

# new products

(and developments)

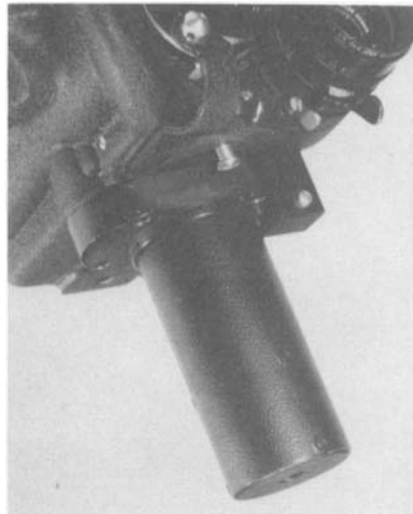
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

A new Locam camera has been announced by Redlake Corp., Photo Instrument Div., 2991 Corvin Dr., Santa Clara, CA 95051. It is an intermittent, pin-registered, high-speed camera with a sampling rate of 8 to 500 pictures/s. It has the same features as the earlier Locam including life-time lubrication and modular construction of camera movement, motor and speed control. New features of the second generation Locam include a variable shutter, self-retracting internal reflex optics and light-emitting diode timing lights. The shutter opening can be varied from 0 to 160° by a simple adjustment through an access in the front panel. A VIEW knob on the front panel actuates the boresight prism assembly in the camera so that focusing and viewing through the lens can be accomplished without opening the film compartment. Dual light-emitting diodes are included as timing lights in all Locam cameras. The new Locam can be used in a rugged high-gravity environment by adding a ruggedized lens mount to the front plate and using a Redlake ruggedized lens. The camera is priced at \$3,355.

A new model of the Bauer C Royal 10-Zoom super-8 camera which has a synchron-contact feature has been announced by Allied Impex Corp., 168 Glen Cove Rd., Carle Pl., L.I., NY 11514. The new feature allows the use of an electronic flash for single frame exposures. One flash is fired for each frame. The flash unit is mounted to the camera with a holding bracket. Distance and lens opening can be determined by means of the *f*/stop calculator on the flash unit. The lens is then corrected by opening one full stop and setting the *f*/stop "manually" on the camera. The new feature also enables the production of lip-synchronized movies with the use of suitable sound synchronizing equipment. The single frame exposures are achieved with the Bauer Trick Set/Intervalometer or by means of a cable release. The camera is priced at about \$675. The Bauer Trick Set, which automates the lap dissolve feature and enables time-lapse photography, is priced at \$99.95.

A new crystal-controlled motor, Model CRM-3, for the Mitchell Mark II and S35R cameras, has been announced by

Cinema Products, 2044 Cotner Ave., Los Angeles, CA 90025. The motor has sync speeds of 24 and 25 frames/s, forward and reverse, with an accuracy of  $\pm 15$  parts per million over a temperature range of 0°F to 140°F. A warning tone indicates out-of-sync condition. The motor also has variable speed capability from  $\frac{1}{2}$  frame/s to 36 frames/s. It is designed to work from any battery in the range of 24 to 36 V. Current drain at full load is 3 A. The motor can be operated inside a Mark II/S35R blimp with a modification to the blimp housing. The motor is priced at \$2,250. The price includes a power cable with in-line switch and optional 25 frames/s tach gear. Modification to the motor blimp is priced at \$150.



A compact crystal-controlled motor for the Arri 35mm camera, Model CRA-4, has been announced by Cinema Products, 2044 Cotner Ave., Los Angeles, CA 90025. All the electronics are contained within the motor housing. The motor permits normal handheld sync filming from any Arri battery pack. A companion flat base with a built-in footage counter permits filming from a tripod, body pod or in a Cine 60 blimp. An adapter bracket permits operation of the motor and flat base in the Arri 120 S blimp. The motor is designed to have an accuracy of  $\pm 15$  parts per million over a temperature range of 0°F to 140°F. Power consumption is 1.5 A maximum full load current. The motor is priced at \$1,250. The flat base is available at a price of \$325, and the adapter bracket is priced at \$50.

The Super Grip Camera Mount is distributed in the United States exclusively by Alan Gordon Enterprises Inc., 1430 N. Cahuenga Blvd., Hollywood, CA 90028. It can be attached to almost any hard, smooth surface by means of a powerful suction cup to hold the camera in a horizontal, vertical or in-between position. It is priced at \$295.

A 350-W self-contained underwater light for marine cinematography and commercial dive operations has been announced by Farallon Industries, 1333 Old County Rd., Belmont, CA 94002. Designated the ML-350, the light is powered by 24 Ni-Cad D-cells in a specially designed package. It

can use 150-, 250- or 350-W 3400 K lamps interchangeably. The beam spread is continually variable from about 20° to 90°. Using the 150-W lamp, the output is 4200 lm for 45 min; 7000 lm for 25 min with the 250-W lamp and 9800 lm for 16 min with the 350-W lamp. The ML-350 can operate to depths of 300 ft and can be recharged without removing the battery pack from the housing. The price is \$450.



Two new Bell & Howell/Sargent-Welch black-and-white microfilm densitometers have been announced by the Professional Equipment Div., 7100 McCormick Rd., Chicago, IL 60645. Model 036533 is designed to measure ANSI diffuse density from 0 to 4.5 within 0.01 accuracy for negative, positive and reversal emulsions. Model 036557 measures these emulsions plus diazo. Both acetate and polyester type bases can be accommodated. The instrument can be used as a soundtrack densitometer by installing a slit aperture which is 0.3 mm by 4 mm in dimension. Without the addition of the aperture Model 036533 is priced at \$655 and Model 036557 at \$770.

A portable indexing chronometer, Model SP-310, has been announced by Data-metrics, 127 Coolidge Hill Rd., Watertown, MA 02172. The instrument has a low-power, all-silicon integrated unit that provides time information in serial BCD format for real time indexing magnetic tape, camera film, oscillographs and other recording mediums. The unit is provided with a self-contained numeric display and all operating controls. It weighs less than 5 lb and has a self-contained rechargeable battery pack to provide up to 15 h of portable operation. Price range is from \$2,995 to \$4,485, depending on various options.

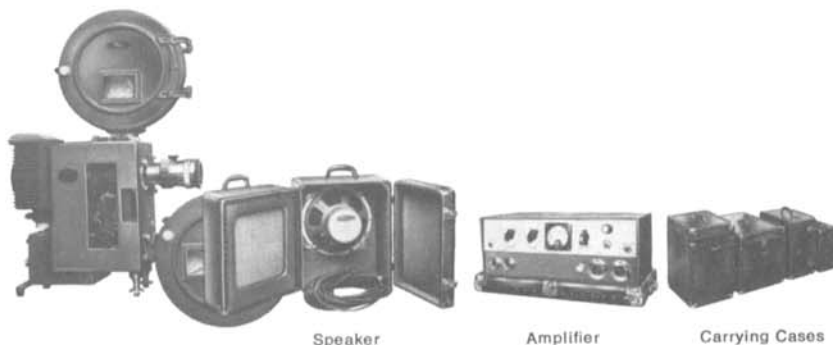
The Super-8 Motion/Analyzer Projector, Model AAP-900V, a frame-by-frame stop motion projector, has been announced by Lafayette Instrument Co., Box 1279, Lafayette, IN 47902. It can be used as a conventional projector or as a frame-by-frame analyzer. Features include complete stop action with no loss of light, instant start and stop, forward and reverse and automatic timing from 1 to 6 frames/s. All operations are remote controlled. Applications include sports studies, biological studies such as cell division, in-



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dustrial time studies, drivers training, analysis of high-speed film and others. The AAP-900V is priced at \$465. Two other models are available, AAP-901V and AAP-902V. Both have a 5-digit resettable frame counter. The AAP-902V has in addition a calibrated frame rate ranging from 1 to 18. The 901V is priced at \$575. The 902V is priced at \$895.



**A professional super-8 xenon projector** has been developed by N.V. Kinotechniek, Domineeslaan 81, Zwanenburg, The Netherlands. It is a color projector which uses a 500-W xenon lamp with a mirror and a

single-phase rectifier. The projector is in two parts — the stand which contains the built-in rectifier and the projector, which can be detached from the stand for portability. During the development of the projector it was found that too much light on the screen was affecting the colors unfavorably so a means of regulating the light by six different light steps was incorporated. The machine can now project on screens at a distance of 3.50 m to 8.00 m without losing sharpness and brilliance. The projector is priced at D. Glds. 11,000 (about \$3,400).



**Two new Panasonic color videotape recorders**, Models NV-3130 and NV-3150, have been announced by Matsushita Electric Corp. of America, Pan Am Bldg., 200 Park Ave., New York, NY 10017. The NV-3130 is a  $\frac{1}{2}$ -in recorder intended for government, institutional and educational

applications. It has been designed to the specifications of the EIAJ recommended color standard and is also compatible with EIAJ #1 standard for recording and playback in black-and-white. An assembly mode editing system permits synchronized, roll-free incorporation of sequences from a variety of sources onto prerecorded tape. Features include HPF heads for longer head life and higher picture quality, an inscribed head drum for sure interchangeability and a dropout/noise compensator that virtually eliminates dropouts from  $\frac{1}{2}$ -in tape. Other features include instant electronic editing, slow motion playback, audio dubbing facility, still framing and automatic lock control. It provides more than 240 lines of horizontal resolution in color and more than 300 lines in black-and-white. It is priced at about \$1500.

The NV-3150 has the same features as the NV-3130 and in addition the same professional features as 1-in machines including fully electronic capstan servo editing with rotary video erase for increased editing quality, capstan control slow motion, stop action, automatic reverse, automatic stop and full remote control. It is equipped with automatic video and audio recording controls, which can also be operated manually, an audio dubbing facility and automatic color lock control. It can be operated either horizontally or vertically. The price is about \$3000.

**The Panasonic line** of video cassette recorders, announced by Matsushita Electric Corp. of America, includes a  $\frac{1}{2}$ -in color videotape recorder than can play back and record. It functions as a one-step operation, that of inserting the cassette. Tape threading, rewind and cassette ejection are all automatic. The machine has HPF heads and automatic phase control. A  $\frac{1}{2}$ -in video cassette player, Model NV-2110, plays picture and sound on erasable magnetic tape. It has simplified controls. It is equipped with an RF adapter to allow playback through conventional TV sets. Model NV-2125, the recorder version of the NV-2110, records programs from a camera or from a TV monitor.

**A new NTSC color film chain system** has been announced by Marco Video Systems, Inc., 6114 N. 20 St., Philadelphia, PA 19138. The system accepts opaque artwork and overhead projector transparencies in addition to 16mm motion-picture film and 35mm slide transparencies. It can televise small three-dimensional objects in a 7- by 9-in horizontal field and it also has a built-in capability for split screen and wipe between the motion-picture film and 35mm slides. The system uses three-tube color pickup, a multiplexer, a 16mm projector and a 35mm slide projector. The price is \$8,770.

**Factory reconditioning service** for Mark X highband headwheel panels used on Ampex VR-1200 and VR-2000 videotape recorders is available from RCA Broadcast Systems, it was announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. The RCA service, a periodic maintenance procedure for TV recording equipment, previously had been limited to RCA videotape recorders. Ampex head-

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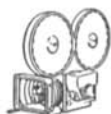
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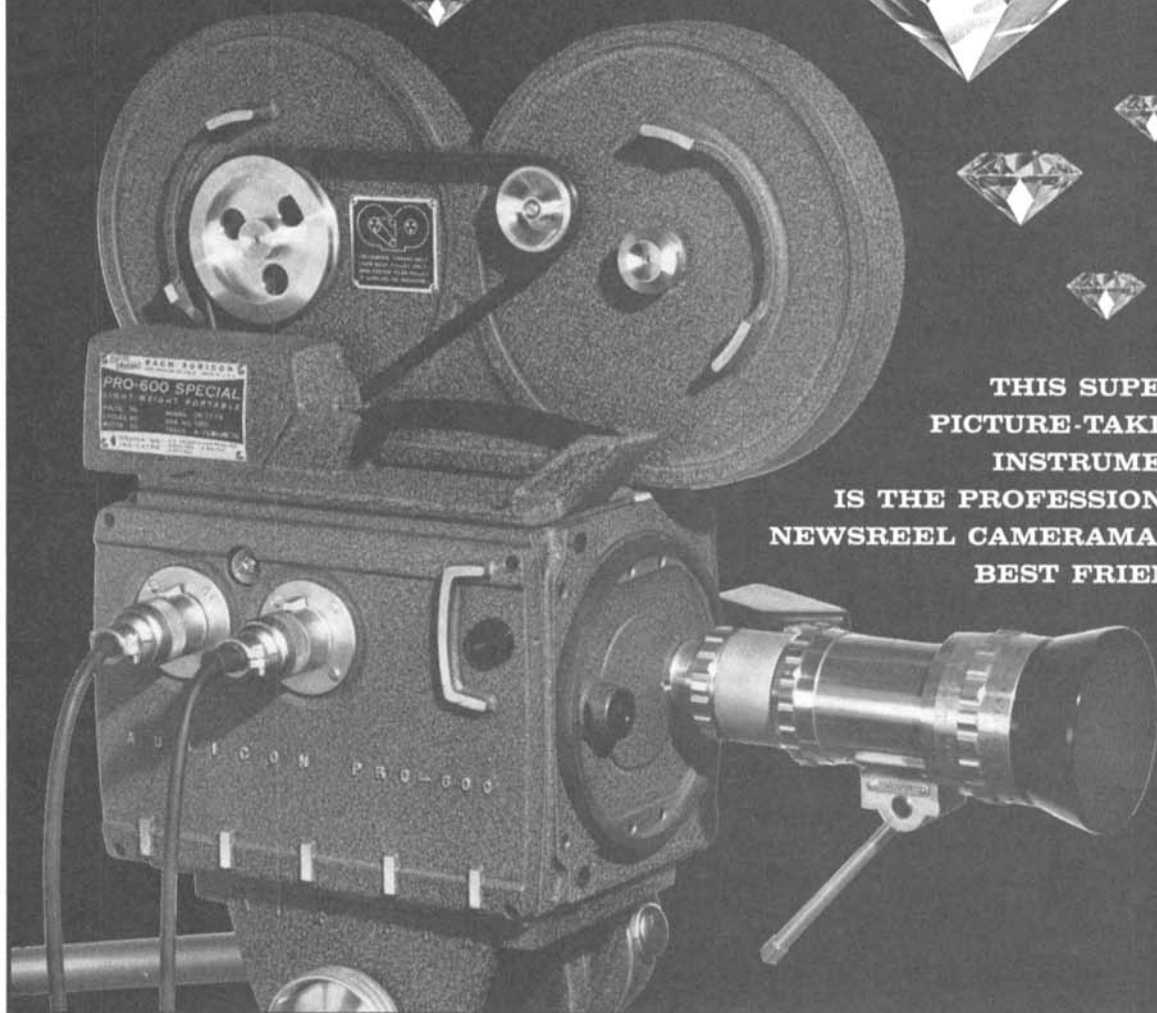


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wheels will be refurbished with Alfecon II, a newly developed headwheel material which is credited with substantially extending the operating life of RCA headwheels. New RCA headwheel panels using Alfecon II and those refurbished with it are reported to have almost double the life span of earlier equipment without it.

The TX-4B Dyna-Mod II, a solid-state audio-video TV modulator, has been announced by Dynair Electronics, Inc., 6360 Federal Blvd., San Diego, CA 92114. The modulator has an integral sideband response filter which allows adjacent channel color operation in cable systems without external filtering. Dual outputs and a front panel step attenuator allow the RF output level to be adjusted in 1 dB increments over a 20 dB range to simplify installation. Maximum RF output is 500,000  $\mu$ V. A meter is provided to allow audio and video percentage of modulation and power supply voltages to be measured. The Dyna-Mod II accepts separate audio and video inputs and generates a broadcast-quality television signal on any standard VHF channel. (Other frequencies are available on special order.) The unit is also available for use with inputs of video only, separate video and 4.5 MHz aural or combined video and 4.5 MHz aural. The visual carrier is crystal-controlled to 0.005% with the aural carrier locked 4.5 MHz above the visual carrier. The unit is fully transistorized, including a self-contained regulated power supply. It occupies 3½ in of 19-in rack space. The price is \$1,250.

A single-package FM frequency/modulation monitor, called the TBM-3700, which combines the FM frequency deviation and modulation percentage monitoring functions in a single, 7-in rack mount unit has been announced by McMartin Industries, Inc., 605 N. 13 St., Omaha, NB 68102. The two functions are independent of each other. Frequency measurement and calibration adjustments can be made without interruption of modulation monitoring. An internal reference signal permits calibration of the 100% modulation point at any time. The inherent internal FM noise of the TBM-3700 as well as system AM and FM SNR can be measured directly. The absence of an input RF signal automatically mutes the audio output. Auxiliary alarm contacts are provided for interconnection of an external carrier failure alarm. All critical circuitry is placed on plug-in glass epoxy circuit boards accessible from the rear. The price is \$1,350.

A new radiation-cooled 4-400C tetrode has been announced by Power Grid Tube Div., Eimac Div. of Varian, 301 Industrial Way, San Carlos, CA 94070. A low-temperature filament structure is designed to retain its initial high level of electron emission for an extended period of time, thus reducing frequency of tube replacement. The tube has a maximum plate dissipation of 400 W. It is intended for use as an amplifier, oscillator or modulator. It is priced at \$60.

The Tri Cut Control, an accessory designed for making quick cuts and animation effects in three-screen slide presentations, has been announced by Spindler &

Sauppe, 13034 Saricoy St., North Hollywood, CA 91605. The unit is designed to operate with up to six 500-W Carousel projectors. It can be used manually or programmed to operate with the firm's Media Mix programmer (*Journal*, p. 339, Apr. 1971) or with the Quadra Que to produce instantaneous cuts during slide changes on any or all of the screens. The device also has an "alternate" button position for each of the screens used to make possible 2-step animation effects by allowing projector lamps to "flop" back and forth. The Tri Cut Control is priced at \$594.

Photoplastic Recording (PPR), a method of recording images on film with the result ready for projection in a fraction of a second without chemical processing, has been developed by General Electric Co., Research and Development Center, P.O. Box 8, Schenectady, NY 12301, and has been offered for licensing. The method involves use of a thin metallic layer added to the film for improved brightness and clarity of the image. The film is insensitive to light until it is "charged" by exposing it to a high-voltage power supply just before it is used. When light strikes the film, the electrical charges on the surface are redistributed and, as a source of heat softens one layer of film, its surface is distorted. When the film cools, a fraction of a second later, the ridges are frozen into a pattern that reproduces the image being recorded. If additional information should be added later, this can be done a number of times without erasing the original image. The speed of processing is expected to make the method useful in computer-related microfilming, computers with graphic display outputs and industrial uses where holographs are made to study the performance of parts that may become distorted by vibration.

A new Plio-Magic shipping case for 35mm, 2000-ft reels has been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, NJ 07072. A one-reel loaded case weighs less than 14 lb. The cases are shock-resistant and have built-in metal supports which automatically join the lid and case for secure protection. Each case is priced at \$4.80 in quantities of less than 100.

Two new Plio-Magic cases for 400-ft 16-mm reels have been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, NJ 07072. One case holds three reels and the other case holds six reels. The cases are light in weight and have a patented positive action locking system. The cases were originally designed for shipping football films with three colored 400-ft reels inside to denote first and second half defense, first and second offense and kicking.

Also announced was the Plio-Magic film-strip/cassette box that stores and protects two filmstrips and two tape cassettes in their own individual container. The box is made of Plio-Magic material and has a lifetime hinged cover to resist dust and moisture. The box, containing two filmstrips and two cassettes, weighs 6 oz. The box is priced at 48 cents.

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