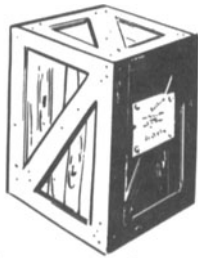


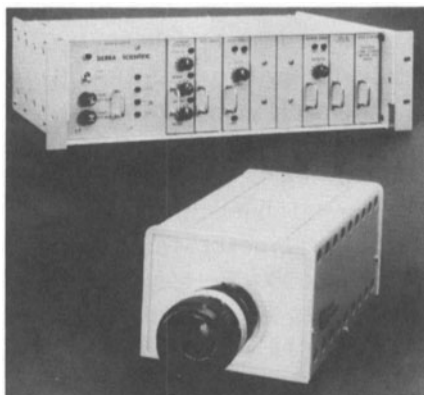
# new products

(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.

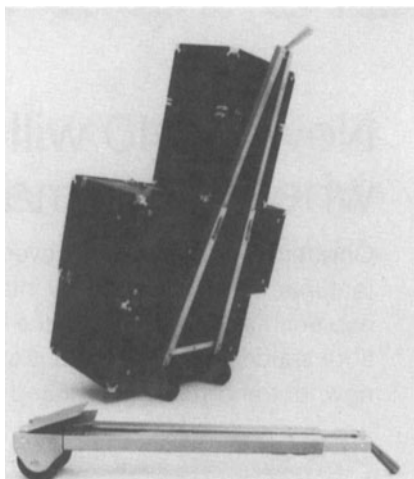
**The Editel Mark III** handheld color television camera has been announced by Editel Productions Ltd., 59 Champlain, Place Bonaventure, Montreal, Que., Can. The camera is available in a PAL system. The camera head weighs less than 20 lb and the backpack weighs 17 lb. The camera can be battery-operated and mounted on a shoulder harness. It offers a choice of lenses from 9mm to 1,000mm, including a 10 to 1 zoom. It is connected to the camera control unit by a lightweight 1/2-in cable. It can be operated up to 1,800 ft from the control unit. The price range is from about \$75,000 to \$80,000.



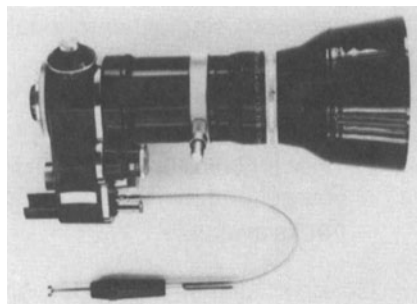
**The LSV-1.5 camera** which delivers 1300-line center resolution and 1000 TV lines in all corners simultaneously has been announced by Sierra Scientific Corp., 2189 Leghorn St., Mountain View, CA 94040. Linearity and geometric distortion remain constant at less than 1%. The system bandwidth is 30 MHz. Lens mounts are available for almost any 35mm camera lens. The camera has been used mostly by companies involved in document reading. It can also be used as a film pickup camera due to an automatic target control, low shading and an automatic black level accessory. The base price is \$5,500.

A **weatherproof TV camera enclosure** made of Dura-plastic has been announced by Visual Methods Inc., Box 644, 200 Birchwood Rd., Westwood, NY 07675. The enclosure has a shielded keylock to protect the camera from tampering. A housing top

with a 4-in sunshade swings back for servicing. The camera mounting track is hinged for easy camera access. Video and ac coaxial connections are recessed and raised so as to be waterproof. Interior dimensions are 22 x 8 x 8 in. The price is \$69.95. Available accessories include thermostat, heater, fan and filter. With the four accessories the enclosure is priced at \$149.95.



**Tota-Ton**, a folding handcart for carrying photographic, television or sound equipment easily and compactly, has been announced by Richard C. Polister, 1741 Glenview Ave., St. Paul, MN 55112. The handcart folds up small enough to fit in the trunk of a small car. It weighs 10 lb and is 35 in long when folded. It can be shipped with luggage on any airline. It has 4-in rubber wheels which enable it to be easily pulled up on curbs. The price is \$46.50.



**The Vario-Switar POE-4 f/1.9 zoom lens**, an improved model of the POE 100, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The lens has a power zoom from a wide-angle 16mm to a telephoto 100mm (1:6.25). It is provided with a new electric eye with an increased sensitivity range from ASA 10 to ASA 400. The lens has been designed exclusively for Bolex H-16 reflex cameras and the Bolex EBM. It focuses down to 4 ft and is available in both "C" and bayonet mounts. The lens is intended for use by both amateur and professional filmmakers and has logically placed controls for ease of operation. The lens weighs 2 lb 14 oz. The tumbler switch, operating the power zoom, is next to the release button to give the cameraman a firm grip on the camera. The motor operating the power zoom is driven by two small Mallory PX-1

batteries. Zooming through the full range takes from four to six seconds. For very fast or very slow zooming there is a manual zoom control. The lens provides a choice of fully automatic exposure, manual diaphragm setting or selective automation. It is priced at \$940.

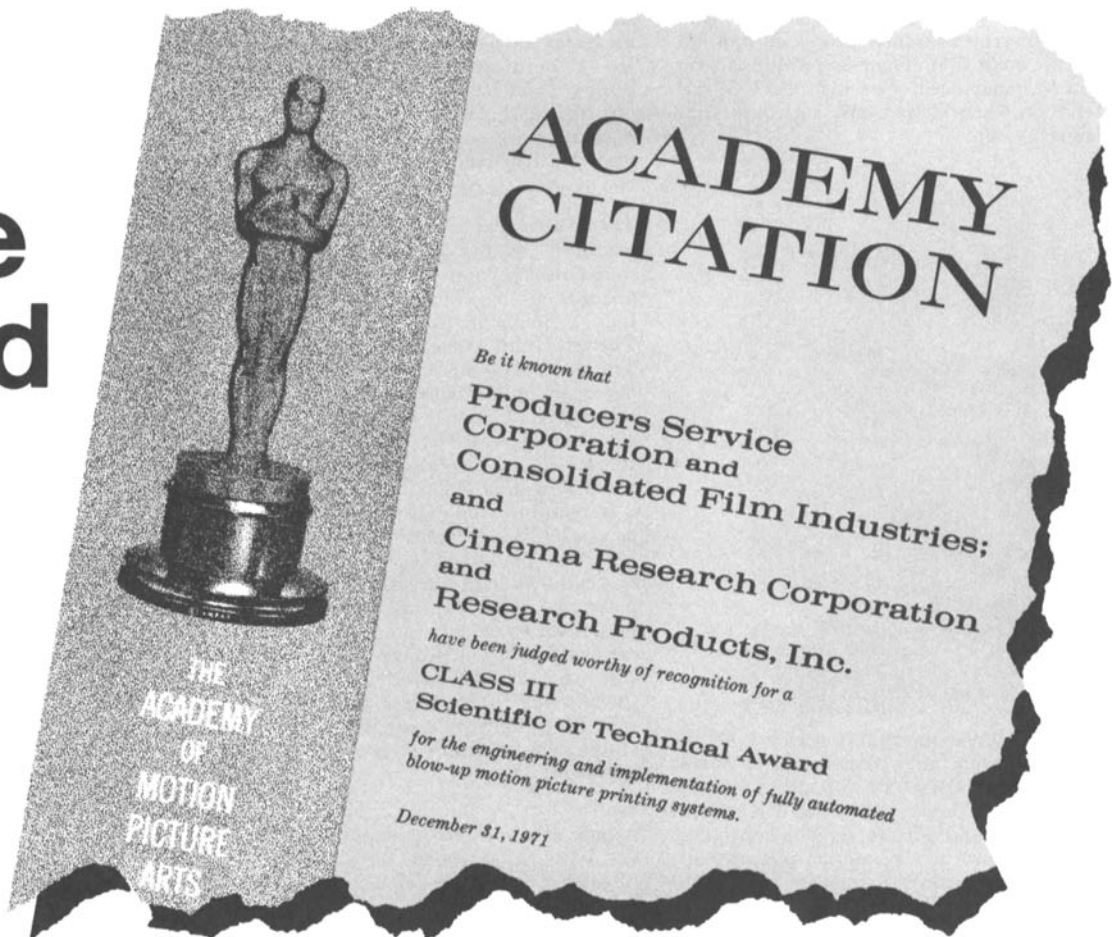
**The Bolex 233S** super-8 movie camera, an improved model of the Bolex 233, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The restyled camera now accepts the new 160 ASA Ektachrome film. The camera has an electric eye that automatically adjusts itself to the increased sensitivity. The camera can focus from 4 ft to infinity. A universal lens setting permits filming from 7 ft to infinity without focusing. The lens zooms from 9mm to 30mm and the diaphragm is set automatically at openings from f/1.9 to f/16. The price is \$120.



**The Sweep-Focus Baby**, a 6-in 750- to 1000-W Fresnel spot has been announced by Berkey Colortran, Inc., 1015 Chestnut St., Burbank, CA 91502. A new lamp has been designed exclusively for this unit. A rapid-focus lever permits variable spot-focus settings in seconds. Double-wall construction keeps the unit cool. A swing-away front door with a captive accessory latch is designed to permit easy relamping without affecting accessory positions. The unit weighs 10 lb. The price is \$98.

An **all-glass filter**, Type CG7 (1 mm thick), for converting a quartz-iodine tungsten lamp to approximate a xenon lamp or for converting a xenon lamp to approximate daylight has been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, NY 10802. The filter is also available in a double thickness (2 mm) for converting a quartz-iodine lamp to approximate daylight. The new filter is a blue filter with a temperature-conversion rating of -80 mireds (micro reciprocal degree) and it can be supplied in various sizes and shapes. For use with highly concentrated heat energy, a circular filter can be supplied in "pie-slice" sectors or a square or rectangular filter can be supplied in strips such as 3 x 1 in or 6 x 1 in. Such assemblies of sectors or strips have less thermal breakage when heated

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... that both Research Products, Inc. and Cinema Research Corp. (our optical printing service associate) received the Academy Citation for the engineering and implementation of a fully automated blow-up motion picture printing system.

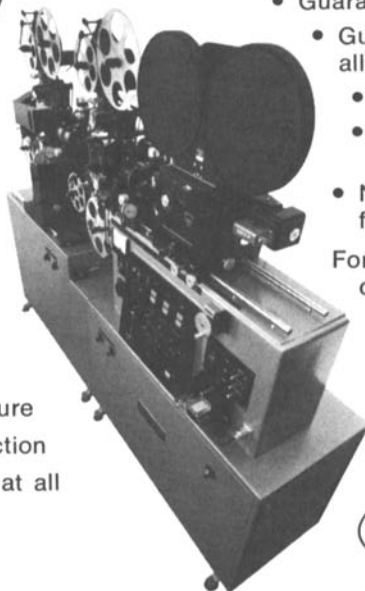
This system is noted for its liquid gate, high speed (40 feet per minute) operation, and utilizes the Bell & Howell Additive Color lamp house. Fully tape programmed, it will automatically make light changes from scene to scene and six lengths of fades or dissolves while doing the blow-up. This system has been in use for over three years and has made numerous quality blow-ups at the lowest possible costs.

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Let's take a look at the newest Research Products optical printer, the Model 2101 (illustrated).

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- Distortion effects
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The 2101 is the most modern, lowest price, fully equipped combination 16mm/35mm optical printer available today. It features the new "PhotoTron" solid state electronic film drive that obsoletes cumbersome gears, shafts, pulleys, belts and stop-action clutches. It has many "plus" factors such as

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nonuniformly. The filter has been reported to improve the high-speed quality-control laboratory inspection of processed motion-picture color film. The colored film is seen in better balanced color with the CG7 filter than when viewed only with a quartz-halogen lamp.



A large pear-shaped lamp with a 1,000-W quartz-halogen inner filament tube, called Scoop Lamp (Q1000/PS52/4) has been announced by General Electric Co., Nela Park, Cleveland, OH 44112. The lamp, designed for use in TV, motion-picture and still photographic studios, is frosted to

make softer, more diffuse shadows than smaller lamps of equal light output. It measures 6½ by 13 in and fits in standard 16- or 18-in scoop reflectors and can be burned in any position for an average life of 500 h at 3,200 K. It is designed to be noise-free even when used on solid-state dimmers. The lamp is priced at under \$20.

The Multi-Track 100 series, individually mounted removable and interchangeable sound recorder reproducer units, has been announced by Multi-Track Magnetics, Inc., 1 Ruckman Rd., Closter, NJ 07624. The basic unit is the portable Baby Multi-Track R104U, a rugged recorder-reproducer, complete with electronics and accessories, mounted in a 19 × 15¼-in welded aluminum frame. It is available in 16mm, 35mm, 16/35mm and 17.5/35mm. It is priced at \$3,700.

If required, the Baby Multi-Track can be placed in a different framework and appropriate "building blocks" and accessories can be added to create, for example, a pickup recorder with up to six tracks in a 19-in rack or a dual system with two independent film handling mechanisms, a three-track pickup recorder-reproducer on the left side, a reproducer on the right side with up to four-track capability in a 24-in studio cabinet or any size of equipment in between.

A new stereo mixer/preamplifier, Model CMA-10-2D, intended for use in small broadcasting stations, schools, and similar

applications, has been announced by Bozak, Box 1166, Darien, CT 06820. The machine is a solid-state all-silicon unit for reproduction of live and recorded stereo programs. It has four stereo inputs. Two are low-level phono, equalized for magnetic cartridges; two are high-level, high-impedance for tape deck, tuner, etc. Each has its own level (fader) and balance controls. Two mono inputs are provided for use with either low- or high-impedance microphones and are switchable to left, right or both output channels. The price is \$496.



An omnidirectional dynamic microphone, Model SM61, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. The new microphone offers a smooth, wide-range frequency response and a natural, uncolored sound. Frequency levels are held constant through varying distances between user and microphone. A shock-mounted design eliminates or minimizes cable, handling and mechanical noises. It has a rugged design to protect performance characteristics. It is priced at \$66.

The S-30 Synchronizer, a speed resolver and battery charger for the Nagra SN recorder developed by Stewart R. Cody Co. of Boston, Mass., has been announced by The Camera Mart Inc., 456 W. 55 St., New York, NY 10019, exclusive East Coast representative for the S-30 Synchronizer. The machine makes possible the transfer of ½-in tapes directly from the Nagra SN without requiring the use of a second recorder. The device extracts a reference signal from the Nagra SN audio signal and synchronizes the SN playback speed to match the absolute recorded speed. The signal conditioner circuit contains cascaded active filters specially designed for slow transient response and sharp cutoff to ensure maximum phase lock stability under conditions of large pilot level variations. The phase lock loop incorporates a pilot level threshold circuit for wide locking range and high noise immunity. The price is \$549.50.

An improved sound effects system, the SS-1000-A, has been announced by Universal Research Labs, 2501 United Lane, Elk Grove Village, IL 60007. Each sound is on an individual modular printed circuit board that plugs into an interconnect assembly. The new system has two channels to permit using primary and secondary effects, a built-in 30-W amplifier and a lighted sound display showing which modules are selected. Controls include 11 pushbuttons for 10 sound effects (five primary and five secondary) and power ON/OFF, master gain, master tone, line output and external speaker output. The sys-

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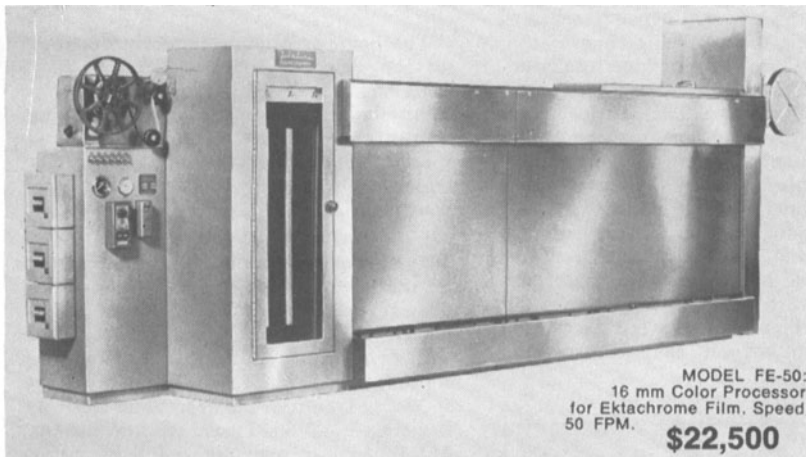
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- **"TORQUE MOTOR TAKE-UP"** gives you constant film take-up and does not impose any stress or strain on the film itself. Completely independent of the film transport system. This FILMLINE feature is usually found in professional commercial processors but is incorporated on the FE-30 and

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combination of the exclusive and special added Filmline features guarantees trouble-free operation with absolute minimum down-time and without continual operator adjustments. Recapture your original investment in 2 years on maintenance savings alone. Filmline's "Push the button and walk-away processing" allows inexperienced operators to turn out highest quality film.

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TV Stations: WAPI-TV, WHP-TV, WMAL-TV, WXYZ-TV, WWL-TV, WMAR-TV, WJXT-TV, KETV-TV, WTOP-TV, WEAT-TV, WCKT-TV, WAVE-TV, WAVY-TV, KTVI-TV, WCPQ-TV, KTAR-TV, WSYR-TV.



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tem is self-contained and accepts up to five plug-in modules. It weighs 12½ lb and operates from any 117-V ac outlet. The firm has an extensive library of sound effects. A few of the sounds are airplane crash, thunder clap, animal growl, bird chirp and audience cheer. The SS-1000-A is \$295. A rack-mounted model is available at a price of \$315. Sound modules are priced at \$35.



The SelectaVision MagTape player-recorder, designed as a self-contained package for use with an unmodified conven-

tional TV receiver, has been announced by RCA Corp., Consumer Electronics, SelectaVision Business Development, 600 N. Sherman Dr., Indianapolis, IN 46201. The player-recorder is expected to be commercially available late in 1973. It is expected that in addition to the self-contained package the SelectaVision will be made available in console models for use in combination with a color TV receiver. The device permits recording of programs off-the-air for later viewing and a TV camera input connector allows the user to make his own instantaneous home movies complete with sound. A black-and-white camera will be available when the player-recorder is first marketed. A color camera is presently being developed.

The player-recorder uses a cartridge of molded plastic construction measuring 9 × 6¼ × 1½ in. It uses ¼-in tape of chromium dioxide high-energy type. It contains 918 ft of tape for a playing time of 1 h. When not in use, the cartridge totally encloses the tape so that hands need never touch the tape surface. The cartridge is inserted into the MagTape player-recorder in one continuous motion. As the cartridge enters the player-recorder, a lever opens an aperture at the forward end of the cartridge, exposing the tape. The cartridge approaches the headwheel which contains four magnetic heads. The headwheel size relative to cartridge size results in a 90° tape wrap which allows lower tape tension and less tape stretch than conventional wrap techniques.

The In-Cartridge Scanning feature eliminates threading, thus reducing strain on tape during loading and unloading. When the cartridge is fully inserted, the headwheel extends inside the cartridge permitting head-to-tape contact. Two urethane-coated capstans are located at the entrance and exit of the tape contact area to provide tape motion control. Removing the cartridge is accomplished by one-step pushbutton operation. The tape is withdrawn from the headwheel, the aperture is closed, the tape is tightened and the reels are locked to prevent unwinding and the cartridge is again completely sealed.

Among other features of the new magnetic tape player-recorder is a method of continuously sensing timing errors and automatically correcting them by adjusting tape tension. The tape transport component will be manufactured by Bell & Howell.

The Scanner Module is newly designed for the SelectaVision MagTape System. Long headwheel and bearing life and concomitant benefits of four-head scanning result from the use of slower scanning speeds. The modular design permits speedy replacement of headwheel and other components.

The Varispeech machine, a tape recorder for time compression and expansion which allows speech recorded on tapes to be played back at any speed between half and two-and-one half times original recording speed without affecting pitch or speaker's identity, has been announced by Lexicon, Inc., 60 Turner St., Waltham, MA 02154. For example, a full hour cassette may be audited in 24 min or a garbled or excessively rapid passage may be slowed to permit a detailed syllable-by-syllable analysis. The Varispeech machine compresses and expands playing time through electronic signal processing. It converts the voice signal to a digital format, correcting it for pitch, and then converting it back to an analog or voice representation without loss of intelligibility or speaker identification. The only moving parts in the Varispeech machine are those required for normal tape cassette handling. The machine is portable (18-lb weight). The price is \$1,500.

The VW-O TV waveform monitor has been announced by Ultra Audio Products, P.O. Box 921, Beverly Hills, CA 90213. It has been designed primarily for closed-circuit applications but it can also be used for broadcast applications. It is available as a portable unit or it can be rack mounted. The instrument has a vertical axis bandwidth of 7 MHz and a calibration voltage of 1 V peak-to-peak internally generated. It is 9¼ in high, 12¼ in deep and 8 in wide. It weighs 19 lb. The price is \$575.

The firm also announced the PC-95 video monitor. Features include pulse cross and normal displays, underscan, 10-MHz response, built-in audio, variable bandwidth, 9-in diagonal screen, dc restoration, external mixed-sync and vertical sync inputs. It can be mounted side by side with the VW-O waveform monitor. The PC-95 is priced at \$575.

Video Selector Model 649, a six-station switch operated by depressing pushbut-

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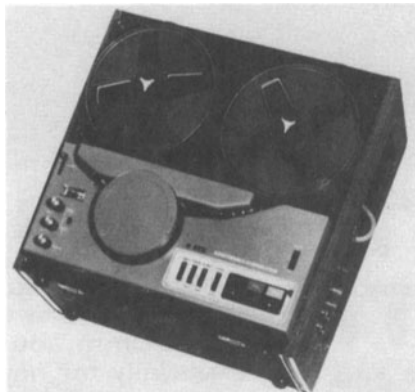
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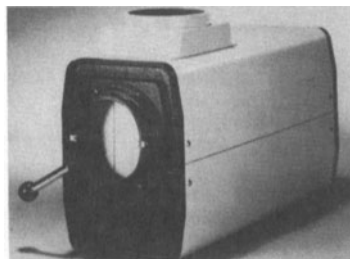
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tons on the panel front, has been announced by Switchcraft, Inc., 5555 N. Elston Ave., Chicago, IL 60630. Only a single output can be connected at one time. Depressing the switchbutton releases the previous selection and automatically locks in the new connection to the output. Form D switch circuits (make-before break) are used to make sure that input signal lines are not "open circuited" during switching. Each input signal is terminated with a 75-Ω resistor to maintain correct line termination impedance when the input line is not connected to the output. Applications include closed-circuit TV in security systems and other video requirements; commercial radio and TV in switching RF and video in studios, control rooms and remote locations; and engineering and test laboratories for switching typical signals in a test situation. Model 649 is priced at \$95.



**The EIA-J Full Color Videotape Recorder, Model PVR709**, has been announced by Audiotronics Corp., 7428 Bellaire Ave., North Hollywood, CA 91605. Features include full color record and playback, electronic editing and slow motion. Other features include the Program Command Center with remote-controllable pushbutton tape transport; complete EIA-J tape interchangeability with other videotape recorders; and a built-in two-input video/audio switcher for simple two-camera operation. There is only one output and it is possible to monitor only one camera at a time. With the two-input video/audio switcher the operator decides which camera that is to be. The PVR709 also has audio dubbing capability for adding or editing audio, automatic level controls for automatically adjusted recording of both audio and video and automatic end-of-tape shutoff. The price is \$1,295.



**The Orcon Model 3000 xenon lamphouse** has been announced by Optical Radiation Corp., 6352 N. Irwindale Ave., Azusa, CA 91702. It is designed mainly for use in medium-size theaters or auditoriums where

screens up to 55 ft in width are used. The lamphouse is 15 in wide, 17.5 in deep and 24 in high. It weighs 235 lb. It is capable of projecting 30,000-1m open shutter illumination through an f/1.7 projector lens enabling it to illuminate a screen up to 55 ft wide with 16 fL. The Orcon 3000 system consists of a xenon light projection lamphouse and a separate solid-state current-regulated dc power supply. The lamphouse and power supply are electrically interconnected by a single insulated cable which contains all necessary dc and control wires for operation. The lamphouse uses a high-intensity, ozone-free xenon lamp for projection for 1500 h of operation. The lamp is horizontally mounted within an aspheric metal reflector which maintains a screen brightness distribution of 75 to 85%. While in operation, the power supply current can be adjusted continuously by a rheostat, allowing the projectionist to vary screen brightness as required. The system can be used with all automated projection systems without requiring any circuit modification. Other features include an ammeter for monitoring lamp current, an elapsed time indicator for indicating total hours of system operation and a manual lamp douser for extinguishing the light from the lamphouse to the projector. Price of the lamphouse, including the power supply is \$2,875. The price does not include a xenon bulb. The X-2500 bulb is priced at \$335 and the X-4000 bulb at \$580.



**The Heurtier ST 42 Stereo Xenon Super-8 Projector** has been announced by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403. The new projector is designed to make it possible to project super-8 films in large theaters (up to 1000 seats). The projector has been equipped with a xenon lamp system to provide the required light intensity. The projector system consists of two parts—the projector with an automatic lamp starter, blower, ammeter and hour counter, and a pedestal with rectifier, 6-step switch and height adjustment for the

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projector. There is also extra space for storage of the loudspeaker, microphones, earphones, films, etc. Other features include stereo sound, transistorized amplifier, projection speeds of 18 or 24 frames/s, forward and reverse projection (double-claw system) and automatic film threading (manual threading possible). The projector is supplied with a Schneider Xenon 12-30mm f/1.3 zoom lens and a General Electric xenon lamp, type XE 500 EAR (500-W). Price of the projector is \$5, 123.

**Prospector 30**, a silver recovery unit designed especially for use in small laboratories, has been announced by X-Rite Co., 4500 Roger Chaffee Dr., S. E., Grand Rapids, MI 49508. The unit can recover silver at a maximum rate of about 0.37 troy oz/h from various types of black-and-white or color fixing solutions. It is designed primarily for use in a manual or batch recovery method, however, two fittings are supplied to allow direct plumbing connections. The lift-off plating unit is driven by a gear-reduction motor at 120 r/min to facilitate efficient plating with a minimum of sulfiding. The cathode disc elements are separated by nonconductive spacers which do not plate over so the silver is deposited on the discs where it is easily removed. The unit has rotary action, 3-A capacity, variable current control and an ammeter monitor panel. It is priced at \$190.

**Silver-estimating test papers** chemically treated to measure the silver content of photographic fixing solution have been announced by X-Rite Co., 4500 Chaffee Dr., S. E., Grand Rapids, MI 49508. The test papers are produced by Johnsons of Hendon Ltd., London, and are repackaged by X-Rite for marketing in the United States. The papers are not intended for critical laboratory use but are useful in controlling the fixing bath and in estimating the efficiency of silver recovery. The papers are supplied in small books. They are bright yellow in color and when dipped into a fixing bath darken to a shade of brown which depends on the silver content of the solution. A color chart is provided showing color changes in eight distinctive steps to a maximum of 1¼ oz/gal (10 g/l). The papers are packaged in a plastic box containing 10 books of 20 strips, one color chart and instructions. Each box is priced at \$4.95.

A compact, portable film processor, Model D-16, with a capacity of up to 200-ft of super-8 to 35mm film has been announced by Micro Record Corp., 487 South Ave., Beacon, NY 12508. The unit is motor-driven and all procedures other than the loading of the film are done in daylight. The film is placed on spindles of the developing tank and a light trap is placed over the film. Separate tanks are provided for the various solutions and the mechanism, with the film in motion, is transferred from tank to tank. The washing is accomplished in a tank provided with a hose that can be secured to a water faucet. The film requires no attention from the operator until after the final washing when it is removed from the tank and placed on the drying rack. The unit mea-

sures 13½ × 8 × 10¼ in. It weighs 11 lb. The price of \$228 includes the driving mechanism, light trap, three nested tanks and three feet of rubber hose with faucet adapter for washing.

A new Clean Work Station has been added to the 7000 Series Laminar Down-flow Clean Work Stations by Agnew-Higgins, Inc., 7091 Belgrave Ave., P.O. Box 857, Garden Grove, CA 92642. The new unit has a 36-in deep work chamber — deeper by 6 in than the normal-sized work chamber. No floor space is wasted since the blower-filter module is overhead. The downward flow of clean air through the work chamber is deflected by the work surface and passes the worker in a horizontal direction. The horizontal outward flow rinses particles shed by the worker backwards into the aisle area. The work surface is independent from the blower-filter stand unit which eliminates direct transmission of vibration to the work. The new unit is available in 4-, 6- and 8-ft sizes at prices of \$1,180, \$1,270 and \$1,480.

The **Hervic/Minette super-8 "S-5"** model Viewer-Editor has been announced by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403. The unit has an all-metal body construction. Features include a specially designed built-in optical condenser to provide a bright and sharp image reproduction on the viewing screen. The machine has been designed to protect the film from scratches and other abrasions. Built-in rewinds can handle up to 400-ft reels. Viewing screen size is 3.8 × 2.8 in and viewing is possible in brightly lit rooms. The price is \$85.

Two slide sync models, a recorder/player and a player have been announced by Telex, 9600 Aldrich Ave. South, Minneapolis, MN 55420. The machines are designed for educational purposes. Each unit has a Review Key which can automatically back up the presentation to any desired point while keeping audiotapes and slides in synchronization. Both models have instant pause capability, tone and volume controls, tape fast forward and reverse and end-of-tape sensing. The recorder/player is priced at \$399.95 and the player is priced at \$324.95.

An improved model of the **Oscar Fisher Jet Mixer** has been announced by The Oscar Fisher Co., Newburgh, NY 12550. The Jet Mixer is designed to mix, pump and transport photographic chemicals. New features include larger casters for greater ease of movement and a stainless-steel drain valve to utilize every drop of the mixed solution and for ease of cleaning. The improved mixer has a newly designed pump with a mechanical seal and a new agitator nozzle for more rapid mixing of all types of photographic solutions. The mixer is constructed of Type 316L stainless steel. It combines a mixing tank with a motor mix pump and distribution line plus a noiseless girder-type dolly. An air-seal lucite floating cover is used to assure minimum oxidation. It is available in sizes ranging from 10 to 200 gal. The 10-gal size is priced at \$280 and the 200-gal size is priced at \$774.