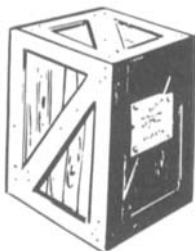
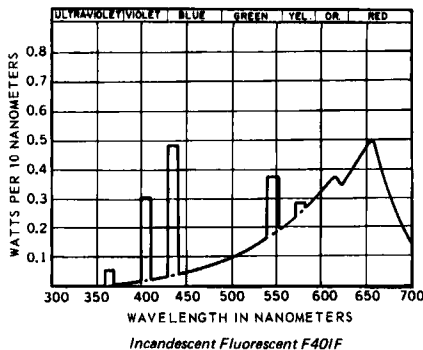


new products (and developments)



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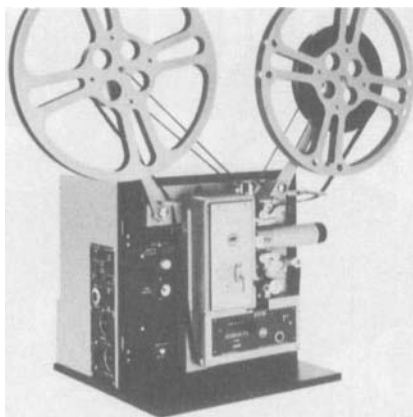


An installation of incandescent-fluorescent lamps in the State House News Conference Room, Columbus, Ohio, permits TV reporters to film press conferences in color without the need for corrective filters. These incandescent-fluorescent lamps are produced by GTE Sylvania Inc., a subsidiary of General Telephone & Electronics Corp. They provide a color balance adequate for filterless motion-picture photography on Kodak Ektrachrome EF film, type 7242 or 5242, which is a tungsten-light material.

The incandescent-fluorescent lamp was originally developed to match incandescent room light and was intended for use in sites such as clothing stores so that fabrics purchased appear the same shade in the store as they will have in the home. This lamp is essentially a fluorescent lamp, made with a totally new phosphor which filters out much of the ultraviolet, normally given off by fluorescent lamps. 85% less ultraviolet is generated compared with a standard cool white fluorescent lamp. Efficiency is 43 lumens per watt. The special phosphor plus the filter action of the tube readily permit the mixing with commonly used incandescent light in motion-picture photography. The incandescent-fluorescent lamp may prove, in time, its value as a diffuse light source for fill-in or base light with a low heat generation level.

In the Ohio installation, mentioned above, 100 incandescent-fluorescent lamps, installed four to a fixture, flush-mounted, in a checkerboard pattern 9½ ft above the floor, provide the lighting levels and color balance necessary for TV filming on the 7242 stock with an exposure index of 125. In the stage area quartz-halogen tungsten lamps are used as additional modeling lights.

Prices for these incandescent-fluorescent lamps range from \$1.85 to \$5.55.



The Athena Model 1500H, a 16mm sound projector designed for film chain use in industrial, educational, closed-circuit and cable TV, has been announced by L-W Photo, Inc., 15454 Cabrito Rd., Van Nuys, CA 91406. Features include extended light-application time, rigidity for stable images in multiplexing and various control features. Control of all functions is possible both at the projector and from remote locations. When operated in the remote mode, the projector automatically remains in a standby condition (motor running, lamp off) between showings. Switching the projector to "show" brings picture and sound on together. An output plug and connector are provided for 24-V operation on remote locations. If film chatter occurs, a loop-former enables the operator to reform the loop entirely by remote control. The projector has a short pulldown time of 5.52 ms with a resultant light-application time of 2.76 ms. A five-bladed TV shutter provides 120 light interruptions per second. The projector accepts Schneider lenses of various focal lengths and lamps ranging from 250 to 1000 W. The solid-state audio system has a 600-Ω balanced output which enables direct feed into studio sound equipment and a monitor speaker mounted on the projector. The projector is priced at about \$2500.



The Kodak Supermatic 60 super-8 sound projector, a machine of horizontal, low-profile design, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The projector has a built-in

"pop-up" 6- by 8-in Ektalite projection screen for displaying color movies even in daylight conditions. A single lever control mechanism provides two forward projection speeds at 18 and 24 frames/s, stop-motion, instant review and automatic rewind of the film into the projection cartridge at the end of the film. When the "pop-up" screen is folded down, conventional projection on walls and screens is possible. Special safety mechanisms help prevent film damage. Other features include amplified power output of 5 W, built-in speaker and connections for external speakers or headphones. The Supermatic 60 is priced at \$460.

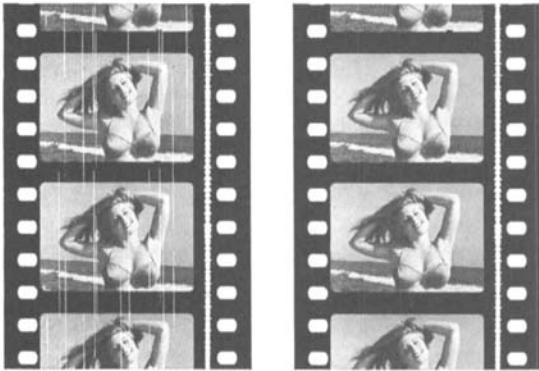
New accessories for the Bauer P6 Studio double-band 16mm sound projector have been announced by Allied Impex Corp., 168 Glen Cove Rd., Carle Pl., L.I., NY 11514. The accessories include a four-track magnetic head assembly, for multilingual recordings and reproductions, priced at \$1,150; a remote control unit, for operating forward or reverse with lamp "on," priced at \$298; a mechanical interlocking gear, for interlocking two Bauer P6 studio projectors, priced at \$112; and a five-digit frame counter priced at \$150.



A new line of super-8 magnetic sound projectors has been announced by Technicolor, Inc., 299 Kalmus Dr., Costa Mesa, CA 92627. Models 1400, 1300, 1200 and 1000 are available with either magnetic or optical tracks. Model 1300 shows a 7- by 9-in bright picture for daylight viewing. It can convert from rear-screen to front projection in a few seconds for audiences of one to hundreds. The projector weighs 29 lb and has a maximum power consumption of 300 W. It uses super-8 magnetic sound film in two cartridges of 220 ft (11 min) and 580 ft (29 min). The lens is the Super Technor 20mm f/1.1. The amplifier is solid state with 7-W output. Model 1300 is priced at \$469.95. Model 1200, which has a special stop-motion feature, is priced at \$494.95.

The Instant Change TV Slide Projector, Model 4210, featuring an instant-transfer lap dissolve between slides, has been announced by Laird Telemedia Inc., 2125 South West Temple, Salt Lake City, UT 84115. The instant transfer is accomplished by means of a very rapid motion of a pair of first surface mirrors located between the film plane and a 7-in lens. As many as 160 glass-, metal- or paper-mounted slides may

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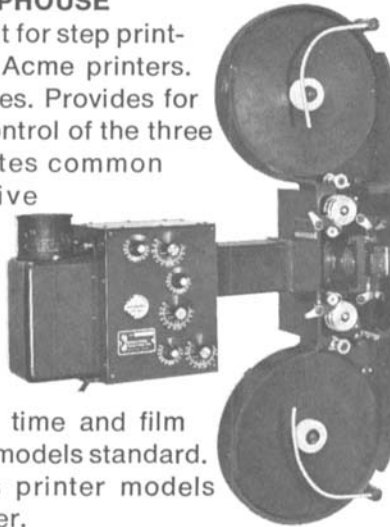


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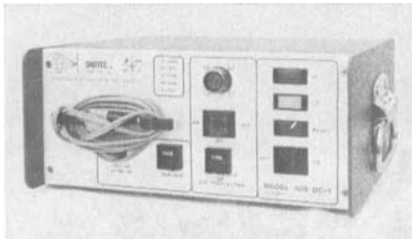
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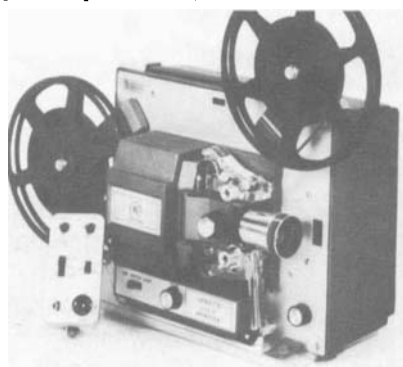
Power capacity is 7.5 ampere hours, meaning that it will deliver 2 amperes for 3½ hours or give 35 9-amp 32-second high-speed camera runs. Unit, 5½ x 10¼ x 13 in., weighs 27 lbs., including protective cover, lists at \$360.

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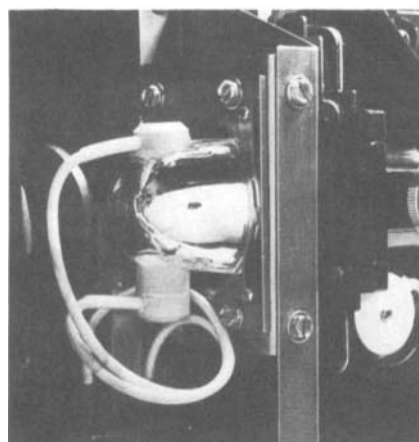
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be sequenced alternately from two carousel-type drums without need for reloading. The use of quartz halogen lamps and the absence of beam-splitting prisms makes possible color TV applications. The projector is priced at \$1,195.



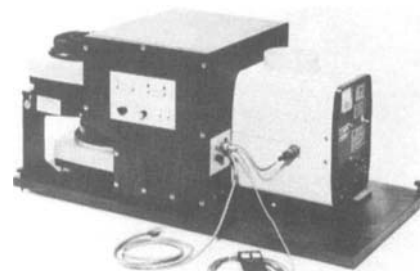
A frame-by-frame motion-analyzer projector for super-8 film has been announced by Lafayette Instrument Co., P.O. Box 1279, Lafayette, IN 47902. The analyzer features stop-motion, frame-by-frame flicker-free advance, instant start and stop, forward and reverse, automatic frame rates from 1 frame/s to 6 frames/s and remote control of all operations. The unit also has automatic threading, solid-state plug-in circuitry and quiet framing action. The price is \$560.



The Marc 300-16A conversion module for the Kodak M95 and M100A 8mm/super-8 projectors has been announced by Kelmar Systems, Inc., 169 E. 2 St., Huntington Sta., New York, NY 11746. The high lumen output of the light source (quartz light — GE short-arc style) extends the capability of the super-8 system to the point where 10-ft images are consistently obtained. The system (shown on a Kodak M100A projector) is cooled with a supplementary forced air flow. It is supplied as a retro-fit kit for factory installation on an existing projector (or for installation by the purchaser if desired) or as a complete factory-installed operation including the appropriate projector.

The Varotal 30, a television lens that combines an 18-in minimum object distance with a pronounced ability to transmit light and maintain a 10:1 zoom ratio, has been announced by Rank Precision Industries, Inc., 260 North Rt. 303, West Nyack, NY 10994. It provides a 56° field of view and instant range change can be accomplished,

plus a quick interchange of mechanical and servo controls. The lens is available in RCA, Philips and Fernseh camera mounts. It has the same response in all three channels. The lens uses a three-moving member zoom system instead of the conventional two. The servo system is a new design with three plug-in modules for zoom, focus and iris and new demand units for both zoom and focus. Plug-in zoom and focus drives are interchangeable. Each module has two plug-in dc amplifier boards which hold the temperature-stabilized amplifiers. The amplifiers are current-limited and are completely protected against overload. The iris module has the same design concepts as the other two but it is smaller and has only one amplifier board. The Varotal 30 is priced at about \$13,000, depending on accessories and quantity.

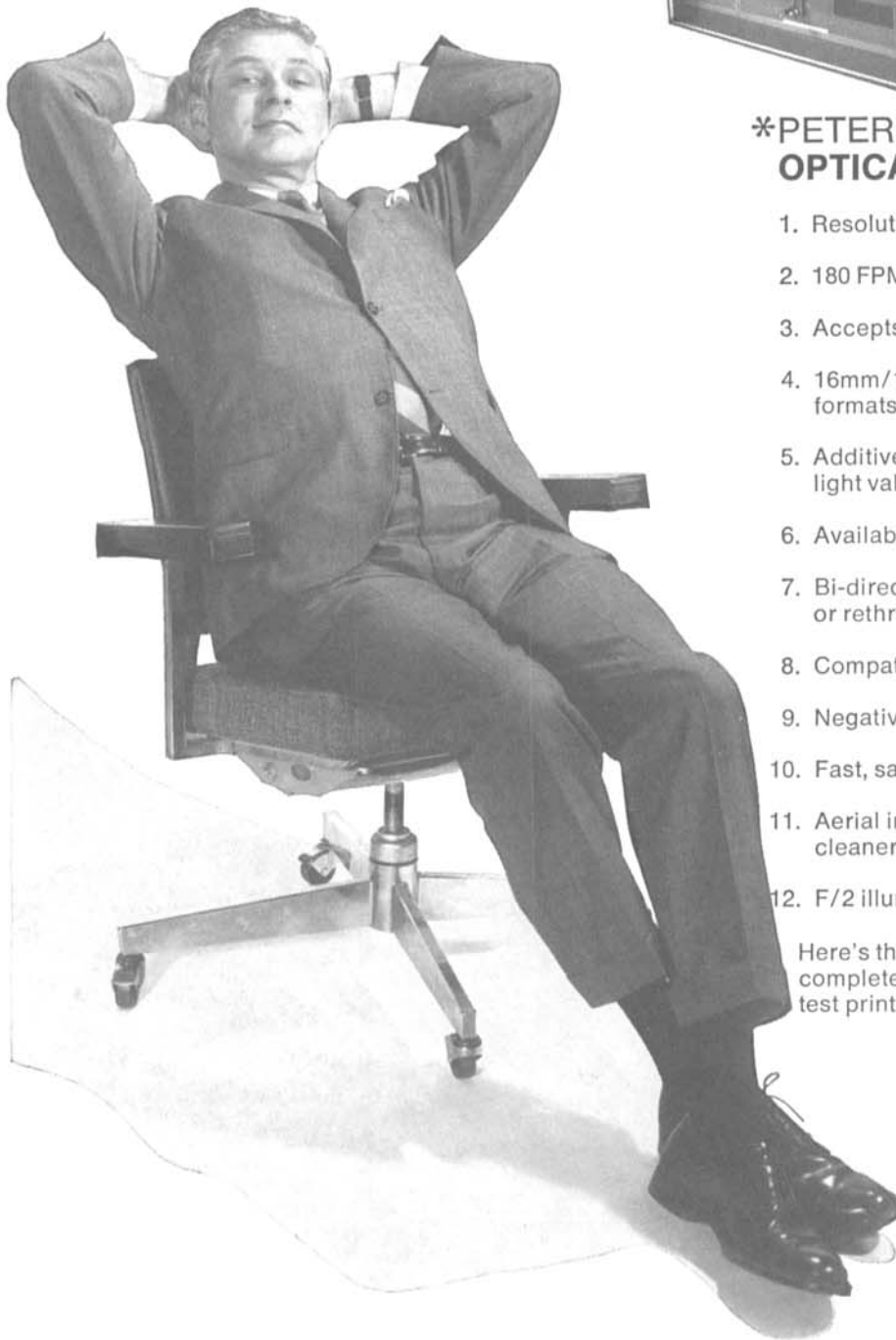
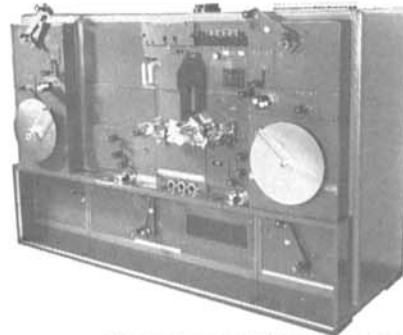


The ORC fade/dissolve slide projection system, designed for smooth overlapping and fading from one slide presentation to another, has been announced by Optical Radiation Corp., 2626 S. Peck Rd., Monrovia, CA 91016. The system consists of two modified 35mm Kodak Ektagraphic slide projectors, an optical fade/dissolve mechanism and a xenon lamphouse providing up to 5,500 lm output. The system can be operated forward or reverse from its control panel or remotely from a handheld remote control unit. It can also be automatically operated from a built-in timer to allow unattended slide changes at an adjustable interval from one to 20 seconds. The system is available with the ORC Model 1000 lamphouse or the Model 1600, of higher intensity. The system is used in large auditoriums or theaters. It is priced at \$3,475.

A line of television optical multiplexers has been announced by Laird Telemedia Inc., 2125 South West Temple, Salt Lake City, UT 84115. All models of the series are designed for color and feature a rapid "on air" transfer between projection sources. Various configurations of movable first-surface mirrors offers a choice between three and four inputs for both small and large image systems. An electric motor drive coupled to each independently guided mirror is reported to produce a transfer time in the order of 50 ms. All mirrors are moved only in a straight, vertical plane to prevent undesirable image displacement or defocusing during the shift. A concept of interlocking pedestals allows the accommodation of a wide variety of projectors and cameras without prohibiting the use of free-standing equipment. Push button control for both local and remote control of the multiplexers is included. The price range is \$1,255 to \$2,600, including local control.

A new line of video-audio routing switchers which eliminate patch cable has been announced by Marco Video Systems, Inc.,

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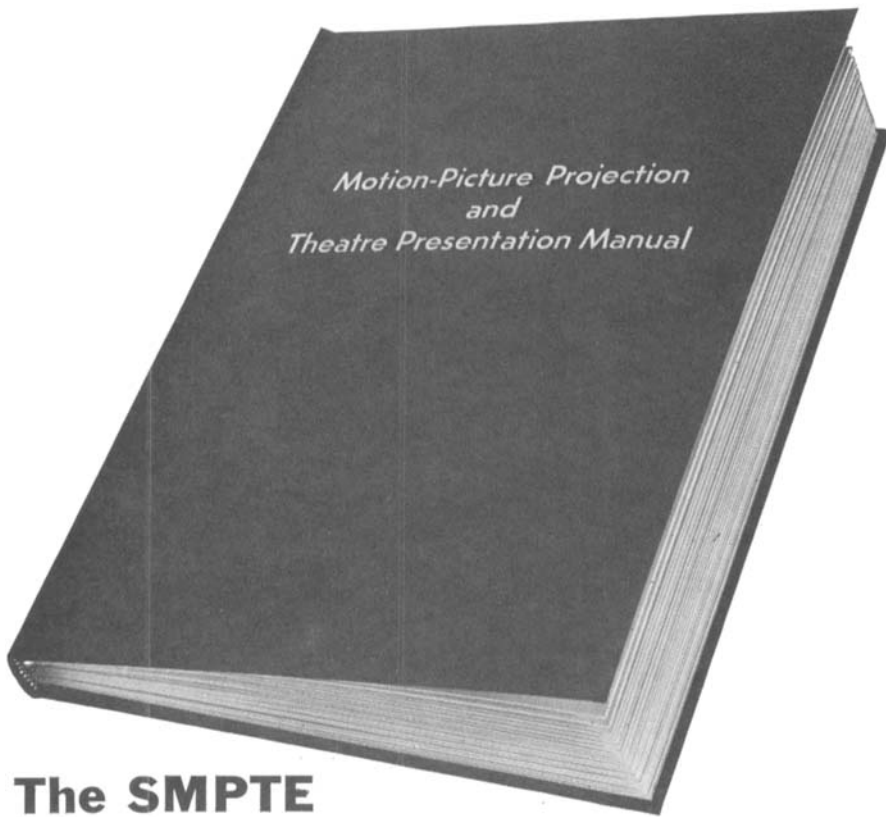
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The SMPTE Motion-Picture Projection and Theatre Presentation Manual

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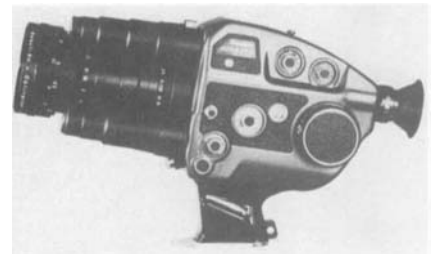
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**Society of Motion Picture
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6114 N. 20 St., Philadelphia, PA 19138. The system, which includes all silicon transistors meets EIA (RS-170) standards. All inputs are completely isolated from switching transients and all amplifiers have solid-state feedback stabilization. Transmission of NTSC color signal is reported to be free of discernible distortion. The routing switcher provides audio-video selection of any of 12 inputs to each output. The number of outputs can vary from two to infinity. The number of outputs can be expanded as operational output requirements increase. High-density printed circuit construction techniques result in minimum space requirements. A 12 x 40 system requires 42 in of rack space. Prices range from \$920 for a 12 x 2 system (3½ in panel height) to \$35,975 for a 12 x 200 system (203 in panel height).

A new time-base corrector accessory for the Ampex VPR-7900 closed-circuit video-tape recorder, a professional teleproduction color recorder designed for closed-circuit television production, editing and duplication, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Designated Model TBC-790, the accessory consists of a time-base corrector and a processing amplifier which corrects errors introduced into a tape recording by the electromechanical portions of the recorder. It stabilizes the horizontal picture into which jitter has been introduced. It reduces the output jitter to ± 30 ns in monochrome and ± 2.5 ns in color from the ± 250 ns output stability of a VPR-7900 without the TBC-790. The device can contain a direct NTSC color module which corrects color phase errors to assure users of accurate color playback. Various options include a color dropout compensator which senses dropouts and replaces them with video and chroma information from the previous line. Both saturation and hue are correctly matched to the line in which the dropouts occur. The TBC-790 can also be obtained with an automatic velocity compensator which eliminates line-by-line color errors caused by minute mechanical disturbances occurring within each line. It results in improved color playback when tapes recorded on one machine are played back on other machines. Prices begin at about \$9,500.



The Beaulieu 4008ZM2 super-8 camera has been announced by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403. The camera incorporates a new lens, the super-wide-angle 6-66mm Beaulieu-Optivaron f/1.8 zoom lens with 11:1 zoom ratio. The new lens provides almost twice as much area when filming at its maximum 6mm wide-angle focal length as when filming at an 8mm focal length. Other features include lap dissolves and superimpositions controllable up to 100 frames duration; macro motorized focusing



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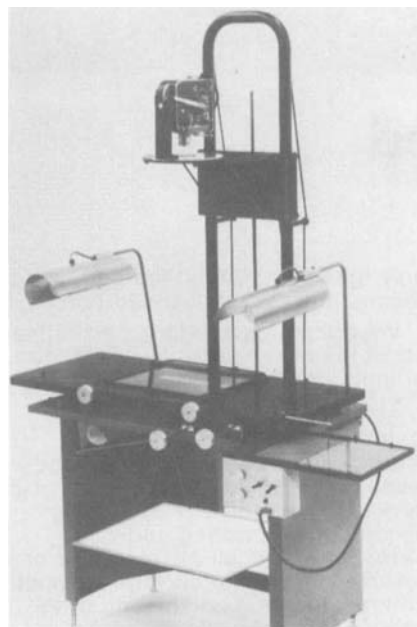
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10016 - Phone: 661-2355

to 1 mm from the front element of the lens; variable motorized zoom from 2 through 12 s, with manual override; sync sound capability and tape recorder automatic stop/start control. The new camera is priced at \$999.

Five Matthey equalized video delays have been packaged in small metal boxes (4½ by 2½ by 1¼ in) with BNC connectors to facilitate installation, it was announced by Television Equipment Associates, P.O. Box 1391, Bayville, L.I., NY 11709. First of the series is a switchable unit which provides an infinitely variable delay from 10 to 165 ns with a ± 4 ns trim. Applications include temporary and permanent installations plus the capability to determine the amount of delay required for a particular run. The switchable unit can be cascaded with fixed delay boxes providing 50, 200, 500 and 1,000 ns for a maximum delay of 4000 ns. The 200-, 500- and 1,000-ns units have insertion losses padded out to 3 dB for use with standard amplifiers. The same range of video delays is available for PC-board mounting. The price range is \$22 for 5 to 155 ns to \$150 for 1 μs.

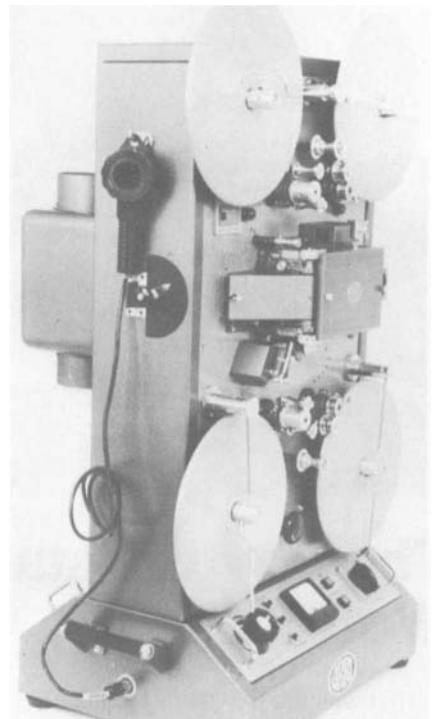
A new compact modular portable dimmer pack system has been announced by Berkey Colortran, 1015 Chestnut St., Burbank, CA 91502. The pack weighs 60 lb and contains six 2400-W fully filtered solid-state dimmer modules. The two-scene control pack unit can remotely operate the dimmers and can be expanded up to 120 dimmers. A master pack provides proportional cross-fading, pile-on mastering of the presets, as well as an independent master and grand master. The dimmer pack systems are available for use at 120 or 240 V. The dimmer pack is priced at \$950 to \$980. The control pack is priced at \$250 and the master pack at \$220.



A vertical camera stand embodying the same broad range of capabilities as the Polytechnical Camera Stand (*Journal*, p. 392, Apr. 1970) has been announced by Merv's Animation Aids, 17040 Otsego, Encino, CA 91316. It is intended to provide a stable, functional platform for users of cameras designed for single framing, to ac-

commodate professional art sizes with either Acme or Oxberry registration standards and to utilize from the industry standard 12-in animation field on down to the smallest area an extended lens can focus upon, such as 35mm slides and 16mm frames, with provision for the 16mm field by repositioning pegs. The stand is constructed of easily assembled components. A stable base of twin trylons supports the preassembled NSEW movable compound table which is three fields wide. Specially cut decimal gears move the compound and peg bars one inch (or one field) per knob rotation. Positioning and tracking are by pantograph, by visual scales or by calibrated knobs.

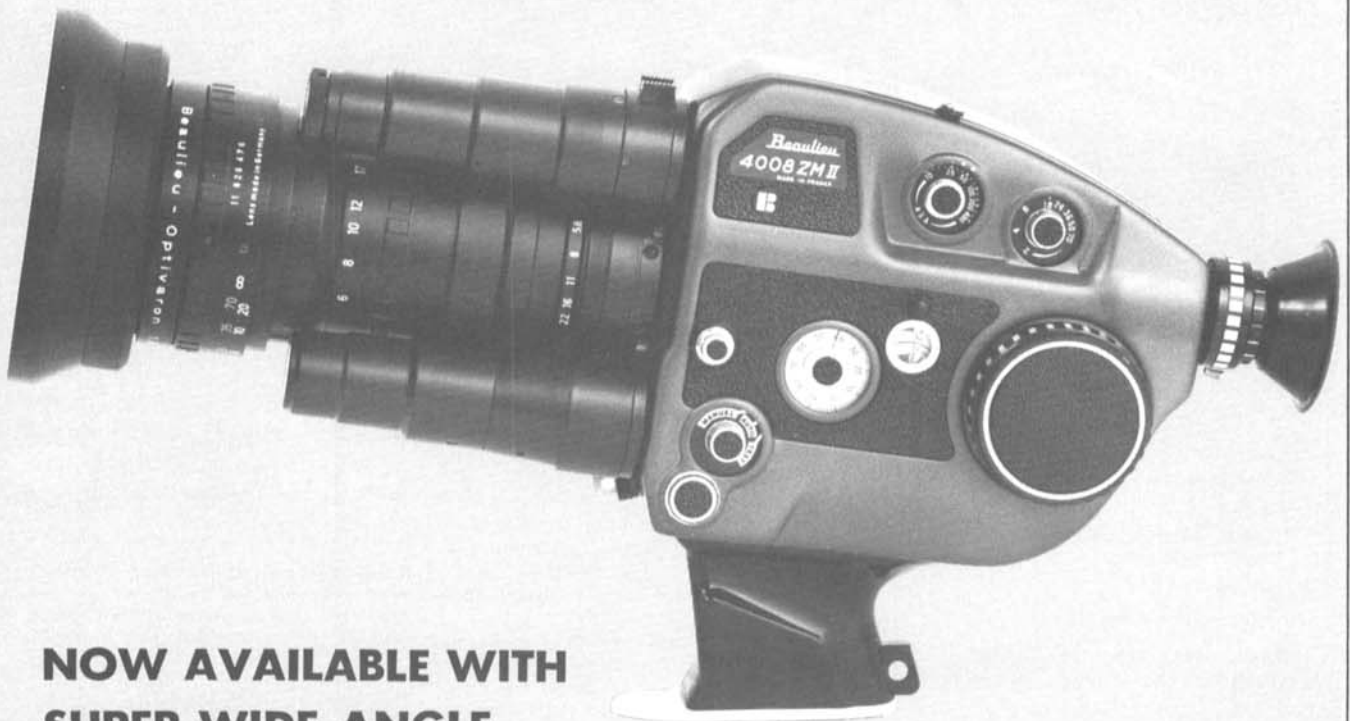
Cameras are mounted by the tripod socket to a vertical bar. Two holes position the bar in pairs of holes which prealign each camera so as to be rotatable about its lens axis with provision for adjustment to the perpendicular through the viewer. Price of the new vertical camera stand has not yet been fixed, but it will be under \$800 and more than \$500.



The Arri Miniprint, a portable, table-top step printer for optical reduction printing of 35mm to 16mm and 35mm and 16mm contact printing, has been announced by Arriflex Co. of America, 25-20 Brooklyn-Queens Expy West, Woodside, NY 11377. It is primarily intended for the reproduction of black-and-white film whereby the printing step can serve not only for the duplication of film but also as a step to introduce higher contrast for better evaluation of the photographed subject. In a limited way it can be used for color printing since color correction filters can be inserted via a filter slot in the printing light channel. The printer has a cam-driven film transport assembly, and a standstill mechanism allows unlimited repeat printing of any single 35mm frame. The Miniprint is constructed in a modular fashion with practically all mechanical parts mounted on the main mechanism platen. It accepts up to

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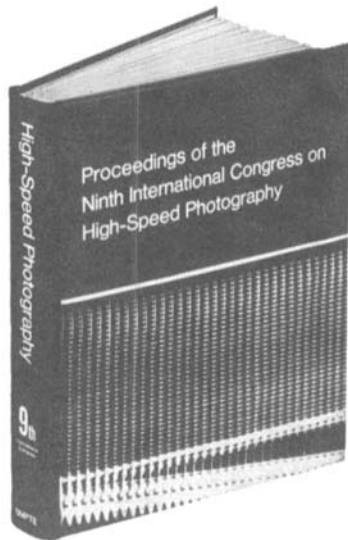
THE BEAULIEU 4008ZM2!
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April 1972 Journal of the SMPTE Volume 81

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New advances in high-speed photography



The most recent advances in the technology of photo-instrumentation have been made available to the scientific community in the *Proceedings of the Ninth International Congress on High-Speed Photography*.

The volume includes the 107 papers presented at the Congress in Denver, Colorado on 2-7 August 1970, together with all pertinent discussion of the papers during the technical sessions. Subject areas covered in the volume are

holography and image-dissection cameras, lasers, rotating mirrors and streak cameras, light sources and x-rays, and high-speed photographic applications.

In addition, a Current Bibliography on High-Speed Photography, prepared by the Research staff of Eastman Kodak Company especially for the *Proceedings*, will prove valuable as a research tool. A report on the Congress, a list of delegates, and an index of authors and discussers complete the volume.

The book comprises 605 pages, 8½ x 11 inches, in hardbound edition. The price is \$40.00 each, with discounts to SMPTE members, libraries, and booksellers: 1 to 4 copies 20%; 5 to 49 copies 25%; 50 or more 33⅓%.

Society of Motion Picture and Television Engineers
9 EAST 41 ST., N.Y., N.Y. 10017

1,200 ft of film with an output of 650 ft of 16mm film per hour (8 frames/s). Prices begin at \$7,400.



The Showchron Expandable Editing System developed by Showchron America, North Hollywood, Calif., has been announced by A.V.E. Corp., 250 W. 54 St., New York, NY 10019. The machine is an editing table of modular design permitting the editor to edit both picture and sound and synchronize dialogue, music and effects simultaneously. The soundtracks advance and retard in relation to the picture. The controls on the unit provide instantaneous stop-start or forward-reverse of both picture and sound. Other features include a digital readout counter for minutes and seconds, feet and frames, and advance/retard. Each of these three readings has a reset button. Modules on the basic four-plate machine can be assembled to provide one picture and three soundtracks or three pictures and one soundtrack with comparable arrangements possible on the expanded system. The machine is for 16mm film, but production of a 35mm machine is planned for October. Price of the basic four-plate 16mm model is \$5,200. It can be expanded to an eight-plate machine.

The Quik Splice 70mm system has been announced by Hudson Photographic Industries, Inc., 2 S. Buckhout St., Irvington-on-Hudson, NY 10533. The new Quik Splice consists of a 70mm splicing unit which has finely-honed, self-sharpening, ¼-in-thick stainless-steel cutting plates. Precut, sprocketed Mylar tapes in the same design used with other Quik Splice systems are matched to the splicer. Each tape is transparent and has a pressure-sensitive adhesive backing to prevent oozing and brittleness. A release paper protects the adhesive backing and permits accurate placement of the tape splice over the film being repaired. The Quik Splice 70mm system is priced at \$190.

The Hahnel SD 8, dual 8 splicer, a cordless, battery-powered motorized splicer for 8mm and super-8 films has been announced by Allied Impex Corp., 168 Glen Cove Rd., Carle Pl., L.I., NY 11514. The splicer has a high-speed (6,000-r/min) sapphire-coated, wedge-shaped scraping wheel to achieve a wedge-type, jump-free splice. Following the scraping procedure, with the pressure bar open to its widest point, the two scraped film ends can be cemented. A miniature bulb is positioned at the point at which the film ends meet to aid in the splicing, and the bulb's heat also speeds the drying of the cement. After the cement is applied, the pressure bar folds to its closed position. The splicer can be used for either sound or silent film. It is priced (without batteries) at \$39.95.

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220 V 3-phase selsyn distributor and footage counter, reversible. Special price \$3,600. Portable fishpole booms and looping boxes, 35mm or 16mm. Att: Don Walton, Studio Electronics Co., 5415 N. Clark St., Chicago, Ill. 60640. Tel. 312/561-0022.



These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Available

Saudi Arabia. Four radio and TV engineering specialists needed with experience in shortwave and medium wave transmitters; microwave and television transmission; TV studio equipment and systems design; AM-FM-TV antennas, propagation, frequency allocations. Desire MS Degree and 10-15 years experience. Salaries \$25,000 to \$35,000 depending on qualifications. Also living allowance and up to 45 days annual leave with air travel cost included. Two-year contract direct with Kingdom of Saudi Arabia. Possible two-year renewals. Send complete résumé to: Saudi Arabian Engineers, P.O. Box 68, International Airport, San Francisco, CA 94128.

Engineer — Photographic Products. Excellent opportunity in fast growing company in the field of photographic darkroom products. 5 to 10 years direct experience in the design, layout and testing of enlargers, dryers, etc. Inventive, creative boardman. Salary open and commensurate with experience and ability. Send résumé and salary requirement to: George L. Howitt, Charles Beseler Co., 219 So. 18th St., East Orange, NJ 07018.

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