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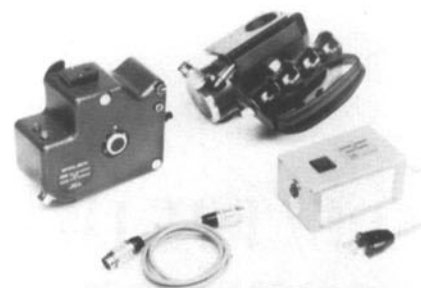


A "hard front" for the Arri 35mm camera which incorporates a BNC mount has been announced by Cinema Products, 2044 Cotner Ave., Los Angeles, CA 90025. The new "hard front" permits the Arri 35 to accept reflexed BNC mount lenses, thus eliminating duplication of lenses and assuring that all scenes will be consistently intercut since they would all be filmed with the same set of lenses. The device has a lightweight magnesium front casting, secured with four mounting screws, a lens bore made of stainless steel for positional accuracy and a BNC-type locking ring to secure the lenses. Price, including installation, is \$750.



The Bolex 250, a super-8 camera equipped with an 8-40mm *f*/1.8 zoom lens, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The camera accepts ASA 160 film. It has a bright reflex viewfinder with coincident image range-finder to permit easy focusing. The camera runs at 18 and 24 frames/s and features continuous running and single-frame film-

ing with a cable release. The price is \$229.50.



The Bolex ESM motor, a cordless electronically stabilized variable speed motor that can be attached to all spring-driven H-16 cameras with a one-frame shaft, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The motor has provision for 60 Hz 24 frames/s sync pulse sound and quartz synchronization. It allows filming speeds from 10 to 50 frames/s. The motor does not need a separate power pack; a 12-V rechargeable nickel cadmium battery is built into the grip. The ESM motor has a built-in relay for automatic slating of film and sync sound tape. The relay automatically connects the clapper lamp, the sync pulse and the necessary impulse to feed the beep generator of the tape recorder. The motor weighs 2 lb, works at temperatures from 14°F to 120°F and can be used with either 100-ft or 400-ft magazines. The ESM motor with the 100-ft drive is priced at \$890. With the 400-ft drive the price is \$1,216.70.

The Eumig Mini 3 Zoom Reflex, an automatic super-8 camera 5½ in long, 3 in high and 1½ in wide, has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. Features include automatic film speed setting from 25 to 160 ASA permitting low-light-level filming with the Kodak Super-8 Ektachrome 160 film and continuous indication of film transport operation and automatic lens aperture setting in the viewfinder window. The camera uses the Eumig Servofocus system which automatically adjusts the lens distance setting for maximum depth of field at all zoom settings. The price of \$99.95 includes a lens cap, eye piece and wrist strap.



The U-47 fet (field effects transistor) has been added to the line of Neumann Phan-

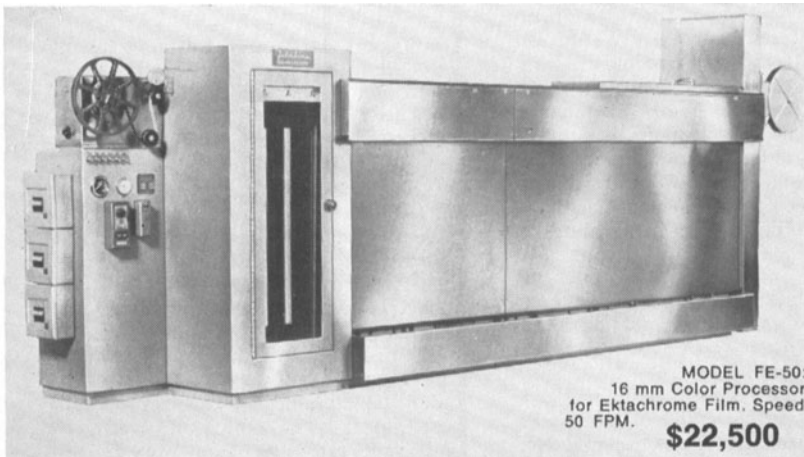
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tom Powered Microphones, it was announced by Gotham Audio Corp., 2 W. 46 St., New York, NY 10036. It is a cardioid condenser microphone, a re-engineering of the original U-47 tube model. Designed for studio and concert hall use, it uses operational amplifiers, its capsule is specially isolated to prevent mechanical disturbances. Its dynamic range is 136 dB, an increase of 50 dB over the previous model. The microphone has -10 dB overload protection switch between the capsule and its internal amplifier, a -6 dB switchable output pad to prevent console preamplifier overload on high levels and a low frequency proximity compensation switch. The price is \$390.

The J-1600 16-track studio mastering tape recorder has been announced by Leevers-Rich Equipment Ltd., 319 Trinity Rd., Wandsworth, London SW 18, England. The machine is based on the Leevers-Rich 8-track recorder (*Journal*, p. 898, Sept. 1970) and uses many interchangeable parts. The console may be supplied as a full 2-in 16-track machine or as a 1-in 8-track machine, readily extendable to 16-track. Price of the 16-track machine is £8,900, including VU metering and sync replay.

The Compumix, an all-electronic, computerized and automated audio mixing system, has been announced by Quad/Eight Electronics, 119 Vose St., North Hollywood, CA 91605. It is a line level system designed to be added to an existing console or mixer for fully automated mix-down. In operation, as the positions of faders and/or switches are changed to obtain a mix-down, a real-time recording is made of those functions together with various pulses which facilitate sync and timing. The recording can be done on any ordinary multitrack audio recorder. The recorder information is then reconverted to control voltages and will automatically re-perform all of the level, mixing and switching functions previously performed. The system permits correction of errors in level or switching by updating any individual or any particular set of channels without affecting the rest of the mix. The previous mix is retained throughout and nothing is taken from or added to the audio except the correction desired. Price of the system is about \$18,000.

TASCAM Model 10 Mixing Console has been announced by TASCAM Corp., 5440 McConnell Ave., Los Angeles, CA 90066. The unit has eight input modules, four sub-master modules, a master module with a straight-line fader and four 4-in VU meters with LED peak indicators. Each of the eight input modules provides a three-position input pad, a feedback-type microphone attenuator, a line attenuator, a three-position input selector, high- and low-pass filters, high- mid- and low-band equalizers with frequency selection, echo-send and receive circuitry including pre- and post-selection, channel and pan assignment pushbuttons, a pan pot and a straight-line fader. Each of the four sub-master modules provides a straight-line fader, source/tape monitor control and separate monitor level controls. The console is priced at \$1,890.

The Kay Model 255E, a solid-state electronic switch for testing in both active and passive devices, is available in both 75- Ω and 50- Ω impedances, it was announced by Kay Elemetrics Corp., 23 Maple Ave., Pine Brook, NJ 07058. The unit may be used for comparative tests of frequency responses in the 5 to 1000 MHz range. Features include dual channel input and output modules which can be brought from the main unit directly to the point under test. Channels may be selected individually or mixed at the output for combined dual-trace measurements. The instrument may be switched at external rates of from 0.2 to 200 Hz; an internal sync feature is also provided for rates between 5 and 100 Hz. It is available with BNC, TNC or F connectors. Price with 50- Ω BNC connector or with 75- Ω F connector is \$260.

The Type LH4 Analog Filter, a tunable active filter, has been announced by Spectrum Instruments, Inc., 35 Grand St., New Rochelle, NY 10801. The filter is constructed on a standard 19-in rack panel 3½ in high. It offers switch selection of low pass, high pass, band pass or band reject functions. The filtering characteristic or mode is also switch-selectable. The Butterworth and simple RC modes are available. A third operating mode, OT (optimum transient) has been provided. Other features include direct-coupling (response to dc) in low pass and band reject operation, a stop band slope of 24 dB/octave and a signal handling capacity of 20 V peak-to-peak. The option of floating or chassis connection for signal ground is provided by a panel-mounted toggle switch. The Type LH4 is priced at \$445. The price includes self-contained regulated power supply for line operation and cutoff tuning range of 20 to 200,000 c/s.

A color video programmer, Model 1140, has been announced by Viscount Video Systems Ltd., Marine Industrial Centre, 105 E. 69th Ave., Vancouver 15, B.C., Canada. The unit has six inputs for synchronous composite or noncomposite video sources, two inputs for nonsynchronous composite signals and one spare input to the mix and effects buses. There are four buses — A, B, to the Mix and Effects generator with full color delay compensation for re-entry, one preview bus to a monitor output and one program bus with two program outputs. Six wipe patterns are available — horizontal, vertical and the four corner wipes. The control panel is 3 in deep and occupies 10.5 in of rack space. The electronics module is the same height but is 7 in deep. Vertical interval switching on all buses effects mode and pattern selection allows on air switching between video sources. Illuminated pushbuttons display the selection. Price is about \$4,950.

CVI Model 630 Video Detector, designed especially for industrial control processes, has been announced by Colorado Video, Inc., P.O. Box 928, Boulder, CO 80302. The unit accepts a composite video input signal and processes it in such a manner as to trigger automatic warning circuits when specific information deviations exceed preset limits. It can operate in several modes, including peak white detection, peak black

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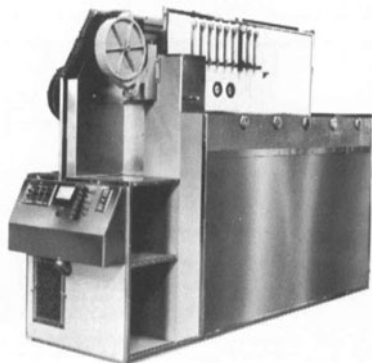
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detection and in a differentiated mode to provide maximum sensitivity to small, rapid changes in contrast, such as might be caused by spots or hairline cracks. The Detector incorporates "superblanking" to limit the active detection area and also provides a special video monitoring output showing both the superblanking area and quantized video signals on the screen of a standard TV monitor. Model 630 is priced at \$1,500.

The Colortran Senior Stand, designed to support Seniors, Teners, lightweight arcs and the Maxi-Brute, has been announced by Berkey Colortran, Inc., 1015 Chestnut St., Burbank, CA 91502. The stand extends to a height of 10 ft 8 in and collapses to 54 1/4 in. It has special bracing for stability even at the fullest extension. The stand weighs 24 1/2 lb and has a built-in carry ring. The price is \$135. Also available is the Low Stand, which is similar in construction to the Senior Stand. The Low Stand extends to 45 in, collapses to 27 1/2 in and weighs 12 lb. The price is \$95.

A new **Colorizer**, Model 340, designed to add background color to monochrome titles or stationary monochrome scenes, has been announced by Dynasciences Corp., Video Products, Township Line Rd., Blue Bell, PA 19422. The unit has sync-adding capability for noncomposite video inputs. The burst phase and tint are adjustable through 360°. It is priced at \$650.



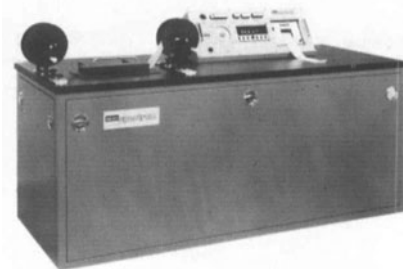
Cartrivision, a home color cartridge television system, is now available after several years of research and development. Reported in the *Journal* in the September 1970 issue (p. 894) as Avco CTV Cartrivision, the basic Cartrivision concept has undergone substantial changes. It was announced by Cartridge Television Inc., 460 Park Ave., New York, NY 10022. The Cartrivision cartridge-television unit allows taping and playback of television programs off the air; the taping of home movies with sound using a black-and-

white video camera and the playing of pre-recorded tapes from a library of motion pictures and other programs. The console also operates independently as a color television set. A further development has been the use of the equipment as a closed-circuit TV security monitor, permitting the user to operate the TV camera while employing the Cartrivision set as the monitor without turning on the recording scanner. For example, the camera and microphone can be placed in a remote location such as the baby's room or next to the entrance door, or any other observation spot.

The principal Cartrivision component is a solid-state combination receiver-recorder-playback unit, consisting of a Cartrivision tape deck and a full-size color TV receiver, built into a single, self-contained unit. The Cartrivision set has been designed to play prerecorded tape cartridges in full color with picture presentation on the TV receiver, as well as to record television programs off the air on 1/2-in iron-oxide videotape with instant playback and no processing. The system is also designed to make and play cartridges of home movies, including sound, on blank videotape cartridges with a special camera featuring Instant Replay. The combination consoles can also receive standard television broadcasts. In addition the system can be used to record, automatically, television programs off the air while unattended, shutting off the system when the cartridge comes to an end. The Cartrivision cartridge has a special Minutemeter which tells the user how much longer a cartridge has to go.

New features include Cartricolor, which offers a bandwidth of 2.5 MHz, providing a resolution exceeding 250 lines, and the Cartriscan skip-field recording technique. With this technique program material at 60 fields/s is recorded at every third field and subsequently expanded three times to reconstruct the 60 fields/s image. This method makes it possible to use less tape and achieve a playing time of 114 min on a single cartridge.

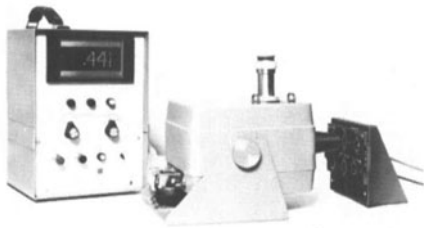
Prerecorded cartridges of full-length feature motion-pictures are available from a rental library. A list of available cartridges can be obtained from the Cartrivision headquarters in New York.



The Mead Spectrum Spectrosensitometer, a 1-B type spectrosensitometer, has been announced by Data Corp., Systems Div., Research Park Dr., Dayton, OH 45432. The instrument has been designed to measure the spectral sensitivity of photographic materials. It consists of a specially designed high-intensity single grating spectrograph covering a wavelength re-

gion from 350 nm to 1000 nm. Linear dispersion of the spectrograph is about 4 nm/mm. Bandwidth for the standard entrance slit is 10 nm. Optional bandwidth to 2 nm is available with an interchangeable slit. The instrument is self-calibrating via a built-in radiometer designed to scan the spectrum at a plane parfocal to the exposure plane and print out the data in 10-nm increments. Other features include an identification block, film rewinds, filter wheel and tungsten-halogen source. A rotating sector wheel shutter provides exposure times from 1 s to 0.01 s. Timed exposures from 2 s to 120 s are achieved with a timed capping shutter. The instrument is priced at \$94,934.

The Star System, a new type 1-B sensitizer designed for quality control, research and product evaluation applications, has been announced by Data Corp., Research Park Dr., Dayton, OH 45432. The instrument has a rotating half drum shutter, flat horizontal exposure plane, mirrorless optical path, high-intensity 1000-W tungsten-halogen lamp and a rotating filter wheel. An optional step and repeat system is available. Shutter speeds from 0.5 s to 0.001 s are achieved with the drum in 0.3 Log E increments. Timed exposures from 1 s to 100 s are possible with an external timer. A data block simultaneously exposes the shutter speed, serialized identification number and filter wheel position. A user's manual is supplied which contains both radiometric and photometric calibration data over a wavelength region from 300 to 1000 nm for eight filter lamp combinations. The basic instrument is priced at \$25,500.



The Trirad II, an improved version of the Trirad Automatic Tristimulus Radiometer used for automatic 20-s measurement and digital display of C.I.E. chromaticity coordinates (x and y values) and illuminance (Y) in lumens/ft² of light source in the 400- to 700-nm range, has been announced by the Color Systems Div. of Kollmorgen Corp., 67 Mechanic St., Attleboro, MA 02703. Trirad II features increased sensitivity at low energy levels, making it suitable for chromaticity evaluation of edge-lighted panel displays such as Aviation Blue-White sources as well CRT displays. A new Small Area View attachment and retroviewer is available for targeting and measuring areas with diameters as small as 0.200 in. Display of any dc light source voltage (0-20) is provided by a panel jack and the built-in display voltage meter. Also available is a Chromaticity Calibration Plug-In which permits precise calibration of Trirad II in selected areas of color space. Price of the basic unit is \$4,995.

Shown above is the measuring head equipped with the Chromaticity Calibration Plug-In and accessories for small area



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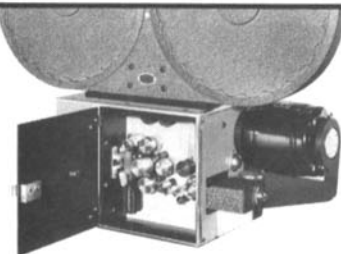
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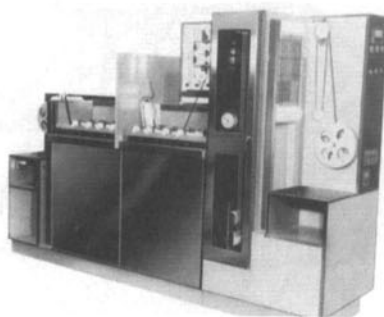
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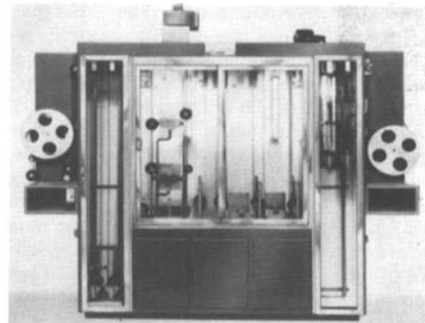


Three new automatic continuous processors for 110-size and other Kodacolor II films have been announced by Houston Photo Products, Inc., Yuma, AZ 85364. The machine utilizes a demand-type film transport system for low film tension. Wobble rollers are used to eliminate film scratches, breakage and abrasion. Film racks are removable to simplify maintenance. The developer solution is held to a tolerance of $\pm 0.25^\circ\text{F}$. Temperature for the fix is held to $\pm 1^\circ\text{F}$. Heat exchangers are provided in the recirculation lines. Accurate replenishment of solutions is provided by flowmeters. Film is dried by impingement of warm, filtered air. Model KII-16-15 processes 16mm or 110 film at 15 ft/min. Model KII-16/35-8 processes 16mm, 35mm, 110 or 126 film at 8 ft/min. Model KII-16/35-15 is a duplex machine handling 110 film and 35mm or 126 film simultaneously at 15 ft/min. The price range is from \$14,375 to \$22,750.

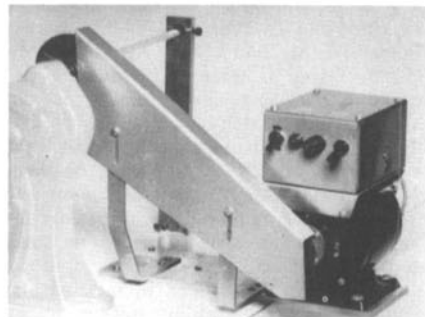


The Ultrasonic Film and Tape Cleaner, Model FT 1000, has been announced by Clean Air, Inc., 124 Hebron Ave., Glastonbury, CT 06033. It has been designed to clean, dry and eliminate static at speeds from 50 to 130 ft/min without harmful effect to film base, emulsion, sprocket holes, magnetic soundtracks or tapes. The cabinet is 80 in high, 45 in wide and 30 in deep. It contains a Westinghouse patented cylindrical ultrasonic cleaner which works in conjunction with and is a part of a boil sump with a 300-W strip heater wrapped around the cylinder and 700-W strip heat-

ers attached to the bottom of the boil sump. Purpose of the boil sump is to separate oil and waxes removed from the film from the solvent. The solvent is returned as a vapor condensed by means of chill coils and returned as clean solvent. Particulate matter is removed by a cartridge filter which is part of a recirculating system that takes dirty solvent from the bottom of the cleaning chamber and returns it as clean solvent to the top of the cleaning chamber. The evaporative dryer and solvent recovery unit consists of a recirculating blower, drying tunnel and cooling coils. The solvent used is Freon, which is non-flammable and nonirritating to skin. Price of the Model FT 1000 is \$15,995.



The Treise Cleaner/Waxer for 8/16mm or 16/35mm film has been announced by Treise Engineering, Inc., 1941 First St., San Fernando, CA 91340. It can be used for cleaning and lubricating film for use in cassettes, renovating old roll film or for protecting newly processed film. As the film moves through the machine, a nylon-velveteen-covered head moving in the opposite direction to the film flow, wipes and scrubs the film clean, first on the cell side and then on the emulsion side. From here, the film goes into two drying loops. Afterwards it is waxed on one side, then dried and waxed on the other side and dried again. The machine can handle any size reel up to 2400 ft. It operates at speeds up to 250 ft/min and provides total film capacity of 800 ft. About 45 s are available for load and take-up change time. The cleaning solution is recirculated and filtered. The waxing solution is recirculated and cooled. Cleaning and waxing heads are removable for cleaning and for replacement of nylon velveteen covers. The Cleaner/Waxer is priced at \$6,500.



The Filmkraft Rewind Power Attachment, designed to attach to any professional rewind, has been announced by Filmkraft Mfg. Co., Dept. V, 6850 Lexington Ave., Suite 217, Hollywood, CA 90038. The unit automatically winds up film fed to it from the Filmkraft Editor. An adapt-

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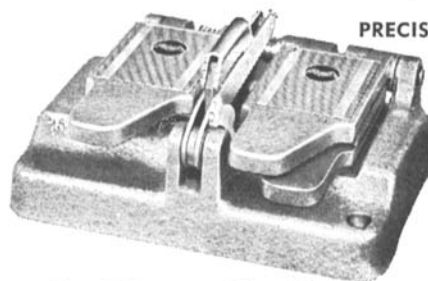
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or permits it to be used separately. When the switch is on there is a slight amount of torque to eliminate any slack in the film being fed onto the rewind. The amount of torque increases when the automatic winder is in operation. The attachment is free-wheeling when not in use and the rewind can be hand operated. The unit is priced at \$322.

The Antech Model 201/A camera, designed for densitometric applications, image enhancement work, data reduction and measurement of imagery detail, has been announced by Antech, Inc., 550 Newtown Rd., Littleton, MA 01460. When fitted with microscopic optics, the camera serves as a micro-densitometer sensor with a 10- μ m scanning aperture. With macro optics, on an adjustable bellows, it can view opaque or transparent material without requiring a lens change. The camera is intended for the search, detection and examination of subtle tone detail in imagery. It has a gray-scale perception exceeding that of the human eye. The camera is priced at \$3,200.

The Selecta-Frame 16mm flickerless motion-picture projector, featuring solid-state control and switching components for heavy-duty use, has been announced by Producers Service Corp., Photo-Instrumentation Div., 1200 Grand Central Ave., Glendale, CA 91201. The projector is ruggedly constructed and is used in both large and small groups which demand constant stop-action viewing. The machine uses 12 transistors and three integrated

circuit chips. It operates at controlled pulse rates of 0 to 12 frames/s. Cine operation at 16 to 24 frames/s is provided. Silent and sound models are available. Price range is from \$1,350 to \$2,700.

An improved motion-analyzer system for 16mm film has been announced by Lafayette Instrument Co., P.O. Box 1279, 52 By-Pass, Lafayette, IN 47902. The firm produces a number of 16mm analyzer systems for memo-motion, micro-motion, high-speed and other critical applications. The projectors have complete stop-motion which does not burn or blur the film. Other features include quiet frame-by-frame flickerless projection. A handheld remote control controls all operations including stop motion, forward, reverse, continuous run, instant stop and start and automatic framing. Prices range from \$760 to \$1,495.

The Selectroslide 900, a projector that shows 500 slides nonstop, has been announced by Spindler & Sauppé, Inc., 13034 Saticoy St., North Hollywood, CA 91605. The projector has trays that reverse for rear projection. It delivers a 3500-lm output with $f/2.5$ lenses of any focal length. A fast slide-advance speed greatly reduces the black interval between images. A patented flexible magazine permits easy interlocking of trays to form a closed loop of varying capacity up to 500 slides. Four 50-slide or two 100-slide trays wrap completely around the hub and lock to it. When more trays are added the slide-carrying loop thus formed rides over the

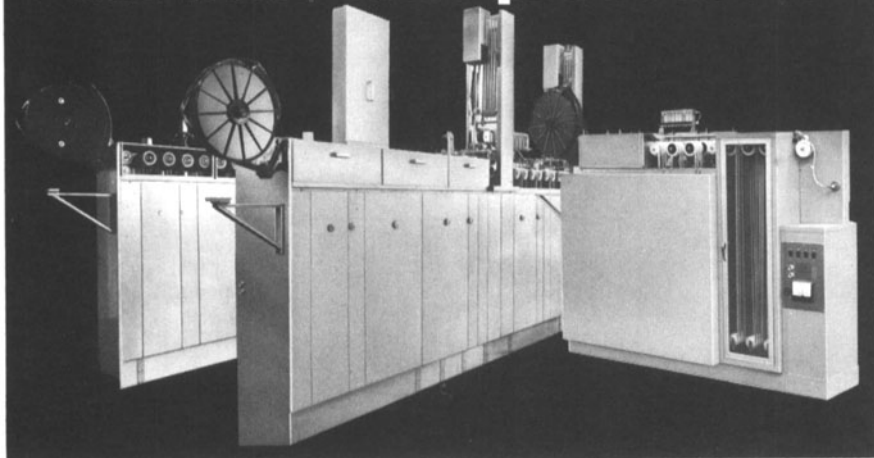
top of the hub and hangs slack below it. The tray is spill-proof and accepts all 2 \times 2 slides in any cardboard, plastic or glass mount and does not require slide holders. The trays store flat, thus saving carrying space. A patented, four-element optical system permits rapid, error-proof substitution of condensers to form the optimum light beam for a variety of lenses. A two-lamp cartridge keeps a spare lamp in the ready position inside the projector. The projector uses a 1200-W tungsten halogen lamp positioned horizontally. Features include a jam-proof clutch, integrated-circuit electronics and separate internal cooling systems for slides and optics. The Selectroslide 900 is priced at about \$1,400 without the lens.

A sound striping machine for use on original reversal film of an acetate base belonging to owners of the Heurtier St 42 Stereo super-8 sound projector (*Journal*, p. 504, June 1972) has been installed by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403. Because of the advanced design features of the projector, sound striping must be done in a different manner than the service provided by Eastman Kodak. In addition, the second stripe applied by Eastman Kodak is for balance while the second stripe affixed by Hervic's new striping machine is for sound. The new striping machine affixes the correct striping by a new process of tape bonding. Price for soundstriping is 6 cents per foot, with a minimum charge of \$12.00.

TEAC calibration and alignment tapes for both cassette and open reel have been announced by TASCAM Corp., 5440 McConnell Ave., Los Angeles, CA 90066. The tapes are made in the Standards Laboratory of TEAC Audio Systems Corp. of Japan and are usually produced to the individual order to avoid undue aging. At present 17 different test tapes are available, including speed deviation checks, standard operating levels, azimuth standards, frequency alignment standards and references, standard reference level and crosstalk checks. Price range for cassette tapes is from \$18 to \$48. Open reel tapes are all priced at \$25.

Time Announcer, Model 702, a tape time announcement system for use with broadcast logging recorders, has been announced by Tape-Athon Corp., 502 S. Isis, Inglewood, CA 90301. It provides a minute-by-minute audio call-out of time that may be recorded on the broadcast log as an indexer of logged material. The system consists of a tape transport and a taped voice announcement of the time on a 24-hour basis. The system may be tied into any type of standard logging equipment found in broadcasting or communications centers. Using a clock-controlled tape drive with an automatic feedback that continuously corrects synchronization, the 702 Time Announcer is able to provide timing accuracy of 3 s. The tape transport is priced at \$800. The voice-recorded tape is priced at \$55 and can be purchased separately.

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