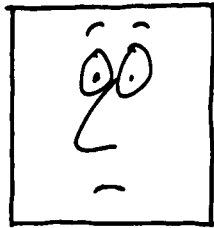
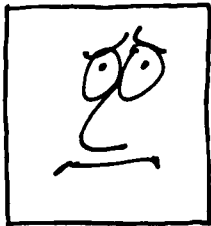




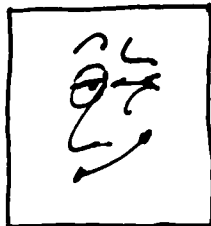
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It would be like running a college.



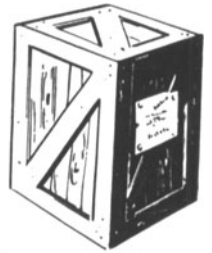
Because tuition pays only about $\frac{1}{3}$ of what it costs a college to educate a student.



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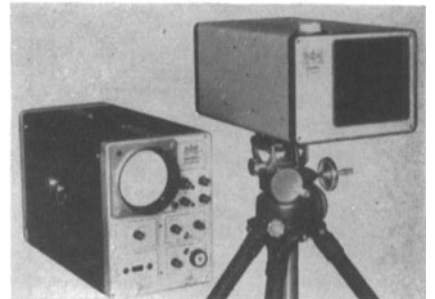
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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



A new wide-angle infrared camera designed to detect and display instantly target temperature variations as small as 0.1 C has been introduced by Barnes Engineering Co., 40 Commerce Rd., Stamford, Conn. 06902, sole distributor in the United States and Canada. The camera was developed by AB Bofors of Sweden. The camera has a nitrogen-cooled indium antimonide detector to provide a continuous thermal image of its target on an oscilloscope display; 4 frames/s are produced. Each thermal picture contains 125 scan lines; each line consists of 250 separate temperature points for a total of 125,000 discrete temperature measurements per second. The instrument has a 25° by 12.5° field of view to permit rapid scanning of large targets from reasonably short distances. Its effective working distance is from 12 in. to infinity. Its normal temperature range is from -20 C to +150 C, which can be extended to higher temperatures if required.

The system consists of a 57-lb optical head and a 33-lb electronic control unit, which includes the oscilloscope display. Scanning the target, the optical head converts naturally emitted radiation into a proportional electrical signal. The signal is continuously displayed on the face of the oscilloscope in the form of a heat map — warm objects appear light and cold areas dark. The built-in "real time" capability permits the camera to detect and monitor rapidly changing temperature phenomena. Besides its use in industrial nondestructive testing, the camera serves as a diagnostic aid in medicine to detect certain types of tumors, circulation impairment and sub-surface injuries. Price of the instrument is \$21,975.



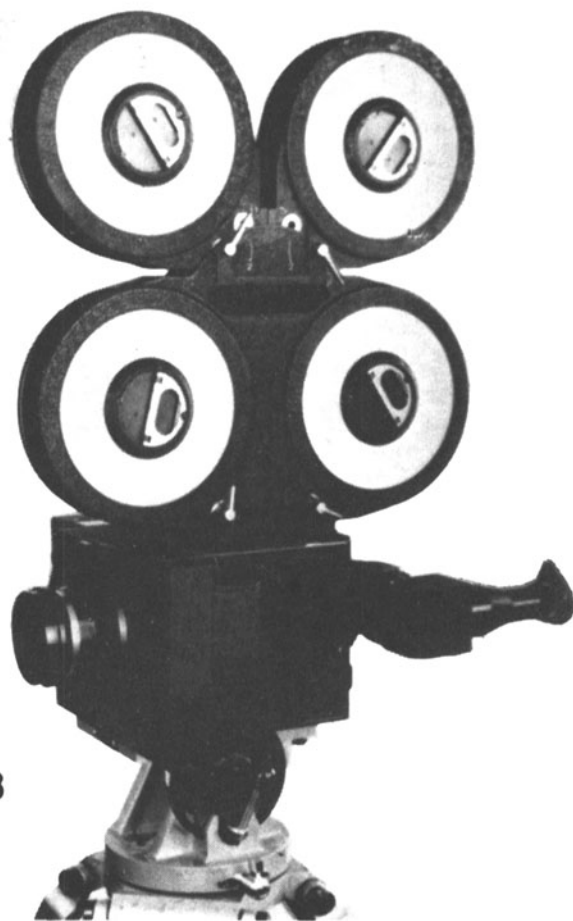
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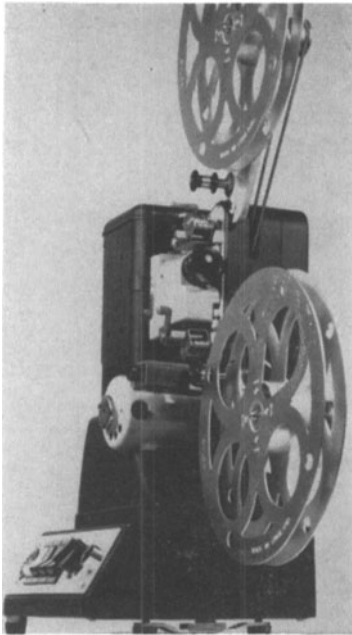
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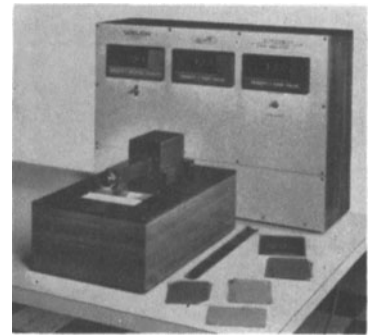


The Clarke & Smith Mark III projector, designed by Clarke & Smith International Ltd., England, specifically for film analysis, has been introduced by Irondequoit Industries, Box 7637, Rochester, N.Y. 14622. The projector operates electronically at selected automatic projection rates of 2, 4, 8, or 16 frames/s, or in still or single-frame pulse mode and in forward or reverse. (Optional automatic rates of 3, 6, 12 or 24

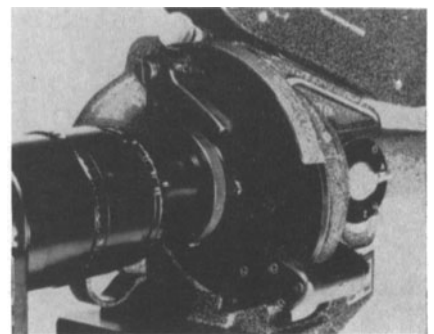
frames/s are available on special order.) The projector can handle all sound or silent 16mm film. The shutter speed remains constant at all film speeds, eliminating flicker. The unit is operated by relays, electromagnetic clutches, and transistor switching circuits. Controls are electronic and a voltage stabilizer is built in. Operation of all functions is at the machine as well as with a plug-in remote control module when required. The 100-W quartz-iodine lamp is cooled by a fan which blows directly onto the gate aperture. A second fan mounted on the main drive motor provides general circulation of air through the projector. Other features include fast pulldown for increased picture illumination, built-in frame counter and 800-ft spool capacity. Applications include motion study in athletics and sport, education, industry and medical and scientific research. The projector is priced at \$1,175.

The Megadyne 300 High-Speed Image Dissection Camera System has been announced by Photosystems Corp., 52 Newtown Plaza, Plainview, N.Y. 11803. The camera is designed to record 1500 sequential photographs at rates of 15/s to 600,000/s. The photographs are continuously recorded on a single 4- by 5-in. plate to eliminate time losses between frames and insure that high-speed events are completely recorded. Picture resolution is 317 lines by 254 lines; 80,000 elements. An electromagnetic drive opens the shutter in 1 ms and closes the

shutter in 1 ms after completion of the event. The camera can be triggered by the event, trigger the event or be triggered manually. An illumination unit facilitates playback of a processed plate. A control console contains the camera's primary controls and indicators on the front panels. It can be located away from the camera by means of interconnecting cables. The system, including camera, remote control unit, cables (10 ft), playback illumination unit, two supplementary lenses, magazine and mobility cart, is priced at \$24,950.



The Densichron No. 3859A, a digital readout color densitometer and pack analyzer, has been announced by Welch Scientific Co., 7300 Linder Ave., Skokie, Ill. 60076. It reads simultaneously red, green and blue and gives a logarithmic readout digital display of computed density values. The pack analyzer mode switches to a circuitry employing a computer which subtracts the red reading from the blue and green. The digital display is given in red or neutral density; green and blue are net density. Three displays give a speed and color description of the filter pack. A filter pack with specific color characteristics is made up by calculation or testing. Sample filters are inserted into the beam until specified color differences are indicated on the display. The instrument is priced at \$4,800.



A single lens turret and support assembly for the Arriflex 35mm camera to accommodate the Angenieux 25-250mm zoom lens has been designed and built by F&B/Ceco Inc., 315 W. 43 St., New York, N.Y. 10036. The new turret utilizes a positive-type bayonet lock similar to that used on Mitchell BNC cameras. The mounting is constructed so that the flange focal distance adheres to a tolerance of 0.0005 in. The lens is supported by a double arm bracket with a split ring locking device to enable the cameraman to quickly separate the lens from the bayonet turret, slide it forward on




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rate bass and treble controls permit adjusting sound for maximum fidelity. The P6 has a sharp f1.3 lens and powerful 250 watt quartz iodide lamp that team up for brilliant, true-color projection. Its 2000 foot capacity can be extended to 4000 feet, with optional accessory arms. Other accessories include dynamic microphone, accessory speaker system and a choice of lenses from 25mm to 75mm.

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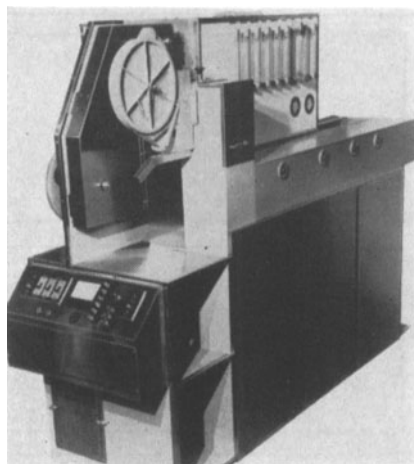
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the support bracket, check and clean the aperture and slide the lens back in place without removing it from the bracket. Price of installing the turret and lens mount on camera and lens is \$700, including entire support bracket assembly.



A processor for 16mm and super 8 Ektachrome film has been introduced by Houston Photo Products, Inc., 655 E. 20 St., Yuma, Ariz. 85364. Designated Model E-16-8-30, the machine is only 8 ft long and can be operated in a fully lighted room. It is completely automatic from load to take-off and processing times and solution temperatures are controlled for uniform results. The machine is priced at \$9,625. A similar machine for 35mm and 16mm Ektachrome is priced at \$9,750.



A closed-circuit 16mm color TV film chain has been introduced by Bell & Howell, 7100 McCormick Rd. Chicago, Ill. 60645. The system includes a 16mm projector, a unipler head, color video camera and two pedestals containing racks for the installation of video-tape recorders or other electronic equipment. The camera can be removed from its pedestal and with the addition of a standard zoom lens can be used for normal studio use. The film chain can be expanded to a multiplex system having up to two more sources — 16mm and 2 × 2 slides. The film chain camera output is NTSC-type color that can be utilized by

color RF modulators for transmission through antenna distribution systems, permitting standard color television receivers to be used for viewing. The film chain is priced at \$16,000.

A lead oxide vidicon in a 1-in. format, Type Z-7946, has been developed by General Electric Co. It was used in the new CBS-TV portable wireless Minicam Mark VI color camera at this year's Kentucky Derby and will be used in four of the Minicam cameras for the network's coverage of the national political conventions. The tube is still in the developmental stage. The Z-7946 has a lead-oxide photoconductive layer for high sensitivity, low lag and low dark current. It is 1 in. in diameter and 6½ in. long. It employs electrostatic focusing and magnetic deflection to meet portable camera requirements of light weight and low power consumption. The Minicam Mark VI includes an 18-lb camera head with viewfinder and zoom lens, and a 33-lb backpack with microwave transmitter, power supply, data link and receiver and digital control system.

A new electronic video-tape timer designed to permit exact timing of recordings on Ampex VR-2000 and VR-1200 series high-band color video-tape recorders and to make possible remote control of other studio TV equipment has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The timer digitally displays the time the video tape has been recording or playing back, either as "elapsed time" or as "time remaining." It displays correct time for all television standards and at tape speeds of both 7½ and 15 in./s. It can also turn on or off automatically other recorders, film chains and cue lights at any predetermined time within a program. Up to four remote readout units may be used with each master electronic timer. The master electronic timer is mounted in the recorder monitor housing. It is priced at \$2,500.

A new line of portable, table top, rear-screen projection units has been announced by Graflex, Inc., a subsidiary of General Precision Equipment Corp., Rochester, N.Y. 14603. Included are 35mm projectors, slide and filmstrip projectors and microfilm reader units. A slide projector called the Rotator Showcase has a 14- by 14-in. screen for large-audience viewing, a bright optical system and continuous operation using a 36-slide rotary drum. It weighs 29 lb and is priced at \$219.50.

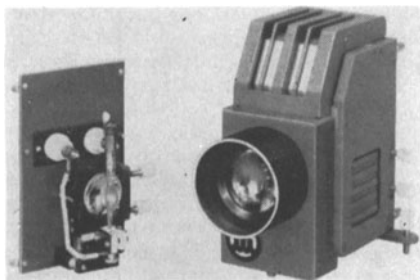
The Frezzolini Model 1000-D Power Pack and the Frezzolini Crystal Micro-Sync Generator have been announced by Alan Gordon Enterprises, Inc., 5362 North Cahuenga Blvd., North Hollywood, Calif. 91601, exclusive Western States distributor. The power pack and generator were introduced at the Society's 103d Conference in Los Angeles. The power pack weighs 3 lb 8 oz and the generator weighs 2½ oz. The Crystal Micro-Sync generator provides cordless sync sound and is available in two models, the Internal, which can be permanently installed in the Nagra, and the External, which can be used interchange-

ably with any Nagra. Both units have an output of sine wave 1 V rms, 60 Hz with 0.001% accuracy. The Crystal-Nagra Internal and External units are priced (each) at \$296.25.

The power pack has an output of 115 V, 30 W, 60 c/s and a running capacity of 1,200 to 2,000 ft with the supplied 4-Ah battery. It also accepts a 5-Ah battery to increase its capacity to 1,600 to 2,800 ft. Model 1000-ID is priced at \$780.

A "light pipe" model of a conventional short arc lamp has been developed by PEK, Inc., 825 E. Evelyn Ave., Sunnyvale, Calif. 94086. By attaching and drawing a stem to the lamp envelope, the actual light source can be coupled to a point source. The stem can then be drawn to meet various configuration requirements. Utilizing the principle of internal reflection in the glass extension. Several shapes have been drawn, ranging from a straight stem to a heart shape while maintaining a high luminous output. The technique can be used to develop one point source or multiple point sources, or single or multiple output stems from connections to fiber optics bundles. Although engineering measurements have not been quite completed, the technique has been announced to stimulate possible applications. Uses that have been tried or considered include point source application where condenser optics must be eliminated, coupling to fiber optics bundles, cold illumination light for micropulsers and planetarium star simulator optics. The light pipe is available in xenon, mercury, krypton or combination gas-filled lamps.

Focatron instruments for production alignment, quality control and optical measurement are produced by Photo-mechanisms Division, Inc., a subsidiary of LogEtronics, Inc., 15 Stepar Place, Huntington Station, N.Y. 11746. The Focatron is designed to locate accurately the plane of best focus at any point in an optical image and thus eliminate the person-to-person variations inevitable in focusing by reading resolution targets. A basic Focatron system consists of a probe and either a Model P-122 or Model P-122R readout unit. Model P-122 is a direct-reading instrument. Model P-122R is an expanded capability instrument that provides a permanent record of the information obtained during a laboratory test or production run. Model P-122 is priced at \$2,995 without probe or targets. Model P-122R is priced at \$8,900 without probe or targets.



The LH-370 lamphouse, featuring a 3-in. optical system consisting of a 4-element condenser, has been announced by Illumination Industries, Inc., 610 Vaqueros Ave., Sunnyvale, Calif. 94086. It is designed to

accept either xenon or mercury short-arc lamps from 35 W to 350 W. It is available in either Pyrex or quartz and it will adjust from a point focus to a collimated 3-in. beam. Principal applications are for semiconductor photo-resist systems or for general laboratory work. The housing is about 6 in. long, 8 in. high and 4½ in. wide with the optical projection train extending another 2 in. The lens barrel is adjustable to allow for focusing at various projected lengths. It is priced at \$325.

A 2000-W Multi "20" focusing quartz light has been announced by Berkey-ColorTran, 1015 Chestnut St., Burbank, Calif. 91502. The light can be stand-mounted or supported by standard grip equipment for both studio and field applications. At 20 ft, using a 2000-W (3200 K) quartz lamp. Intensity can be varied from 106 fc in the flood position to 799 fc in the spot position. Two models are available. The L.QF-20 stand-mounted model weighs 14 lb and has a cast aluminum yoke with an integral mounting bracket. The L.QF-20/TV hanging model weighs 8 lb and is equipped with a yoke and C-clamp for mounting on an overhead rail or pipe. Focusing is achieved by a pole-operated steel ring at the bottom of the housing. Both models are priced at \$107.

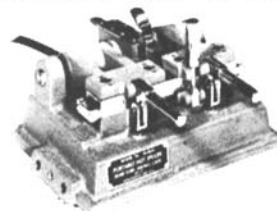
A 16mm ultra-high-speed panchromatic reversal motion-picture film designed especially for television news, sports and industrial instrumentation photography has been announced by E. I. du Pont de Nemours & Co., Wilmington, Del. 19898. Called Type 933, it is rated at ASA 500 daylight and 400 tungsten but it can be processed by increasing the first development time to produce speeds up to 1600 tungsten. A special antihalation technique is used to provide flare protection. The film is triacetate-based and has a hard emulsion to permit processing at temperatures up to 130 F. The new film is not suitable for use as a negative. The film was described in a paper presented at the Society's 103d Conference in Los Angeles by Warren W. Evans ("A New Ultra-High-Speed Black-and-White Reversal Film").

A new film, Eastman Color Internegative Film, Types 5271 and 7271, has been announced by Eastman Kodak Co., it will replace the Eastman Color Negative Film, Types 5270 and 7270 and will be available in 35mm and 16mm widths in the same sizes and at the same prices. Compared with Types 5270 and 7270, the new film provides improved color reproduction, slightly better granularity and sharpness characteristics and an increase of about 0.15 log E in effective printing speed. The new film has processing compatibility at 75 F with Eastman Color Print Film, Types 5385, 7385 and 7380. The film was described in a paper presented at the Society's 103d Conference in Los Angeles by R. C. Brown, R. A. Morris and R. O'Connell ("An Improved Color Negative Film").

The Kodak White Movie Leader has been announced by Eastman Kodak Co. It is available as 8mm X 1000 ft, super 8 perf. (WL584), 16mm X 1000 ft, perf. 2 edges

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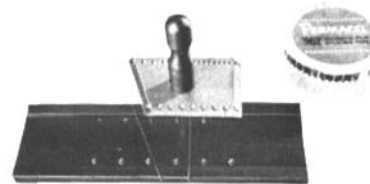
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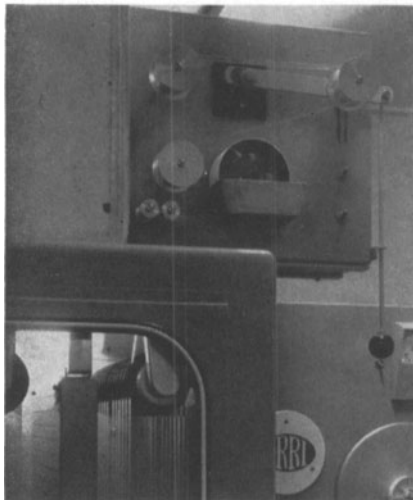
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(WL452), 16mm × 1000 ft, perf. 1 edge (WL458) and 16mm × 1000 ft (8mm perf). Prices range from \$.0052 to \$.0104 per ft.



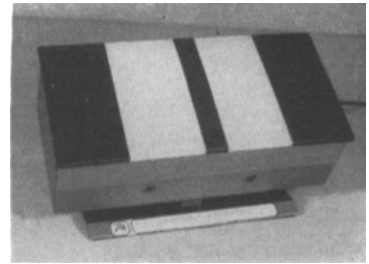
The Perma New Treatment machine, a device to be installed at the dry end of a developing machine to treat film with Perma Film Protection, has been announced by Permafilm Inc., 257 Park Ave. South, New York, N.Y., 10010. Perma Film Protection is a compound of selected non-volatile organic components, compatible photographically, which dissolve in a volatile solvent containing an antistatic agent and a fungus deterrent. When applied to the emulsion, the volatiles evaporate and

the nonvolatile organic compounds penetrate and impregnate the emulsion, replacing a portion of the moisture in the emulsion while performing the function of the replaced moisture.

The Perma Film apparatus has been installed in various laboratories throughout the world. The installation shown above is in the Commonwealth Film Laboratories of the Australian Government in Sydney, Australia.

Devices called **Optishroud** and **Fotoshroud**, designed to shield optical and photographic equipment from light, heat, dust, turbulence and other disturbances, have been announced by Shumway Optical Instruments Corp., One Blossom Rd., Rochester, N.Y. 14610. They are available in standard sheets or tunnel kits. Optishroud is a foam insulation board with aluminum foil on one side and optical black on the other. Fotoshroud is a reversible foam insulation board with diffuse optical white on one side and optical black on the other.

The Century Duplikin 16, an optical device for enlarging frames of uncut 16mm motion-picture film onto 35mm film, has been announced by Century Precision Optics, 10659 Burbank Blvd., North Hollywood, Calif. 91601. The device enables the making of color slides or black-and-white snapshots from 16mm frames. The optical system is color corrected and coated. The price of \$99.50 includes a Baush & Lomb 25mm micro-copy lens.



A **small transparency viewer** for desk use or portable applications has been announced by Gryphon Corp., 101 E. Santa Anita Ave., Burbank, Calif. 91502. Features include daylight color temperature and illuminance in excess of 1,000 fL. The aperture measures 2½ × 4 in. and is provided with three adjustable masks to make it possible to illuminate only that area of a film which is to be viewed or provide for side-to-side comparison with a known standard. The viewer is 6½ in. long and stands about 4 in. high on its pedestal base. It is priced at \$35.

A **battery-operated strobe flashlight**, an improved version of the Model "S" stop-motion flashlight, has been announced by Gryphon Corp., 101 E. Santa Anita Ave., Burbank, Calif. 91502. The new flashlight is 6½ in. long, 3 in. wide and 2 in. deep and weighs less than 2 lb. It is powered by a 9-V transistor radio battery. The light intensity is low in the red-orange range so that the instrument can be used in photo processing areas and other subdued lighting conditions. The strobe action is stable and covers a range from 100 to 5,000 r/min. It is priced at \$100.

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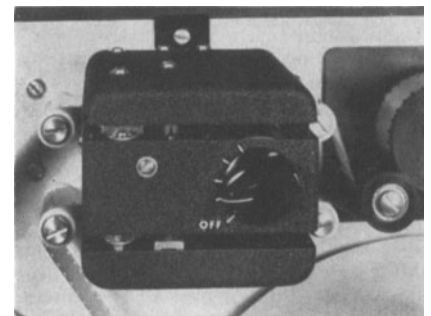
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The Black Box, an accessory to provide contrast control for processing Kalvar vesicular film as well as providing film cleaning, has been announced by Metro/Kalvar Inc., 745 Post Road, Darien, Conn. 06820. The Kalvar film is composed of a tough Saran plastic emulsion coated on a base of high-strength, dimensionally stable polyester. A latent photographic image is formed on the film by exposure to ultraviolet light. Heat application permanently develops the image. Both the negative and raw stock are threaded through the black box where static electricity is eliminated by polonium strips and dust particles are dislodged by fine goat hair brushes and removed by vacuum air suction. The Black Box is also used to provide contrast control through the application of pre-exposure to the raw stock. The accessory is available as original equipment or for simplified retrofit installation.