designed specifically for image-orthicon television cameras, has been announced by Canon Camera Co., 30 E. 42 St., New York 17. It is used principally for field broadcasting, broadcasting from theaters, and from other locations outside a broadcasting station. Features of the new lens include sharpness, wide zooming ratio, brightness and interchangeability of its relay lens.



The Emby-Homrich 35mm Copy-Animation Stand for making slides, filmstrip masters, and animated movies has been announced by Sickles Sales & Service Co., 6744 E. Culver St., Scottsdale, Ariz. The unit consists of a 35mm camera mounted on a long, vertical column. The steel base has a wood table top with a built-in illuminator and adjustable copy lights. The console houses all the operating mechanisms and has a control panel on top. The camera has been designed with a sturdy shutter mirror for true reflex focus, and a magnifier can be swung over the ground glass so that the light projects the frame area and a focus reticle onto the copy material. A switch alters the advance electrically for either a single or double rotation of the Geneva star transport. Film can be rewind completely or frame by frame. The copy table has a built-in 10 x 10 illuminator. The console accessory compartment has film carriers for 8 x 10 and 5 x 7 as well as a condenser stage for

4 x 5 and a smaller stage for 2 1/4 sq to 35mm slides. A crank on the right front side of the table raises or lowers the camera head. The unit is priced at \$5,950.



The Sylvac Control, a compact, light-weight electronic control for regulating light output and color temperature of Sun Gun Photo Lights, has been introduced by Sylvania Electric Products Inc., a subsidiary of General Telephone & Electronics Corp., 730 Third Ave., New York 17. The control plugs into a standard 120-v a-c outlet and the photo light plugs directly into the control. At line voltage of 120-v a simple adjustment of the controls makes it possible to vary light output continuously from zero up to full brightness or to select color temperatures up to 3400 K. Solid

state components are used including a silicon diode, and a unijunction transistor. The SV-9 model weighs 4 lb and is 7 in. long, 6 3/4 in. wide, and 3 1/2 in. high. A 20-amp model, the SV-20 is also available. The SV-9 is priced at under \$60.00 and the SV-20 is priced at under \$120.



A new Midget Solarspot, Type 2351, has been announced by Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood 90038. Globe sizes from 50-w to 200-w can be used. Designed to allow maximum globe life through cool operation, it is said to have no light leak, making possible its use near any camera lens. The new Midget has a focusable beam with adjustable intensity spot size. Included is a 4 1/2-in. Fresnel condenser and Alzak aluminum mirror. Weight is 6 1/2 lb on the 5 1/2-in. baseplate.

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A new xenon arc light source for 16mm projection has been announced by Strong Electric Corp., 79 City Park Ave., Toledo 1, Ohio. The light source utilizes tungsten electrodes to provide an arc in a xenon gas atmosphere enclosed in a quartz envelope. No moving parts are employed and no special cooling is required. The igniter is built into the lamphouse and provides the proper starting or ignition voltage. The associated silicon diode transformer-rectifier is specially designed to provide the exact current characteristic and regulation capability for optimum operation of the light source.

Light sources reported to have achieved intensities as high as 714,000 centerbeam-candlepower have been announced by ColorTran Industries, 630 S. Flower St., Burbank, Calif. Manufactured by Sylvania, the lamps are designed to combine advantages of quartz-iodine light sources and sealed-beam construction. Developed mainly for high-speed photography the lamps are available in either 650-w or 1000-w and in four different lens styles ranging from very narrow spot to wide flood. The 650-w lamps are priced at \$27.95 and the 1000-w lamps are priced at \$31.75. Kits are also available containing a Model LCQ CineQueen housing, choice of new Sylvania lamp, Model SSBL Bentleg stand and either a Model CMD1-10 MiniDyne 1000 Electronic Dimmer or a Model GMD1-6 MiniDyne 650 Electronic Dimmer. The Speed-Queen 650 Kit is

priced at \$191.50 and the 1000 Kit is priced at \$220.45.

A burst chart used as an aid in measuring accurately the frequency response of television cameras throughout their entire optical and electronic systems has been developed by the RCA Broadcast and Communications Products Division. The chart is reproduced on heavy, nonreflecting plastic stock and consists of groups of vertical lines which correspond to the various signal frequencies from 0.4 to 4 mc. When the camera is focused on the chart the overall frequency response of the system may be observed directly on a TV waveform monitor. The charts are available at nominal cost, from the Studio Equipment Merchandising Department, Bldg. 15-7, RCA, Camden, N.J.

A new and harder tip material called Alfesil will be used in new video head assemblies, according to an announcement by Ampex Corp., 401 Broadway, Redwood City, Calif. The new material will also be used in refurbishing head assemblies. Field tests of the new material are said to show head life increases up to 100% over previous tip materials. Other features include better uniformity of magnetic properties, resulting in improved performance with respect to frequency response, signal-to-noise ratio and interchangeability. Initial permeability is said to be higher with the the new Alfesil tips than with the older Alfenol tips. The new refurbishing price is \$550, an increase of \$25 over the former price.



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Audio-Visual Specialist/Production Assistant. Creative and energetic young woman with 6 yrs experience all phases motion-picture and film-strip production, writing, promotion and preparation of audio-visual materials for commercial and educational use, wishes position in New York City area with film production company, TV company, advertising agency or educational organization. Seeking position of responsibility with opportunity for advancement and broadening experience. Formerly Technical Supervisor of the Museum of Modern Art Film Library, presently employed as TV production assistant. Resume on request. Write: Jo-Ann Ordano, P.O. Box 2556, Grand Central Station, New York 17, N.Y., or telephone (201) OL 2-6037.

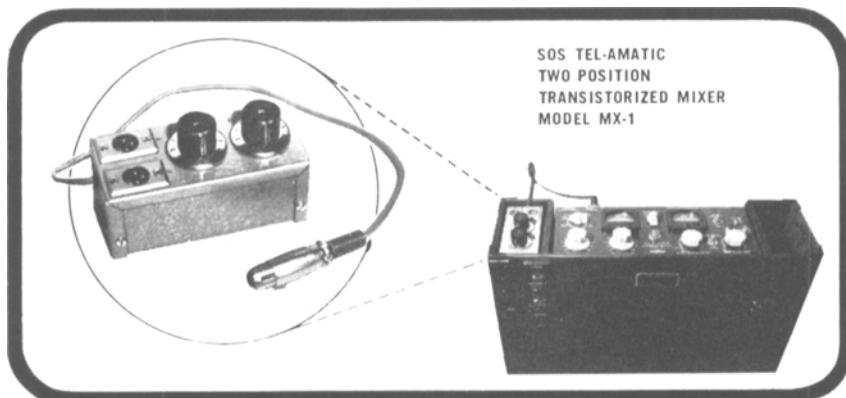
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