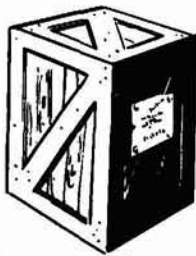


new products

(and developments)



.....
 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.

Eastman Fine Grain 16mm Sound Recording Film 7375 will soon be supplied without a latent image footage number at 20-frame intervals by Eastman Kodak Co. A nationwide survey has indicated a preference for the film without footage numbers, the announcement stated.

Also announced was the availability of **Eastman Color Print Film 7381** in 35mm multi-row super-8 format on 4.7-mil Estar base with a magnetic prestripe. It is identified as SO-449.

Perforating machines and perforator parts have been announced by Metropolitan Visual Products, Inc., 453 W. 47 St., New York, NY 10036. The machines and parts are manufactured in Germany by Film-Stanz-Technik/Kurt Breitwieser. The firm specializes in the manufacture of precision parts made according to the customer's specifications. Materials used include stainless steels, special tool steels and tungsten/carbide steels. The perforating parts and machines are made for use in the motion-picture and television industries, as well as for use in the magnetic tape, computer tape, microfilm and microfiche industries. A catalog and specifications booklet can be obtained by writing to Metropolitan Visual Products.



A **wound-type flat electric motor** has been developed by Matsushita Electric of Japan (Panasonic). The development was announced by Matsushita Electric Corp. of America, Pan Am Bldg., 200 Park Ave., New York, NY 10017. Prior to the development of the Matsushita motor, flat motors operated with a printed motor, the coil being printed on a resin disc to form the rotor. Conventional printing techniques limited the number of flat motor windings and made the motor unsuitable for high-voltage operation. The new flat motor, an improved version of the commutator motor has two to three times longer life than the conventional commutator motor which has a short life due to mechanical and electrical wear and tear.

The new motor uses a special wiring technique that winds wires compressed into a disc without using an iron core and also uses a special resin to mold the armature and thus prevent deformation during high-speed rotation.

The **Super-16 ACL camera** has been announced by Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. Using an image area of 91mm² (aspect ratio 1:1.66) as opposed to 76.6mm (aspect ratio 1:1.33) for the conventional format, the new camera provides almost 20% more image area. The larger image size allows significant economies through the use of 16mm equipment while providing crisp, clear blow-ups to the 35mm wide-angle format. The camera is available in a package consisting of the camera head, motor, battery, power cable, battery charger, 360° rotating eyepiece, two quick-change 200-ft super-16 magazines, deluxe Supol handle (containing two filter holders) and a deep flotation case. The price is \$8,495.

The **XL100**, a new super-8 camera with an *f*/1.1 lens has been announced by Keystone Div. of Berkey Photo, Inc., 842 Broadway, New York, NY 10003. The camera has a CdS electric eye for automatic exposure control across the aperture range of *f*/1.1 to *f*/45. Features include a film running indicator in the viewfinder, an electric motor drive, focusing eyepiece and automatic footage counter. The price of \$124.95 includes a roll of Kodak Ektachrome 160 ASA film and three alkaline batteries.



The new **Jensen Model 550 Crystal-Controlled Time-Sync Generator**, designed to provide serial pulses at either 50 or 60 Hz for sync resolution between cine camera and sound recorder in linkless filming, has been announced by Image Devices Inc., 811 NW 111 St., Miami, FL 33168. The unit, measuring 5¹/₈ by 1¹/₂ by 1¹/₄ in and weighing 7 oz is designed to snap into the carrying strap of a professional-type sound recorder. It is electrically attached to the recorder by a special cable set supplied to fit any one of most recorders, including Nagra, Stellavox, Tandberg and Arrivox. The unit can also be used with almost any tape recorder having 2-track capability. A modular power pack is available for use if input power cannot be conveniently derived from the recorder. The accuracy of

the unit is such as to provide resolution within ±½ frame in 30 min of filming. Model 550 is priced at \$225.



A **crystal-control drive motor modification** of the Jensen Multisync System can be added to Eclair cameras with Ciblotype motors as a factory modification of the original motor, it was announced by Image Devices Inc., 811 NW 111 St., Miami, FL 33168. Four modes of operation are provided: (1) Crystal-controlled 24-frame speed (25-frame speed optional) with accuracy better than 1/6 frame per 400 ft of film over a temperature range of -4°F to +140°F. In this mode the motor exhibits the general characteristics of motors controlled by the Model 505 Jensen Multisync intended for external application to Arriflex 16 BL cameras (*Journal*, p. 655, August 1972). (2) Variable speed operation from 9 to 40 frames/s by means of potentiometer control and digital speed readout. (3) Normal operation in which the camera functions as if no modification had been made. (4) External, in which the camera can be slaved to an external source such as a tape recorder, another camera, etc. Cost of the modification is \$975. It is done at the factory in Copenhagen; however, stocks of modified motors are maintained by the firm at various locations in the Western Hemisphere.

The **Cine-Slave synchronizer**, a solid-state, general purpose synchronizer, has been announced by Inner Space Systems, 1402 Moorland Rd., Madison, WI 53711. It is designed to maintain perfect interlock between most dc motor-driven cameras, open reel recorders (preferable Uher 4400) and projectors at every stage of film production. The system makes it possible to film, edit, transfer, sound mix, make optical prints and do double-system projection, all in sync. The system is modular with plug-in circuit cards inside the synchronizer. Options, such as crystal sync, come in the "plug-in" mode and are designed to slip easily into any standard Cine-Slave. The Cine-Slave operates off the camera's power source without interfering with the camera's function. No external batteries are necessary. It measures 2 by 4 by 5 in and weighs 2 lb. The price is about \$350.

A companion device called the **Sensit Box** is a solid-state variable-speed control device which locks a Uher recorder to a projector. In this configuration, the projector controls the speed of the recorder for editing and sound mixes. The Sensit Box provides for automatic synchronization between the projector (or other recorder) and the Uher. It provides also for operation in constant speed or manual variable-speed



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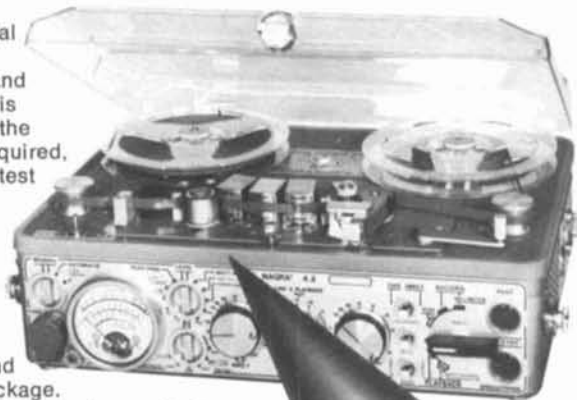
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modes. The Sensit Box automatically starts and stops Uher 4000 series recorders. Starting and stopping can be controlled by manual pushbuttons, tape tabs on the film or a pre-set digital counter. Modular systems design allows simple interconnection of up to five Sensit Boxes permitting interlock for five additional recorders. Joined in this fashion the boxes provide a control panel for more elaborate sound mixes. The Sensit Box and the Cine-Slave can lock a Uher to other recorders, synchronous or nonsynchronous cameras, the line frequency, a crystal clock, or any of the standard sync frequencies. The Sensit Box is priced at \$105.

The Remote Start/Slate system, a short-range remote control device consisting of a miniature transmitter, for attachment to handheld noiseless professional motion-picture cameras, and a subminiature receiver, to be mounted on a sound recorder, has been announced by Stuart R. Cody Co., 24 Dane St., Somerville, MA 02143. These types of cameras and recorders achieve speed control through quartz crystal stabilized servo motor drives. Starting the camera transmits signals to the receiver, which starts the sound recorder and marks a starting point coincident with the leading frames of usable picture, facilitating the synchronization of film and soundtrack. Logic circuits are incorporated in the receiver to prevent recorder shutoff in the event of momentary signal dropout due to interference or RF null points. The device has a usable range greater than 100 yd, transmitting in the VHF band between TV channels 4 and 5. The price range is from \$510 to \$650.

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The Mark 10 aerial camera mount, designed to provide complete motion and vibration isolation between helicopters and motion-picture cameras, has been announced by Continental Camera Systems, Van Nuys, CA 91406. The mount can handle most 35mm cameras. Although primarily designed for helicopter use, the mount can be easily adapted to other camera platforms, such as boats, cars and aircraft. It can be installed on either side of a helicopter in a few minutes. The Mark

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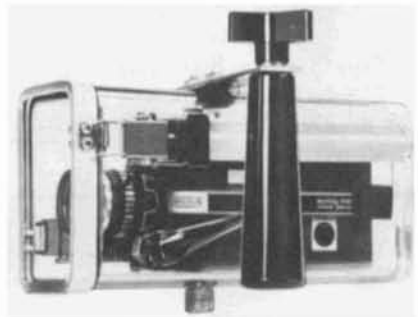


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The firm also has available a 16mm mount and a mount for use in Bell J2 or larger helicopters.

The Model 700 35mm 200-ft Displacement Magazine, manufactured by Automax Industries, has been announced by Instrumentation Marketing Corp., exclusive distributors, 820 S. Mariposa St., Burbank, CA 91506. Originally designed for Automax cameras, it has a standard Mitchell mount that permits use on many other 35mm cameras. It is smaller and lighter in weight than conventional magazines and can be used where a small magazine is required that can still hold 200 ft of film. Spindle adapters that are used with the 200-ft darkroom loading core can be removed to permit use of 100-ft daylight load. Gate rollers provide a light trap permitting magazine attachment to camera for daylight threading. The price is \$295.



An underwater housing designed to permit filming with the Eumig Mini and Mini 3 cameras has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The housing is box-shaped and designed to be held in both hands of the photographer. It is made of rugged, see-through Plexiglas with a sports finder and a large release key to start and stop the camera operation. The housing has been pressure-tested for depths of 300 ft. The price is \$59.95.

Two new color high-band video recorders, Model 201C (record only) and Model 411C (record/reproduce) have been announced by Echo Science Corp., 485 Middlefield Rd., Mountain View, CA 94040. The 201C measures 15 by 11.42 by 6.42 in and weighs 38 lb. It may be hand-carried or back-packed. The weight includes an internal battery. The dimensions are possible because of a specially developed transport which was introduced into military airborne use three years ago and has been used in severe and hostile environments. The color electronics are newly developed. The machine records for 30.6 min on 1-in tape on an 8-in reel. It is priced at less than \$20,000.

Model 411C provides full studio broadcast level performance. It measures 28 by 19 by 17 1/4 in and weighs less than 140 lb. It is available as a table top or console configuration. The basic machine has the functional equivalents of Amtec, Colortec, velocity compensator and processing amplifier. It records a composite signal (NTSC or PAL) on 1-in magnetic tape with a record time up to 1 1/2 h on a 12 1/2-in reel. The machine also has the capability of insert and assemble editing. It is priced at less than \$40,000.

Both machines use the Echo Science twin-head 1-in helical video format with 13° scan angle and 3.7-in scan length. Head life is estimated at 1,000 h.

A new video disc recorder featuring variable recording speeds from 1 to 60 frames/s and offering fast/slow-motion/stop-action of 570 frames has been announced by Moxon Inc./CTS Div., 2272 Michelson Dr., Irvine, CA 92664. Designated Model 9108, the unit is housed in a table-top or rack-mounted chassis containing a constant contact recording/playback head, high-fidelity recording disc and solid-state electronics. The instrument has front-panel controls that allow the selection of either same speed for recording and playback or fast recording and slow playback, or slow recording and fast playback. The record head position (frame number) is shown on a seven-segment readout. Recording may be made over existing recorded data or by pressing the Erase button before Record. Rack mount dimensions are 19 in wide, 8 3/4 in high and 18 1/2 in deep. The table-top version is 17 in wide, 9 in high and 3/4 in deep; the weight is 64 lb. The price is \$18,000.

Star Pak, an electronic television program origination system that uses a battery of pre-timed videocassette players to beam first-run motion pictures over broadband communications circuits to homes wired for cable TV, has been developed by Goldmark Communications Corp., a subsidiary of Warner Communications Inc., One Communication Plaza, Stamford, CT 06904. The system contains a tiny, solid-state skew-correction device that monitors picture signals as they leave the system to eliminate possible distortion before they reach the home TV set. The skew corrector, which can be used independently with videocassette players, is manufactured and marketed for GCC by Anderson Laboratories of Bloomfield, Conn.

The Star Pak system has been installed in four cities. The system is designed to provide programming for an entire cable

TV network. It uses four videocassette players to feed full-length motion pictures and other programs with special messages interspersed through automatically controlled preset timing. The operator merely inserts preprogrammed video cartridges and sets the system for totally automatic operation. The Star Pak system was described in detail by Desai and Schwartz on 20 January at the SMPTE Winter Television Conference in Key Biscayne, Fla.

Star Pak will be priced at about \$15,000.

The Matthey Viewfinder Mixer, manufactured in England by Matthey Printed Products Ltd., has been announced by Television Equipment Associates, P.O. Box 1391, Bayville, NY 11709. The mixer permits up to five television camera viewfinders to superimpose, simultaneously and independently, a remote picture from any one of 18 different sources on their own camera output. The sources are selected by five rotary switches. Concentric with each is a potentiometer which enables the amplitude of the mixed-in source to be varied while the camera picture remains fixed. A sixth output from the unit is a remotely selective monitor feed which can sample each of the five mixed viewfinder outputs. Alternative applications include use of the mixer as a routing switcher. The mixer is 19 in wide and 3½ in high. It is suitable for rack mounting. The price is \$2,800.

The Matthey Chroma Corrector, manufactured in England by Matthey Printed Products Ltd., has been announced by Television Equipment Associates, P.O. Box 1391, Bayville, NY 11709. The instrument has been designed to overcome the problem of chrominance/luminance gain and delay inequalities in color television produced by distorted external video signals. The Chroma Corrector not only monitors color television pictures, but can correct amplitude variations within $\pm 40\%$ and delays up to ± 100 ns. There are separate controls for amplitude and delay adjustment. Remote control is possible. Local controls are fitted on the front panel, which also holds auxiliary outputs for both gain and delay so that local monitoring can be carried out when required. Other features include an automatic bypass device in case of power failure and a manual override. The chroma corrector operates continuously on the video route. In operation, the vertical interval test signal VIT Line 19 is selected. The operator manipulates the gain and/or delay controls of the chroma corrector while viewing the 12½T chrominance modulated pulse and cancels any amplitude or delay inequalities. The equipment is 17-in wide (with flanges for 19-in rack mounting) by 1¼ in high by 12 in deep. The price is \$1,575.

The Unimedia SMT series of color monitors designed for broadcast, closed-circuit, cable and teleproduction applications has been announced by Universal Media Corp., 29115 Mission Blvd., Hayward, CA 94544. The series includes 9-, 12-, 15- and 17-in monitors, each using a Sony Trinitron tube. All the monitors rackmount in 19-in racks with the 9-in model available as a dual installation or in a frame for use with a half-rack waveform monitor. Pri-

mary controls are front-mounted and tally lamps are provided. The price range is from \$695 to \$1,000. Optional features include a front panel switch control of undescan, A-B selection of two inputs and switchable horizontal and vertical pulse-cross display.



Camera tube test channels, designed to measure performance characteristics, particularly build-up and decay lag, of photoconductive camera tubes used in color TV cameras, are manufactured in England by Link Electronics and have been announced in the United States by Television Equipment Associates, Box 1391, Bayville, NY 11709. The lag measurement part of the equipment is based on a BBC design, the equipment presenting a digital display of the lag, either build-up or decay, over a selected number of fields. The complete test channels incorporate a camera channel, the necessary measurement oscilloscope and picture monitor, an automatic transparency changer, the optical bench assembly with lens and yoke lag meter, and light sources and filters to

measure sensitivity in the three primary colors. The test channels are built into a console which has storage space for the tubes under test. The price is \$20,000.



The Vinten Type 723 Low-Angle Dolly, which turns within its own length, has been announced by Listec TV Equipment Corp., 35 Cain Dr., Plainview, NY 11803. It is manufactured in England by W. Vinten Ltd. The dolly permits low-angle shooting with complete camera maneuverability over a 21-in range down to 4½ in with a television studio pedestal. The platform, operated on hydro-pneumatic principles, houses a nitrogen cylinder/pressure gage, oil reservoir and pump, and a counterbalance cylinder for ease of height adjustment. The nitrogen cylinder is precharged for a given weight of camera and oil pumped under pressure provides the equalizing force. Once the balance is achieved, only slight manual pressure is needed to vary the camera height. The complete pedestal weighs 150 lb. Total load capacity is 350 lb and the unit has front-mounted wheel castors. The overall length is 55 in and the width is 27 in. The price is \$2,800.

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The HP Model 8558B Spectrum Analyzer has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The spectrum analyzer (0.1 to 1500 MHz) is a plug-in for HP 180-series oscilloscopes. For most measurements only three controls need be used. "Tuning" sets either the center-frequency or the start-frequency of the display which is indicated on a 3½-digit LED readout. "Frequency Span" sets the width of the frequency window to be viewed. The span range is 1000 MHz to 50 kHz. The "Reference Level" (amplitude) directly calibrates the display in absolute power unit. The range is -115 dBm to +30 dBm. When the frequency span control is set, the analyzer automatically selects the optimum resolution bandwidth and sweep time. If the operator chooses to override the automatic selections, resolution bandwidths from 1 kHz to 3 MHz can be chosen. Model 8558B is priced at \$3,350.



The Model 90-12 16mm sound projector featuring automatic film threading has been announced by Kalart Victor Corp., Plaiville, CT 06062. The projector is called the "Golden Anniversary Model" to commemorate the 50th anniversary of the first 16mm camera and projector invented in 1923 by Alexander Victor, founder of Victor Animatograph Corp., the predecessor company to Kalart Victor Corp. The new projector has one-lever automatic film threading. The one-lever also adjusts top and bottom loop setters, closes the film path and turns on the lamp switch. The film path can be opened at any time to rewind the film. Other features include a solid-state 12-W amplifier of modular construction, top-mounted folding reel arms, a large-barrel $f/1.4$ projection lens with rack-and-pinion focusing and a 24-V, 200-W EJL projection lamp with built-in lamp ejector with a light output equal to a 100-W incandescent lamp. The projector is priced at \$780.



The Eumig Mark-S 710D-DeLuxe Dual 8 Sound Projector featuring an $f/1.0$, 18-

28mm Eumig Suprogon zoom projection lens has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. In other respects the new projector has the same features and operating functions as the Eumig Mark-S-710D. A 12-V, 100-W tungsten halogen lamp with an integral dichroic reflector complements the $f/1.0$ zoom projection lens of the new model. The unit has automatic threading; a 600-ft reel capacity; and ready interchange between super-8/single 8 and 8mm film projection with easily removed and replaced clip-on sprockets. The price of the new DeLuxe model is \$409.95.

The Mini Soft-Lite, weighing 8¼ lb and designed for two 500-, 750- or 1000-W lamps has been announced by Berkey-Colortran, 1015 Chestnut St., Burbank, CA 91502. Each lamp is individually switched for maximum versatility and intensity control. The area coverage is the same with one or two lamps on. A new combination mounting stud permits the luminaire to be mounted on stands with ½-in studs or 1½-in females. The price of \$150 includes 25 ft of cable.

A new professional VU meter for use with all Sonorex 16/16 Interlock Sound Projectors has been introduced by Arriflex Co. of America, 25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377. Supplementing the meter built into the projector, the accessory meter is housed in a separate console connected to the Sonorex by a lightweight cable. The new instrument is built around a substantial 3½-in meter movement. An illuminated, easy-to-read scale spreads over a 90° arc and is calibrated from -20 to +3 dB and from 0 to 100% of modulation. Response characteristics are designed to conform to ASA electrical and mechanical specifications for VU meters. All Sonorex 16/16 Interlock projectors are provided with an outlet for use with the Sonorex VU meter. The Sonorex VU meter is priced at \$225.

Noris Splicomatic film splicers have been announced by Karl Heitz, 979 Third Ave., New York, NY 10022. The splicers, manufactured in Germany, are available for 8mm, super-8 and 16mm film. Both ends of the film are inserted in the machine and the spliced film is automatically ejected. The 8mm and super-8 machines are priced at \$43.95. (The price was formerly \$39.95, but because of the dollar devaluation the price was increased.) The 16mm machine is now priced at \$65.95.

A shipping and storage case designed to accommodate most 80 or 120 Kodak-type rotary Carousel slide trays together with components required for a complete program, including two cassettes, tape reel and instruction manual, has been announced by Plastic Reel Corp. of America, 640 S. Commercial Ave., Carlstadt, NJ 07072. A cushioned insert provides slots to hold each component. The case is made of Plio-Magic and is equipped with the PRC Positive Action Locking System, making it moisture and dust-resistant.