

New Products & Developments

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

Two new housings for zoom lenses for the Arriflex 35BL camera have been announced by Arriflex Co. of America, 25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377. Housing No. 311-609 is designed for the 25-250 Angenieux lens; 311-610 is made for the 20-120 Angenieux. Both units are built to couple zoom, focus and iris adjustments to external controls. Readout of the settings are displayed in large, easy-to-read engraved numerals. The housings are designed to extend the use of the Arriflex 35BL equipped with a zoom lens into difficult, close quarters and other critical sound sync applications. The lenses can be mounted in their respective housings easily and quickly without tools. Price of each lens housings is \$2480.



The Frezzi-Flex™ Model FR-16 professional

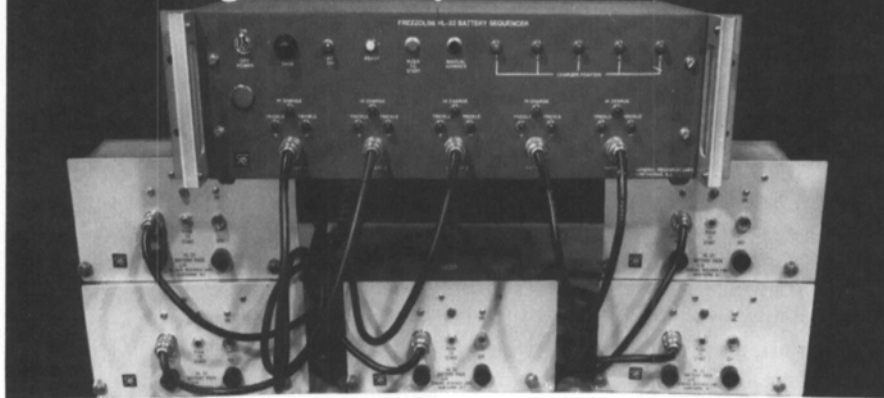
16mm motion-picture camera for single or double system sound is now in full manufacturing production it was announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The camera body weighs 8 lb 7 oz (3.8 kg). The entire system including camera body, viewfinder, Angenieux 12-120mm zoom lens, 400-ft Frezzi/Mitchell magazine, film load, quick-change internal nickel-cadmium battery, Frezzi MCA-16 two-channel side-mounted amplifier, and soundhead is 16½ lb (7.5 kg).

The camera design permits quick plug-in installation of a side-mounted amplifier for single-system sound operation without external or internal modification or re-assembly of the camera. The amplifier can be as quickly and easily unplugged for double-system sound filming. All Frezzolini® cameras are crystal-controlled and multi-speed ranging from 12 through 44 frames/s.

A number of options are available including an external battery eliminator/charger that can be operated from either 120 or 240 V ac, 50/60 Hz. Price of the camera body alone is \$6450.

The AT705, an electret condenser headphone has been announced by Audio-Technica, 33 Shiawasse Ave., Fairlawn, OH 44313. Features include permanently polarized diaphragms that need no external source of power. The headphones plug into a small adapter that matches impedance circuits and contains a speaker/headphone switch. The AT705 covers a frequency response range of 20-22,000 Hz. Openback A-T earcups are said to prevent resonance effects. The price is under \$90.

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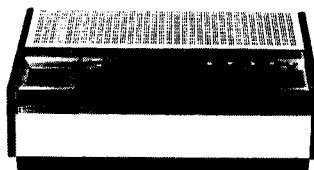
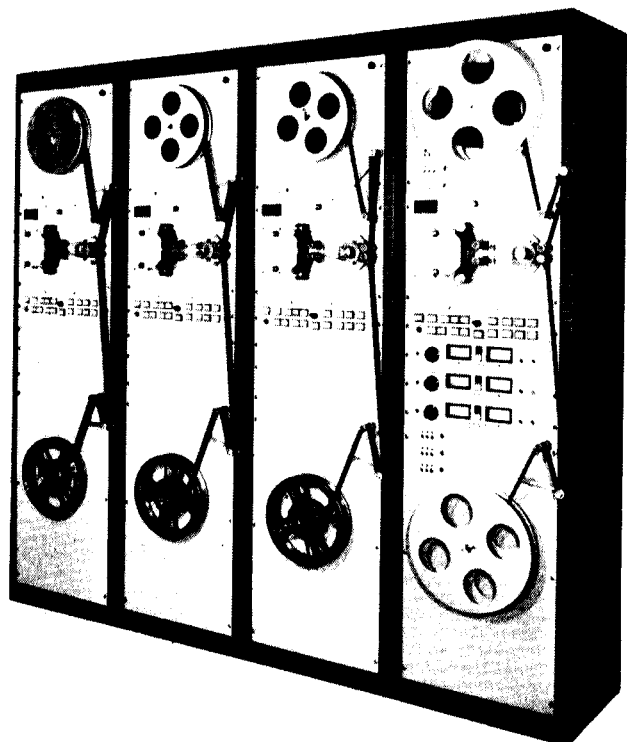
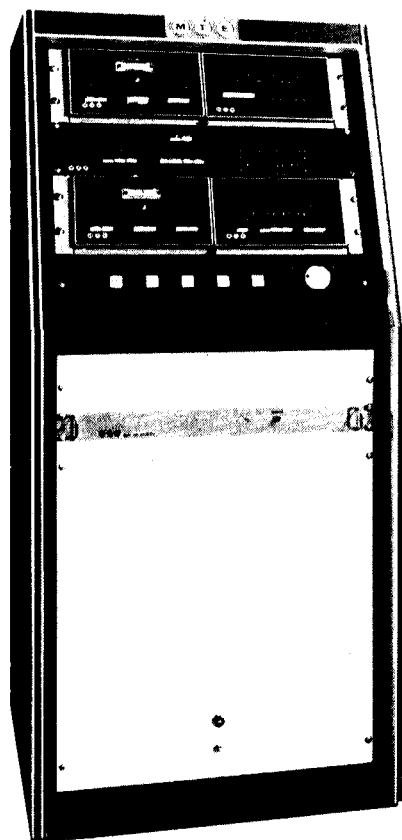


The Pro-Kit, a professional five-light quartz lighting kit has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The kit includes two focusing 1000-W spot lights; two focusing 650-W spot lights, all four with detachable rotating four-way barndoors; one 1000-W broad with integral four-way barndoors; four diffusion frame holders with diffusion spun glass; two gaffer grips; three "Pro" professional-type stainless steel light stands; five 15-ft 3-wire cables with in-line switches and parallel blade U-ground plugs; and an aluminum carrying case measuring 26 x 20½ x 9¾ in. The Pro-Kit operates at 120 V ac/dc with 1000-W single-ended and double-ended



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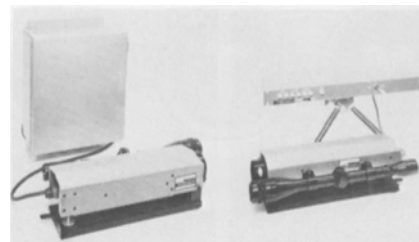
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lamps and with 650-W double-ended lamps. The price of \$895 does not include lamps.

The Rank Taylor Hobson Varotal 17-A lens, a 16:1 lens with a 2½× range extender, has been introduced by Rank Optics Taylor Hobson, Stoughton St., Leicester LE2 OSP, England, represented in the United States by Rank Precision Industries Inc., 411 East Jarvis Ave., Des Plaines, IL 60018. The 16:1 zoom ratio lenses have considerable versatility in focal length and are capable of covering a wide 30° angle down to a narrow 1.9° angle without range extenders. With a 1 3.4× extender the lenses can span from 17.1° to 1.1° and with the 2½× extender they can cover 12° down to 0.75° angles. The lens has a focal length of 25mm–1000mm. Designed mainly for outside broadcast use, with a wide-angle attachment the lens can also be used in studios. Prices range from \$17,000 to \$25,000 depending upon the sophistication of the controls.

The Marconi Mini-Mobile, a new, general-purpose mini outside broadcast vehicle has been introduced by Marconi Communication Systems Ltd., Marconi House, Chelmsford CM1 1PL, England. The vehicle is designed for all aspects of television journalism, including on-the-spot reporting, sports coverage and feature inserts. The Mini-Mobile can be equipped with two Marconi MkVIIIIP portable color TV cameras (or alternatively, one MkVIIIIP and one standard MkVIII), a videotape recorder, a vision mixer, an audio mixer, sync generators, color and monochrome monitors, a waveform monitor and a vector display. All of this equipment can be powered from an on-board generator. The Marconi VIIIIP, a lightweight (17 lb) camera can be used through a hatch in the vehicle's roof, affording the cameraman 360° visibility. Simultaneously, a second portable camera can be operated from a drop-down platform at the rear of the vehicle. When the vehicle is stationary, the cameras may be carried by the cameraman, operated from pedestals or set up on the vehicle's strengthened roof.

Signal Source 1207, successor to the earlier 207 and incorporating new operating features and updated circuitry has been announced by Visual Information Institute, P.O. Box 33, Xenia, OH 45385. Designed specifically for use in television camera calibration, it develops a grid pattern, either BAR, DOT, H BAR or V BAR, as selected by pushbutton, which is used as a reference in camera scan size and linearity adjustment. The pattern content is flexible. Operator controls are provided for horizontal and vertical position and spacing of pattern elements. Pattern polarity, either a black or a white pattern display is selected by pushbutton. Controls are also provided for pattern brightness and V BAR size. Control of the H BAR Start and H BAR Stop is provided to prevent sync tear on the display. Pushbutton selection is provided for Internal Sync (for operation from a composite input camera signal) or for operation from External Sync or External H Drive and V Drive when non-composite camera signals are used as inputs to the BAR/DOT Mixer. When the instrument is in the OFF position, the input signal is bypassed to the video output so the BAR/DOT Mixer may be permanently installed and yet allow normal system operation without the necessity for recabling when the mixed pattern is not being used. Signal Source 1207 is priced at \$595.



The Model 748 Infrared Carrier Remote Control System, a companion unit to the Model 747 TV Transmission System, has been announced by American Laser Systems, Inc., 106 James Fowler Rd., Santa Barbara Airport, Goleta, CA 93017. Both systems use an infrared carrier to transmit control or video signals from one site to another with no interconnecting wires or licensing requirements. Model 748 transmits up to 16 standard control functions from a control point to the TV camera system for pan and tilt, motorized lens control, illuminators, camera switching or other functions as required. Installation is said to be as quick and easy as lining up the crosshairs of the built-in telescope on the mating unit using the built-in horizontal and vertical adjustments.

The Model 748 transmission link can be used also for any system that requires line of sight digital data. Typical transmission applications include instrumentation data, numerical control, multipoint security alarms, simple or duplex computer data transmission and remote combustion process monitoring and control. Range of the Model 748 is eight miles with a 5-milliradian field of view. Other lens and range options are available. The 748 transmission link consumes 3.5 W of 115/230 V ac, 50/60 Hz power with a 12 V dc battery-powered option. Standard interfaces are available for pulse position and pulse width modulation at TTL and CMOS levels. It can be adapted to most PCM modulated control systems such as VICON modpulse up to a data rate of 10 kilobits/s. The price is \$4800.

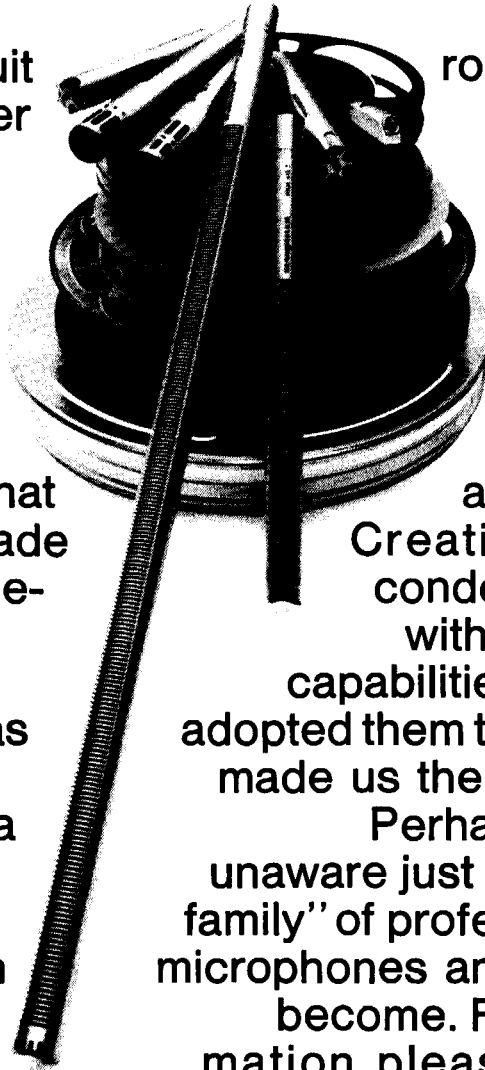


The VIZ WR-50C signal generator, developed as a successor to the RCA WR-50B with improvements such as a rugged FET amplifier and completely solid-state design, has been announced by VIZ Test Instruments Group, 335 East Price St., Philadelphia, PA 19144. The new signal generator covers fundamental frequencies from 85 kHz to 40 MHz in six ranges and harmonic frequencies on higher bands. A large, highly visible frequency selection-scale keyed to a range switch makes the generator simple to use. The selection switch also includes two positions for special 455 kHz and 107 MHz sweep outputs for broadcast and FM IF sweep alignment.

The RF output is 75 mV rms min for all ranges. The dial calibration accuracy is reported to be ± 2%. The generator has built-in modulation and in addition a crystal-controlled os-

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cillator circuit for special markers or calibration. Included is a two-step 10:1 switch plus vernier for VFO sweep output attenuation and a two-position 7:1 switch for crystal oscillator attenuation. The unit measures $7\frac{3}{4} \times 5\frac{7}{8} \times 4\frac{1}{8}$ in. It is powered by 105-130 V, 50-60 Hz but can be changed to operate on 240 V 50-60 Hz. Price of the WR-50C is about \$117.

The Signal Source 1406 Pedestal Generator designed to overcome problems associated with the "sweeping" method of bandwidth analysis has been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385. The Pedestal Generator combines video sweep, blanking and sync inputs into a composite video signal. It is designed to permit sweep of video amplifiers without upset of clamp or dc restoration circuits and to avoid alteration of circuits for effective sweep testing. It is said to be useable at various TV scan rates without recalibration or modification. Features include fiber glass circuit boards with gold-flash contacts for maximum reliability as well as plug-in circuit cards for easy maintenance or modification. The 1406 Pedestal Generator is priced at \$400.



The Crystal Clapper, Model TX5-C, a dual-purpose device which is, basically, a 60-Hz crystal-controlled sync generator for cordless double-system filming, has been announced by Tobin Cinema Systems, 3227 49th Ave. S.W., Seattle, WA 98116. The output is $1\text{ V} \pm 20\%$ with under 5% harmonics and a room-temperature calibration of $\pm 0.0003\%$. For stability, operating voltages are regulated and an AT-cut quartz crystal of over 3.5 MHz is employed. In addition, an optical-electronic startmark is provided which consists of a fast-responding light together with a $10\text{ V} \pm 10\%$ dc output to energize the bloop oscillator of a professional recorder. At the start or end of a take, the camera can be pointed at the Crystal Clapper and the pushbutton actuated to yield a startmark. On special order the 60-Hz signal can be made interruptible if it is desired to introduce automatically a marker tone when recording on magnetic film.

The TX5-C is powered by two 9-V alkaline 160-h batteries. The price is \$99.44 without the cable.

A new high-audio quadruplex color videotape designated "Scotch" brand 8250 has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. Audio sensitivity of a 15-mil (0.38mm) wavelength signal is +3 dB and maximum undistorted output of the same signal is +5 dB. The "Scotch" 8250 videotape is reported to regain the normal SNR loss resulting from splitting the audiotrack into stereo, resulting in higher output for the cue track and greater reliability for time and control codes. The new videotape is designed for compatibility with existing tapes and equipment with no bias or equalization changes needed for optimal

performance. A minimal tape life of 2000 passes under good conditions has been reported together with a low potentiality for headwear which, however, is subject to equipment and handling circumstances. A 66-min 4950-ft reel of the 8250 videotape is priced at \$238.



Option 031 for Hewlett-Packard's Model 5328A Universal Counter adding five features to the counter's capabilities has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The basic Model 5328A with no options can make frequency measurements to 100 MHz and single-shot time interval measurements to 100 ns resolution. Option 031 makes it possible to extend the frequency range to 1300 MHz; to provide 20 mV sensitivity for measuring low-level signals; to add automatic gain control (AGC) for protection against overload; to include a fused 50 Ω input channel; and to provide accessory power for a 20 dB preamplifier for more sensitivity.

The basic Model 5328A can measure period, period average and frequency ratio and can totalize and scale inputs. Frequency measurement sensitivity is 25 mV rms to 40 MHz and 50 mV rms to 100 MHz. Arming capability provides control over the start of a measurement. When the counter is switched to the armed mode an input on one channel determines when the counter starts a measurement on a second channel. Such control is essential for frequency profile measurements on swept signals. Arming also enables time interval measurements starting on a selected pulse in a bit stream. Price of the Model 5328A with an 8-digit display and a standard crystal time base is \$3100. Option 031 is priced at \$600.



The Video Noise Meter, Model VNM-428, designed to permit measurement of SNR in any standard video waveform using only a general-purpose oscilloscope with a bandwidth of at least 5 MHz, has been announced by Lenco, Inc., Electronics Div., 319 West Main St., Jackson, MO 63755. Typical applications include evaluation and measurement of television cameras, videotape machines, cable television systems and microwave systems. Accuracy is reported at better than $\pm 0.5\text{ dB}$ throughout the range of 20 to 55 dB with the SNR shown directly on a large LED display. A newly developed technique is said to make possible precise measurements of noise without interrupting system operation or requiring the use of an oscilloscope with vertical-interval capability. The noise on a signal is compared with itself and with a variable cali-

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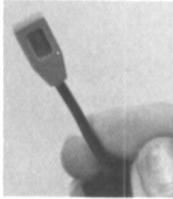
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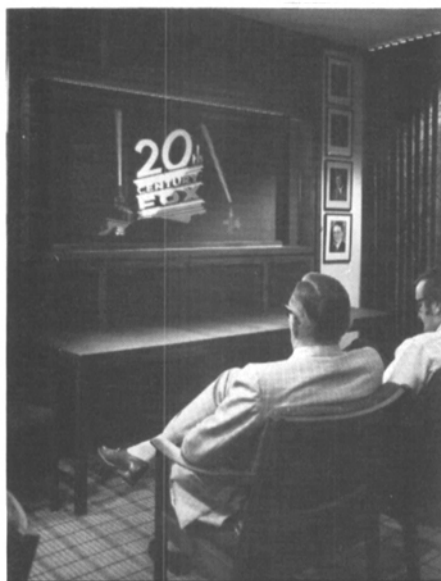
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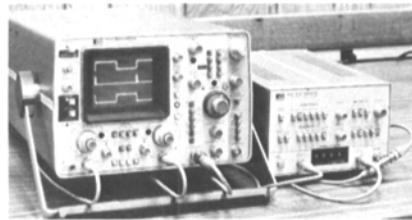


Rear projection screen offers advantages

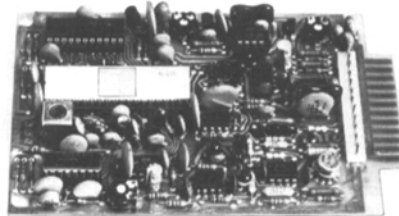
A built-in Da-Lite Da-Plex™ "Picture Window" rear projection screen works in normal room lighting and eliminates distracting projector noise. It is superior for screening, briefing and conference rooms. Da-Lite has a complete line of standard and custom designed screens. Write or call today for the name of your nearest Da-Lite Audio-Visual Specialist.

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brated reference. The results are converted to a logarithmic scale and displayed on the digital meter as SNR in dB. The VNM-428 is priced at \$1375.



The 1741A oscilloscope utilizing a newly designed variable-persistence/storage CRT has been announced by Hewlett-Packard, 1501 Page Mill Rd. Palo Alto, CA 94304. The 1741A combines the advantages of variable persistence to integrate glitches or low-duty-cycle traces into clear displays with the advantages of storage for single-shot events. The writing speed is 100 cm/ μ s. The Auto Erase mode produces single-shot displays, one after another, as many as 10/s. The sequence of scan, display, erase and reset is automatic for ease in set-up. Price of the 1741A oscilloscope is \$3950.



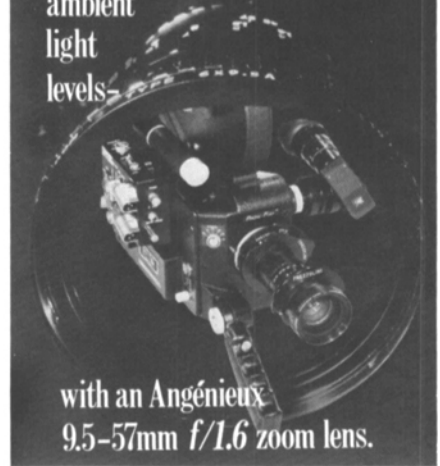
The Varispeech Model 20, a real-time pitch shifter and speech compressor/expander for original equipment manufacturers' use in tape, disc and film sound reproducing equipment, has been announced by Lexicon, Inc., 60 Turner St., Waltham, MA 02154. All electronics including a 4K RAM 8-bit digital-to-analog converter and LSI microprocessor pitch computer chip are mounted on a 3½ × 5-in PC card. Use of the microprocessor provides high reliability, low power consumption and compact size.

Model 20 produces a multiplicative pitch shift for all frequency components of the input ($f_o = Nf_i$) as opposed to heterodyne pitch translators that produce an output of ($f_o = f_i + N$). All units shift pitch in real time from two times higher than normal to 0.4 times lower than normal. Model 20 corrects pitch of rate-altered speech permitting the listener to listen at his own rate of comprehension between one-half and two and one-half times the original speed.

A 4096-bit random-access memory stores digitized voice samples. The rate at which data enters the memory is proportional to tape speed. Data emerges, however, at a constant 16-kHz frequency insuring the restoration of correct pitch. A patented splicing technique is said to eliminate pop and splice noise. Model 20 modules are priced at about \$100 each when ordered in large quantities.

The Super8 Sound Recorder I has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. An improved version of the firm's original super-8 fullcoat recorder, the new recorder has all the operating features of the original plus an integral sync meter on the front panel of the recorder separate from the VU meter. The separate sync meter allows the op-

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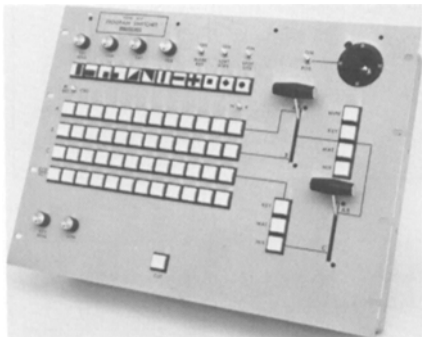


Advance Program and
 Exhibit Directory
 Coming Up in
 December SMPTE Journal

erator to monitor both VU level and sync condition simultaneously. Designated the S8SR1, the unit has a frequency response of 24 frames/s, 30-13,000 Hz; 18 frames/s, 30-10,000 Hz; SNR at 24 frames/s, 45 dB; wow and flutter at 24 frames/s, less than 15%; 18 frames/s, less than 0.2%. The S8SR1 synchronizes with more than 40 super-8 cameras with no camera modifications. The price is \$795.



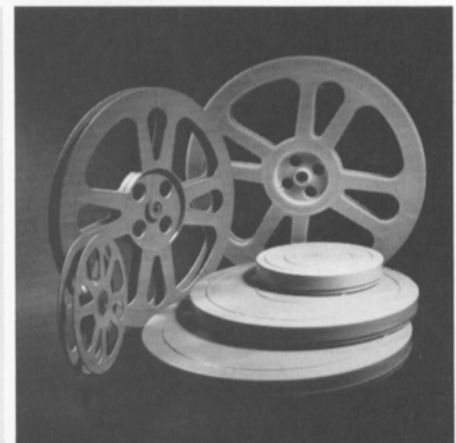
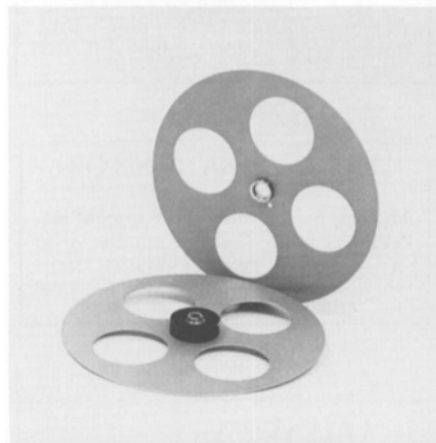
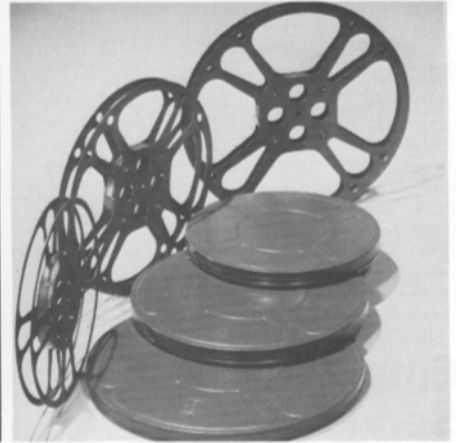
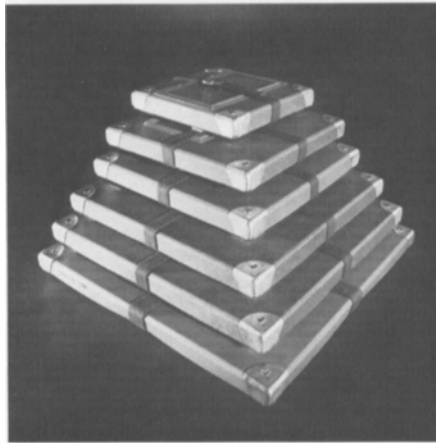
Super-Vision, an optical system that can be placed in front of a normal 35mm projection lens to increase the image to fill 70mm screens or greater, has been announced by S-V Optics, Inc., 2020 Sansom St., Philadelphia, PA 19103. The Super-Vision lens system can be used in combination with any motion-picture size lens for super8, 8mm, 16mm and 35mm film as well as with slide projectors. Invented by Evan J. Anton, the system is said to increase the projected image from three to 10 times its normal size without increasing the projection throw and while maintaining the resolution at all stages of magnification, without grain and in focus. A leasing arrangement for theater use has been established with a rental fee tentatively established at about \$500 per year per lens.



The Model 7400 Program Switcher, a 4-bus TV switcher and special effects generator, has been announced by Dynasciences, subsidiary of Whittaker Corp., Township Line Rd., Blue Bell, PA 19422. The Model 7400 is remotely controlled through TTL logic inputs to facilitate use in computer-assisted post-production systems as well as from the standard remote control panel. The unit accepts 12 synchronous inputs. It can generate 23 different wipe patterns and is capable of keying, color matting and mixing. Additional features include soft wipe, spotlight and mask key capability and a built-in black burst and color background generator. Standard wipe patterns are horizontal, vertical, corner, diagonal, vertical and horizontal bar, square, cross and diamond. A circle effect with an x-y positioner is available as an option. Model 7400 features 100% vertical-interval switching. Tally switching is provided for all inputs and a cut bar provides for switching between program and preview outputs. The switcher is available in NTSC, PAL and PAL-M versions. Price of the 7400 is \$7500. With the circle effect option the price is \$8400.

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