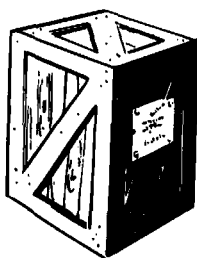


new products

(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.

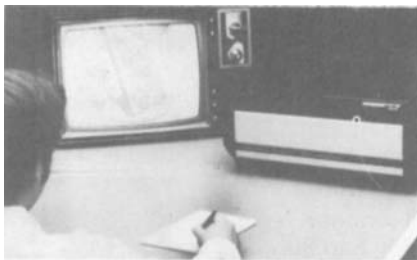
The MCA Disco-Vision (single-disc player and multiple-disc player/changer) was announced by MCA Disco-Vision, Inc., 100 Universal City Plaza, Universal City, CA 91608, and described on p. 264 of the March 1973 issue of the *Journal*. Omitted from the story was the information that the system will not be manufactured before 1974; it is not presently available. The prices noted (about \$400 for the single-disc player and about \$500 for the multiple-disc player/changer) are the prices at which the units are expected to retail when the MCA Disco-Vision becomes available. The *Journal* regrets the omission of the information.



The BC-230B broadcast color television camera, an advanced version of the BC-230 which it replaces, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The new camera has automatic centering. Other features include an extended red Plumbicon™ (N. V. Philips) tube and a return viewfinder feed. The automatic centering device uses green as reference to center blue and red both vertically and horizontally on a simple test pattern. Thereafter, the unit detects and automatically corrects any drift errors in actual performance. Previously this feature was available only on imported cameras.

The return viewfinder feed makes it

possible for the operator to view the same picture on his viewfinder that the director sees on the control monitor. A bias-lighted prism minimizes problems with image lag when panning or televising moving objects, even in the dimmest studio light. The BC-230B measures 23 by 17 by 9½ in and weighs 70 lb without the lens and viewfinder. The price is \$60,000.



The Kodak Supermatic Film Videoplayer VP-1 has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The announcement followed a feasibility study made public in October 1971 at the Society's Technical Conference in Montreal. (See "Super 8: A Universal Input to Video-Cassette and Television Systems," Pt. I: "Application Concepts" by Eric A. Yavitz; and Pt. II: "Technical Considerations" by Joseph L. Boon, *Journal*, pp. 534-540, July 1972.)

The new videoplayer can play black-and-white or color, silent or sound super-8 motion pictures over a standard color TV set by attachment to the antenna terminals of the set. It can also feed a signal to a multiplicity of TV sets or to a TV system. Although the videoplayer can be used in the home to show home movies on super-8 film, it has been designed primarily for professional and institutional use. It is expected to find application in education, medicine and other nontheatrical areas and as a wide-ranging source of program input for existing closed-circuit TV systems.

Features include pushbutton controls, automatic threading, instant review, stop motion, cassette loading, automatic rewind of the film into the cassette at the end of its showing and extremely quiet operation. The videoplayer accepts Kodak Supermatic cassettes for projection of standard super-8 film. The cassettes can be used interchangeably on existing silent and sound Kodak movie projectors. The videoplayer uses a flying spot scanner and a continuous film transport system, permitting acceptance of thinner-base film for longer programs, minimal wear on film and less wear on the mechanism. The machine runs at 18 and 24 frames/s and conforms to the super-8 magnetic standard of 18 frames separation between sound and image. The unit is 8 in high, 26 in wide, 15 in deep and weighs about 35 lb. It runs on 60-Hz, 110-V current. The RF modulator on the videoplayer is preset by Kodak for either 54-60 MHz or 60-66 MHz for operation through channels 2 or 3. A video signal output for systems application is also included. Price of the Kodak Supermatic Film Videoplayer VP-1 is \$1,195.

A series of solid-state rectifiers designed to replace electron tubes in certain television applications has been added to the

ECG replacement semiconductor line, it was announced by GTE Sylvania, Inc., 730 Third Ave., New York, NY 10017. Three rectifiers in the new series are high-voltage rectifiers, one is a focus rectifier, one is a damper diode and one is a 45-kV stick rectifier used in high-voltage applications. The devices are packaged individually with a data sheet giving mechanical and electrical ratings and a list of the tube types they replace.



The Delta 14 Sync-Loc VTR Servo Interface Module for correcting video picture instabilities inherent in a variety of low-cost videotape recorders has been announced by Television Microtime, Inc., 1280 Blue Hills Ave., Bloomfield, CT 06002. It is an accessory to the Delta 44 NTSC Color Time Base Corrector (*Journal*, p. 886, November 1972). The new unit is designed for installation in or on a variety of nonbroadcast VTRs known as "V-lock" or "Electronic Editor" machines. It develops a correction signal for the VTR which virtually eliminates its natural tendency to produce a jittering (and therefore nonbroadcastable) signal. The resulting mean variation around an external reference is well within the capture range of the Delta 44 TBC, which then transforms the monochrome VTR output into a stable full color picture.

The illustration (above) shows the Delta 14 unit installed in an Ampex VR-7800 V-lock helical VTR, a machine typical of several models, from different manufacturers, designed for closed-circuit operation but which have not been usable for NTSC direct color playback because of substantial horizontal time-base jitter. The Sync-Loc module converts the Ampex unit to full H-lock operation, permitting direct broadcasting or professional post-production processing or duplication of the off-tape signal. The unit is also available as a self-powered accessory package for installation on or near other VTRs or as a Delta Series module board for installation in the TBC cabinet or an accessory cabinet. It is priced at \$900 for the Delta board and \$1,000 for either the Ampex or stand-alone custom option.

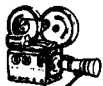
The Delta 14 Sync-Loc was described in a paper presented at the Society's 113th Technical Conference in Chicago by Harry Kaemmerer, David E. Acker and C. Robert Paulson ("H-Lock Servo and Direct Color Recovery System for Low-Cost Monochrome Helical VTRs").

A new 1-in, helical-scan color videotape for broadcasting and sophisticated closed-circuit use has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Designated the 170 Series, it is the

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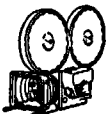
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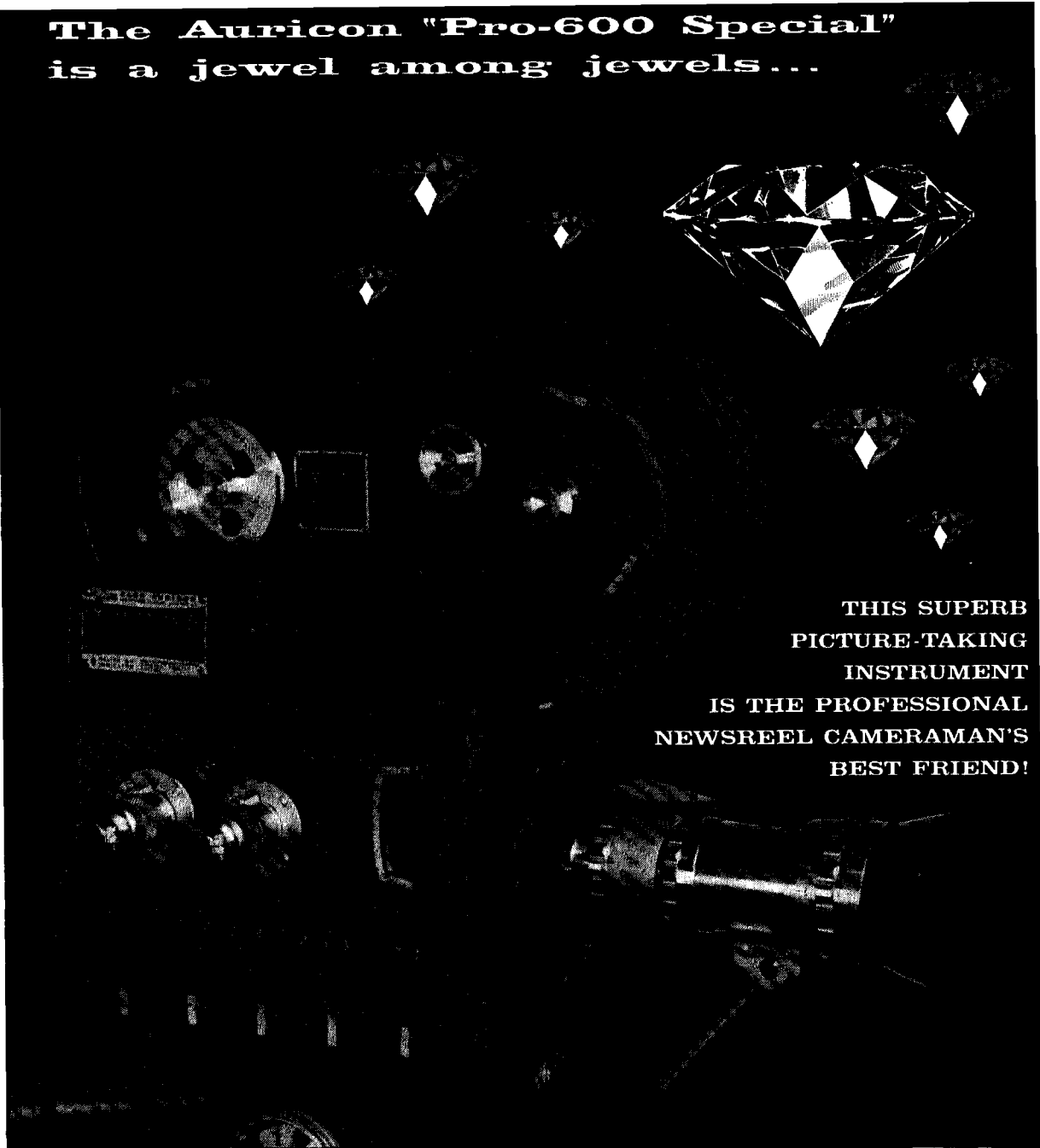
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first high-energy type tape to use a standard ferric oxide formulation. The 170 Series videotape is designed for use with Ampex, IVC and other 1-in helical-scan videotape recorders equipped with time-base correction. Print-through and pressure demagnetization are improved over cobalt-doped tapes; also, the use of a non-doped ferric oxide provides compatibility with existing tape libraries with no machine adjustment. Improved processing is reported for the 170 Series to lower dropout and chroma noise measurements. The new tape is available in ½-, 1- and 1½-h lengths. A 1-h reel in the Ampex format is priced at about \$65.

An individual dropout profile is provided with each reel of the 175 Series high-band, broadcast, color videotape, according to an announcement by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The profile, which is a measure of tape cleanliness, is the actual production test documentation of dropouts with minute-by-minute digital printout for every reel of tape. The profile provides end-to-end dropout measurements, according to SMPTE Recommended Practice RP 47, counting dropouts of 5- μ s duration, measured at -16 dB from reference. A safety band and a solid-back flange are also included with every reel of 175 tape. The safety band is designed to prevent accidental damage to the edge of the tape due to the pressure of the reel flanges during shipping and handling. The solid-back reel flange with no windage holes helps protect the tape edge from damage and contamination. It also improves tape winding and packing during fast forward and reverse operation.

The Editec system, a new accessory for the AVR-1 third generation broadcast videotape recorder designed to provide both normal editing functions and cue-tone edit capability for electronic editing has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The new system is capable of all editing functions previously handled by the Mark IV Editor, such as single-frame insertion, use of cue tones and the rehearse mode for improvement of edit accuracy. In addition Editec provides for movement and verification of cue tone placement prior to editing. All functions are controlled from a single panel. Three modes of operation are provided. Cue Read is the normal mode of operation. To erase unwanted cues and replace them with new cues, the Cue Rewrite mode is used. The Cue Erase mode provides capability to erase single cues selectively or to erase all cues on the tape in one operation. The Editec for the AVR-1 is priced at \$7,500.

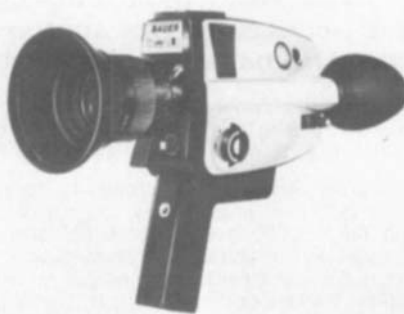
The Versatester I, an electronic bench test instrument that provides signal sources, power sources and has digital multimeter and counter capability has been announced by Systron-Donner Corp., Datapulse Div., 10150 West Jefferson Blvd., Culver City, CA 90230. The instrument can be used, in large part, for self-test and calibration. Among the machine's capabilities, it supplies dc power, +5 V,

± 15 V, ± 30 V. It generates pulses, sine waves and square waves 20 Hz to 20 MHz. It digitally measures and displays to four digits: frequency, auto ranging 20 Hz to 20 MHz; dc volts, 0-500 in four ranges; ac volts, 0-500 in four ranges; and dc Ω , 0-5 M Ω in five ranges. The price is \$1,250.

A microwave power meter system, which uses a new thermocouple power sensor to make wide-range measurements with higher accuracy by reducing mismatch uncertainty, has been announced by Hewlett-Packard Co., 1501 Page Mill Rd., Palo Alto, CA 94304. The system, designated the 435A Power Meter/8481A Power Sensor measures power over a 55-dB dynamic range (300 nW to 100 mW) from 10 MHz to 18 GHz. The sensor's Standing Wave Ratio (SWR) from 30 MHz to 12.4 GHz is less than 1.2 and from 12.4 to 18 GHz it is less than 1.3. The 8481A Power Sensor unit contains the thermocouple and an FET chopper-stabilized amplifier. The 435A Power Meter is an ac voltmeter, calibrated to read in units of power. It has a built-in RF calibration source.

The thermocouple, instead of being the traditional bismuth-antimony type, is a proprietary silicon-integrated device, i.e., it is produced in basically the same manner as a silicon transistor. The thermocouple chip, about 40-mil square, is bonded to a sapphire substrate, containing RF circuitry matching the coaxial input to the thermocouple. The Power Sensor is priced at \$350 and the Power Meter is priced at \$550.

Two new TV test tools designed to check vidicons for centering and tilt in relation to the camera lens mount have been announced by Photo Research, 3000 North Hollywood Way, Burbank, CA 91505. The Centering Test Tool is a tapered viewing tube for checking alignment for center. The Tilt Test Tool consists of a pattern and iris diaphragm mechanically mounted to produce a pattern on the TV monitor which would indicate any tilting of the vidicon in relation to the camera lens mount. The price for the set of two tools is \$90.



Two new electronic Bauer C Royal E (8E and 10E) super-8 cameras have been announced by AIC Photo, Inc., 168 Glen Cove Rd., Carle Pl., NY 11514. Features include Neovaron $f/1.8$ lenses and a built-in computer for an automatic long-time exposure. A separate "low light" photo element provides frame-by-frame exposure that can vary from 1/10 s to 1 min. It automatically controls exposure at light levels so low the human eye barely see them,

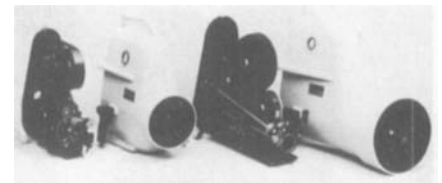
allowing filming in the moonlight or under any extremely low light conditions. The length of scenes can be preselected from 1 s to 12 s, from 18 frames to a maximum of 200 frames. Other features include computer-controlled automated lap dissolve, a built-in intervalometer for animation, automatic exposure control, a 10-diopter eyepiece and an electromagnet "soft release" input for remote control. The cameras are powered by six AA penlight batteries. The C Royal 8E Makro has an 8:1 300m range and the C Royal 10 E has a 10:1 range, both with two-speed power zoom, in addition to a manual zoom lever. Price of each camera is under \$650.



The Leica Special, a new super-8 camera designed to be a nucleus for a versatile super-8 system, has been announced by E. Leitz, Inc., Rockleigh, NJ 07647. The first Leitz movie camera to accept Leica-M bayonet-base lenses, the new camera becomes an integral part of the Leica Leicaflex system of photography, enabling the user to take movies and still photographs with the same lenses. Two cine lenses can be used with the camera—a 10mm Macro-Cinegon $f/1.8$ lens and a 6-66mm Optivaron $f/1.8$ zoom lens. The Leica Special can also use lenses from still and cine cameras with appropriate adapters.

Applications include use on a microscope or endoscope and for surveillance and time-lapse studies. It can also be used with heavy telephoto lenses in filming news, sports events and wildlife.

The camera has three different viewing screens which can be changed by a switch, continuous diaphragm action for precise matching of the through-the-lens metering system and full stop-down of the diaphragm of the 10mm lens for fade in and out and lap dissolves. The camera also has a time-exposure setting. The Leica Special is priced at \$789. With a 10mm lens it is priced at \$1,026.



Aquaflex underwater camera housings for the 16mm Arriflex (with 400-ft magazine) and the 16mm Beaulieu (with 200-ft magazine) have been announced by Becker Engineering Inc., 7732 Clairemont Mesa Blvd., San Diego, CA 92111. The Aquaflex features a lighted footage counter, a reflex viewfinder at the rear of the housing, con-

Meet your sound crew.

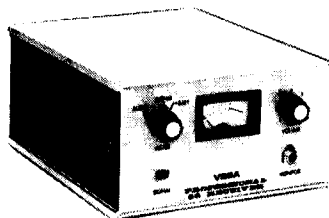


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- Polaroid Land Camera attachment Model XR-Cam shown above
- movable cart for Model XR-35 Projector

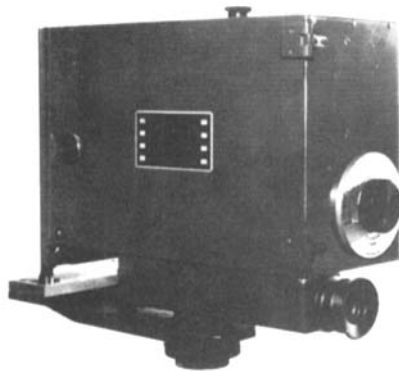
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An animation camera, manufactured in England by Neilson-Hordell Ltd., has been announced by Photographic Equipment Service Inc., 695 Main St., New Rochelle, NY 10801. The camera, designated Model 86, is a 16mm camera with fixed pin registration, 167 frame/min stop-motion motor, 170° manual fade and dissolve rotary shutter, a conveniently-angled reflex viewfinder and daylight loading for 100- or 200-ft spools or 400-ft magazines. The camera is specifically designed for single-frame animation and special effects.

Featuring facilities for manual or auto focus down to a 1-in field, the camera is supplied with a 28mm f/3.5 Micro-Nikkor lens which is easily interchangeable. The manually operated reflex viewfinder incorporates an electrical interlock to prevent exposure while viewing. It shows cross hair center lines. Markings for the 16mm camera aperture, 16mm projection aperture and TV cutoff are etched into the ground glass reticle. A viewfinder projection lamp can be fitted to project reticle markings on the table top for determining image size relationship of artwork. Model 86 was reported in the 1972 Progress Report on p. 397 of the 1973 May Journal. Price of Model 86 is about \$7,500.

A line of Photo-Sonics LED Timing/Pulse Generators and Multi-Camera Drivers for 16mm, 35mm and 70mm motion-picture cameras has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The Timing/Pulse Generator, an incremental time clock whose output couples directly to a light-emitting diode for exposing timing marks on film, has output frequencies of 10 pulses/s (with a single pulse every 100 ms); 100 pulses/s (with a single pulse every 10 ms and a double pulse every 100 ms); and 1,000 pulses/s (with a single pulse every 1 ms, double pulse every 10 ms and triple pulse every 100 ms). The event circuit is standard.

The Multi-Camera Driver, which accepts time and event data from the generator, drives up to four cameras. The driv-

ers can also be ganged to drive as many cameras as desired and can be used with existing LED drivers of other manufacturers to expand current timing systems. The units can be operated from 115-V ac, 28-V dc, or self-contained rechargeable NiCad batteries. The generator is priced at \$560 and the driver is priced at \$525.



The Photo-Sonics Timing Light Generator, Series TLG-78, has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The instrument can drive more than 10 NE2H neon lamps through 200 ft of cable at selectable frequencies of 10, 100 and 1000 Hz. Power requirement is 115-V ac or 28-V dc. The unit measures 5½ by 4½ by 3½ in and weighs 16 oz. The price is \$240.

A battery system featuring quick charging and an instant-change battery pack has been announced by Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. Heart of the system is the BAP battery, a compact, rechargeable 2 Ah battery pack measuring 5¼ by 4¼ by 1¾ in. In an unbreakable housing, the BAP contains a 12-V configuration of sintered premium nickel-cadmium cells with welded contacts and an automatically-polarized system of spring-loaded silver-plated contacts. Under normal conditions, the BAP can run 12 to 15 200-ft film loads, or 7 400-ft loads through an ACL 16mm camera. It also works with the NPR 16mm model. Quick charging is accomplished with charger model ZAP, into which the BAP plugs instantly. Full charge takes 2 h and a 60 to 70% charge takes 1 h. As the battery pack charges, the ZAP pilot light dims until it is extinguished at the point of full charge. At that time, the unit is placed on a trickle charge which can be continued indefinitely. In use, the BAP drops in and plugs directly into housing/connector HIP. The HIP can be slipped into a pocket, worn over neck or shoulder or slipped over a belt. Connection to all Eclair cameras is accomplished by means of a standard 4-pin XLR Canon-type connector on the HIP. The BAP battery pack is priced at \$130. The ZAP charger is priced at \$175 and the HIP housing/connector is priced at \$45. The system is also available as a package (Model QCQC) at a price of \$350.

The Kalart Victor Modular Moviematic Repeater Projector, designed so that it can be fitted into custom built display units and exhibits, has been announced by

Kalart Victor Corp., Plainville, CT 06062. Features include remote controls, plug-in speakers and a 30-min capacity film magazine. The projectors are designed for continuous and automatic operation with or without sound. Special projection lenses and mirror-screen assemblies provide large-screen projection at very short distances. Several models are available. The Marc 300 model is designed for projecting 16mm film in brightly lit rooms or outdoors.

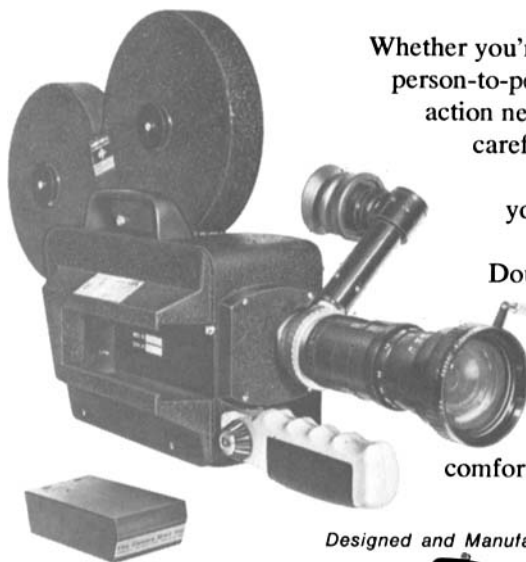
The Norimat de Luxe projector combining either a super-8 or dual 8mm projector with a completely integrated sound cassette tape recorder in one self-contained unit has been announced by Karl Heitz, Inc., 979 Third Ave., New York, NY 10022. The projector measures 13 by 6 by 9 in and weighs 18 lb. It uses 1/2-in tape cassettes. Reel-to-reel threading and loop setting are accomplished automatically without trimming or touching the film. A wide-range 15-30mm f/1.3 Vario zoom lens, pre-centered in conjunction with a high-intensity 12-V 100-W halogen cold-light-mirror lamp, is used for precise synchronization between an extra large film gate and the shutter blades to get a sharp image with high color fidelity. Mechanical coupling and electronic interlocking of the 1:1 motor drive provides synchronization of film and tape without any picture/sound intervals. The projector runs at speeds of 18 frames and 1 7/8 in/s or 24 frames and 2 1/2 in/s. Sound for silent film can be chosen from any number of commercial cassettes or from self-recorded cassettes. Features include sound-on-sound recording, automatic volume control, VU meter, and noise reducing switch. Price of the super-8 machine is \$483.50. The dual-8 projector is priced at \$516.50.



Professional audio recorders in one- and two-track 1/4-in and four-track 1/2-in configurations incorporating the features of the M79 multitrack series have been announced by 3M Company's Mincom Div., P.O. Box 33600, St. Paul, MN 55133. The new recorders operate at three speeds (7 1/2, 15 and 30 in/s) but are capable of variable speeds from 5 to 45 in/s using a new dc servo capstan assembly. The recorders embody the 3M Isoloop drive and single

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A modification of the 16mm Filmkraft Guillotine Splicer to give the splicer a capacity for holding side by side two rolls of splicing tape—one for sound and the other for picture—has been announced by Filmkraft Services Dept., 6850 Lexington Ave., Suite 217, Hollywood, CA 90038. The modification, done by Filmkraft on the customer's splicer, is priced at \$73.50.



The GTE Sylvania night viewing device product line has been acquired by Javelin Div., Apollo Lasers, Inc., 6357 Arizona Circle, Los Angeles, CA 90045. Now called the Javelin Night Viewing Device, it is a passive device that permits an observer to see at night as if it were daylight. The lens collects and focuses the light, the viewer converts it from light energy to electrical energy, amplifies it, converts it back to

light energy and then presents the reproduced image on a screen on the rear of the unit. The operator observes the image through his eyepiece lens or through a single lens reflex camera, TV camera or binocular viewer. The devices are used by law enforcement officials and general security applications, where undetectable night observation is required. Because they do not require infrared illumination, there is no emission of any kind that might reveal their position. The devices are so sensitive that starlight alone supplies sufficient illumination for effective operation. The devices are also suitable for photographic darkroom use. The price range for the basic devices, including lens, batteries and carrying case, is \$2,495 to \$5,950.

Scintaflex, a system that converts the results of radiological scanning to an immediate electronic readout, has been announced by Xetex, Inc., 80 Glenn Way, Belmont, CA 94002. The system is used in nondestructive evaluation of materials and assemblies. It provides real time, quantitative results of scintillographic scanning by thermal neutrons, x-rays or gamma rays on any desired display device, including a strip chart recorder or x-y plotter. The system consists of a detector, amplifier-control and display units. The detector unit components are mounted on a baseplate that includes a self-aligning collimator attachment that accepts a wide range of collimator sizes. The photomultiplier-tube detectors used in the unit are optically coupled to NaI(Tl) crystals 1-in thick by 1½-in in diameter. Dynode

switching is used to permit optimum tube operation over a wide range of incident radiation intensities. The detector unit is cable-connected to the amplifier-control unit. The input elements in the amplifier-control unit include the internal reference supply, the mode selector, the time constant circuit (integrator set) and the calibration system. The display unit provided is a strip chart recorder with a wide range of selectable chart speeds to accommodate a variety of test situations.

Scintillography is described as "a real-time imaging method which provides high sensitivity at the expense of spatial resolution. The sensitivity and electronic data processing are advantageous in applications not demanding the detail sensitivity of other imaging methods." Price of the Scintaflex system is \$6,750.

Slide & Sound Pak, a Plio-Magic package holding 48 slides and two audio cassettes, has been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, NJ 07072. The package has a lifetime hinged cover to resist dust and moisture. Made to fit all drawers and housings for Technicolor-type storage boxes, the Slide & Sound Pak is 4½ in wide, 1½ in high and 4 in deep. The box has a large labeling area to make it easy for the user to identify the contents and program.

Plastic Reel Corp. also announced a carrying and shipping case designed especially for Kodak 8mm cartridges. The cases combine positive locking with virtually indestructible construction.

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- Separate playback heads for monitoring directly off the track.
- Outlet for remote control cable.

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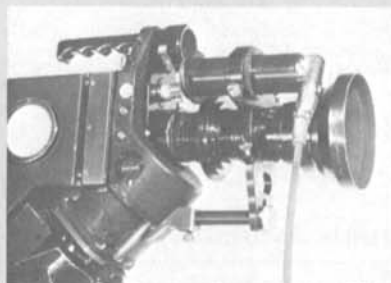
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