

New Products & Developments

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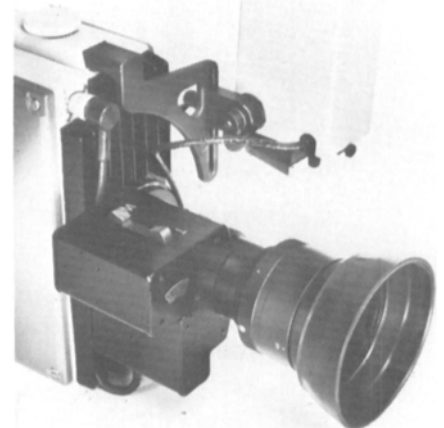


The Schneider 30X Field TV Lens has been announced by Tele-Cine Inc., 5434 Merrick Rd., Massapequa, NY 11758. The lens is compact, comparatively lightweight and has a continuous zoom range with focal lengths of 33-1000 mm, $f/2.1$, for $1\frac{1}{2}$ -in formats and 27-816 mm, $f/1.7$

for 1-in format cameras. The lens is available with a 1.7X range extender and uses the Schneider interchangeable servo system. The price range is from \$21,925 for manual control up to \$27,666 for complete zoom/focus servo with shotbox.

Photo-Sonics Models 35mm-4M and 16mm-1P medium high-speed cameras have been improved by incorporating "dial-in" continuously variable speed control and a universal wiring harness for plug-in 28-V dc or 115-V ac components, according to an announcement from Instrumentation Marketing Corp., 820 South

Mariposa St., Burbank, CA 91506. The new models, designated 35mm-4ML and 16mm-1PL, utilize identical plug-in servo electronics. Both cameras also accept the new plug-in synchronous phase lock and/or remote speed select electronics. The 35-4ML speed is from 10 to 200 frames/s with interchangeable magazines of 200-, 400-, and 1000-ft capacities. The 16-1PL speed is from 10 to 500 frames/s and up to 10 pulses/s with the pulse modification kit. Interchangeable magazines have capacities of 200, 400 and 1200 ft. Price of the 16-1PL is \$3895. The 35-4ML is priced at \$11,125.



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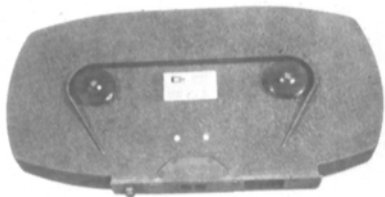
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The Yashica Sound 20XL, a super-8 sound movie camera, has been announced by Yashica Inc., Paramus, N.J. The new camera has a 2:1 zoom lens, available light capabilities and simplified operating controls. It measures 214 x 62 x 198 mm (about 9 x 2 1/2 x 8 in) and weighs 1.2 kg (2 1/2 lb). The 20XL camera has an $f/1.1$, 9.5-19 mm Yashica zoom lens with universal focus. The filming speed is 18 frames/s when sound cartridges are used. The shutter has an aperture of 230 degrees of arc which passes more than the normal quantity of light to permit available-light

filming under normal room lighting with the faster types of film.

The sound recording system is based on the Ekta-Sound single-system method which utilizes a magnetic oxide stripe on the edge of the film to simultaneously record sound and image. The sound is recorded with an automatic volume level control applied to a two-way level selector (normal and low). A varifocal optical viewfinder provides visual monitoring of both the sound and the film run with a film-run/film-end indicator and also an under-exposure signal. The camera has complete automatic exposure control. The price is about \$265.



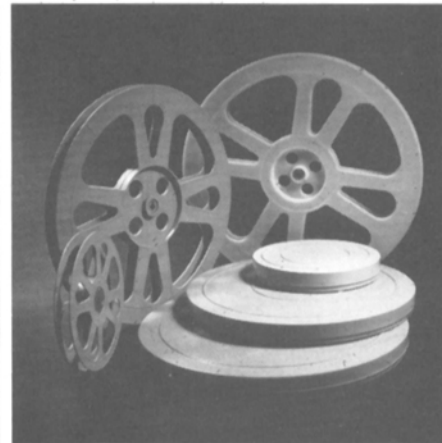
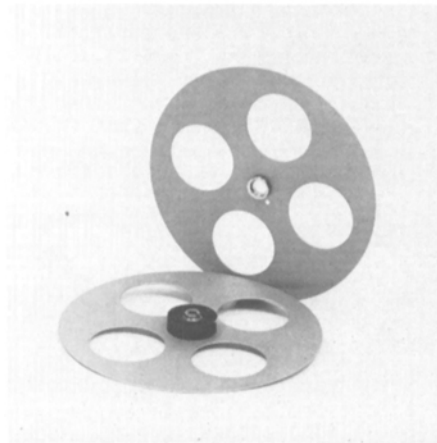
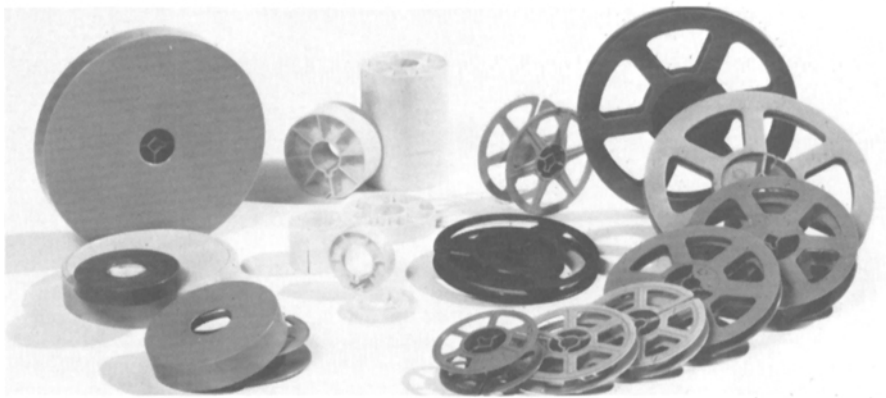
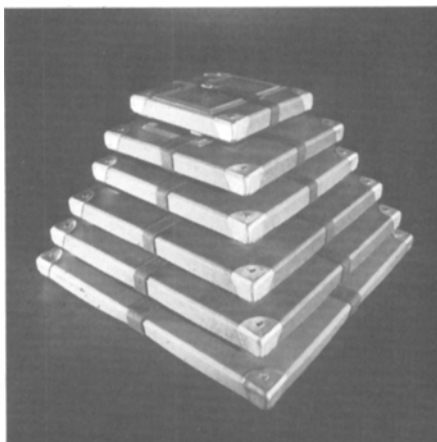
The new PLC-4A 400-ft magazine has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The magazine, compatible with all 16mm camera systems accepting standard 400-ft magazines, is made of glass-filled Lexan®, a material with greater impact strength than magnesium. The PLC-4A features an all-new take-up assembly providing for steady, positive film tracking. Sound dampening material is specially fitted into each magazine door to reduce system noise thus making the PLC-4A a quiet operating magazine. Corduroy liners are fitted in both film chambers to ensure a clean, "fuzz-free" film magazine. An improved spindle system in both film chambers allows for easy film loading and removal through the use of a positive pushbutton lock/release system, permitting both supply and take-up core adapters and daylight-load spools to be locked securely during filming thus preventing rattle and wobble. Price of the PLC-4A is \$210.



The PortaPed, a pneumatic pedestal designed for use with ENG, remote and lightweight cameras, manufactured in England by W. Vinten Ltd., has been announced by the distributors, Listec Television Equipment Corp., 39 Cain Drive, Plainview, NY 11803. Features include pneumatic counterbalancing, a central column

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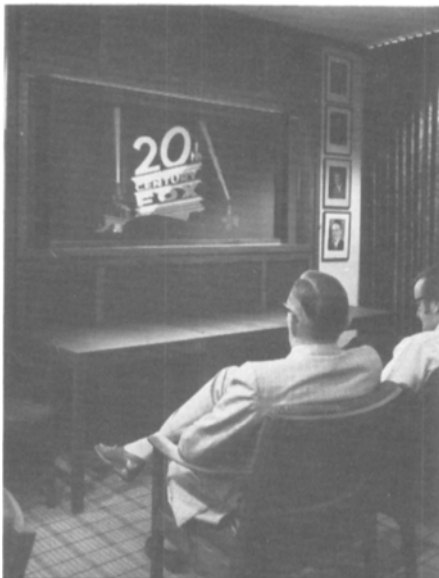
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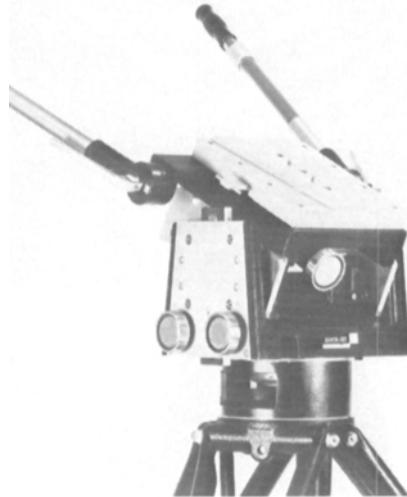
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leveling device and lightweight, foldable portability. The PortaPed requires no external charging equipment in order to balance up to 100 lb of camera load. The mechanical self-leveling device uses no fluids and allows up to 40° of tilt. When folded the 30-lb PortaPed measures 27 × 10 in. When extended the folding legs occupy a ground radius of 16 in enabling the unit to be used in normally inaccessible corners or confined spaces. Even with one leg on a step or curb, or on other uneven ground, the leveling facility can neutralize the imbalance. Price of the PortaPed is \$2400. It is available with a folding dolly at a price of \$2645.



The Gibraltar Cam Head has been introduced by Quick-Set, Inc., 3650 Woodhead Dr., Northbrook, IL 60062. Based on the Houston Fearless HFCH cam head, the new version is smaller in size and lighter in weight although it can accommodate camera loads up to 375 lb. A roller bearing system provides 360° panning. Camera tilt is ±50°. Interchangeable dual cams, ranging in size from 3 in to 10 in, match the head to the specific center of gravity of most cameras to counterbalance the load. A movable wedge plate adapter, an integral part of the balance system, achieves forward and aft camera balance. Price of the Gibraltar Cam Head is \$1300. Optional accessories include a second telescoping control arm and a wedge plate.



The ITE-H9 Hydro Head, a lightweight camera head, and the ITE-T2, a 5-lb tripod, both designed for use with small, portable ENG-type television cameras, have been announced by Innovative Television Equipment, P.O. Box 681, Woodland Hills, CA 91364. The camera head offers hydraulic dampening in both pan and tilt modes for smooth, jerk-free camera movement. The camera center of gravity is kept in balance by use of a counter balance torsion device. A special disconnect mounting system allows for quick camera mounting or removal. Separate friction and lock controls for both pan and tilt are provided. The ITE-H9 weighs 8 lb and has a camera load capacity of 30 lb. The price is \$575.

The tripod is a lightweight (5 lb) compact unit designed for rapid and simple operational sup-

port for ENG-type cameras weighing up to 40 lb. The ITE-T2 measures 39 × 5 × 5 in folded and extends to a maximum height of 63 in. The price is \$165.



A 42-lb backpack television transmitter, developed at the request of the Royal Canadian Mounted Police, is now being produced for other markets by Electronics, Missiles & Communications, Inc. (EMCEE), White Haven, PA 18661, according to a recent announcement. The backpack transmitter, powered by a rechargeable battery was developed as a device for crowd surveillance and control. The transmitter itself weighs 22 lb. It carried a 17-lb battery and a 3-lb backframe. It is reported to be capable of transmitting a television picture for eight hours of continuous operation at low power or five hours at maximum power before batteries require recharging. The range is up to 8 mi depending upon the terrain. These units are now being built to order and the price is about \$5600.



A new television routing control system has been developed by Prowest Electronics Ltd., Alma Road, Windsor, Berkshire, England, for NRK, Oslo, the Norwegian broadcasting authority. Simple control of the routing of television sound and pictures to, from, and between video and

telecine machines is provided by the £100,000 switcher. The status of the system is displayed on the monitor. In the event of a power failure the complete routing status is memorized by a CMOS (complementary metal oxide semiconductor) store and re-established when the power supply is restored.

The system is founded on traditional broadcasting engineering techniques, not using a computer. Videotape machines or telecine machines are grouped in suites. Each suite has three program input lines and three program output lines. The switcher connects sources to the input lines or destinations to the output lines. The whole routing is controlled by a simple control panel, approximately 25 cm. square and the system status is displayed on a standard video monitor. Multiple levels of switching are provided, such as forward and reverse communications, vision and sound cuing and synchronizing pulse information.

When a source or destination is connected to a given line (machine), the correct synchronizing pulses are also connected to that machine. In order to prevent two different sets of pulses being connected simultaneously, use of the output line is inhibited if the input line is in use, and vice versa. The output lines from the groups of machines can have text added from any of four text machines without changing the timing of the main route. In addition five tie lines are used to connect the input lines to the output lines, allowing one group to be used as a source to a second group. Further inputs and outputs are available for miscellaneous use as jackfield numbers.

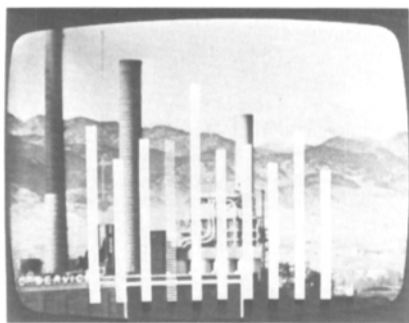
Techniques used in this system make it possible to control a complex routing system involving six separate video matrices and a similar number of program sound, communications and cue matrices. Control operations are carried out on a simple panel with reduced likelihood of operational error. Flexibility for future changes is retained without the large software implications of a computer-based system. Techniques more familiar to the broadcast engineer are used, allowing maintenance to be carried out by the local staff.



A digital cartridge storage unit, in fact a random-access cartridge memory, designed for use with the 3M Datavision D-2000 and D-3000 television character generators, has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. Designated Model DCS-1, it is a one-piece, desk-top unit which connects to the character generator by means of a 25-pin cable and uses Scotch brand DC 100A data cartridges capable of storing 300 240-character pages per cartridge. An address keyboard on the unit's face controls the system and a three-digit alphanumeric display indicates its present status.

The DCS-1 operates in 32 playback modes, displaying one-, two-, or three-line titles or a full page of characters at any of eight pre-programmed playback rates ranging from eight to 1000 characters per second. Features include a built-in tape formatter for automatically recording address information onto a new cartridge. The DCS-1 is 15½ in wide, 4½ in high and 12½ in deep. The cartridge memory unit has

a 10-page-per-second search rate. The DCS-1 operates on 110/117 V ac single phase, 50/60 Hz, 70 W. The price is \$2395.



The Bar Graph Generator, Model 101, has been announced by Colorado Video, Inc., Box 928, Boulder CO 80302. Model 101 is designed for use with standard closed-circuit TV systems to provide a graphic display of 10 separate input signals in the form of a series of vertical bars on a TV monitor, the height of each being proportionate to the associated input voltage. The resultant display is a means of showing relationships of monitoring the status of a multiplicity of functions. A typical monitor display is shown above. The Bar Graph output signal may be mixed with visual information from conventional TV cameras. The systems flexibility of a modern industrial TV system can be used in terms of large or small screen display, multiple station monitoring, switching, mixing, etc. Operating controls allow the positioning and spacing of the bar group for maximum display efficiency as well as providing for identification of individual channels. Two or more Bar Graph Generators may be used when additional inputs are required with groups being distinguishable by spatial location, size or video polarity. Price of Model 101 is \$1250.



The BVH-1000, a 1-in high-band videotape recorder, has been announced by Sony Broadcast, 9 W. 57 St., New York, NY 10019. The ma-

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chine is specified at a video bandwidth of 4.2 MHz \pm 0.5 dB and video signal-to-noise is 48 dB. The BVH-1000 has three audio tracks and incorporates an internal 400-Hz tone generator. The cue channel accepts the SMPTE code without modification. The servo system utilizes five motors, and includes drum servo, capstan servo, tension servo and reel servo to assure gentle tape handling and interchange. The recorder utilizes the Sony-developed 1.5 head system designed to eliminate missing information caused when the video head completes the field. All vertical lines are available for VIRS, VITS and user coding.

The machine has been designed to handle all post-production editing. A built-in bi-directional search control called Bidirex allows the tape to be reviewed in either direction in the same manner as a film editing table. The non-segmented format allows the tape to be seen in stop frame or as fast as 30 times normal speed.

Color framing or VH lock are standard with the BVH-1000 and head optimization is possible in minutes. Components of the BVH-1000 break down into four separate sections allowing the recorder to be mounted in a number of console configurations. The BVH-1000 is priced at \$33,000. An optional built-in SMPTE generator/reader and a heterodyne recovery system are available at additional cost.

The TT-4 and TT-5 digital LED tape timers have been announced by Convergence Corp., 17935 Sky Park Circle, Irvine, CA 92714. When used in combination with the Convergence ECS-1 Joystick Editor they provide a continuous readout of tape time in minutes and seconds for both playback and record videocassette re-

orders in an ECS-1 editing system. Both the TT-4 and the TT-5 can be used in combination with the ECS-1 to facilitate rapid scene location or for measuring scene or program lengths on helical videocassettes. In addition, ENG news stories can be timed while they are being edited and educational industrial or medical training tapes may be quickly assembled with random-accessed scenes on multiple source tapes.

The LED displays may be reset to zero or preset to any number up to 59 min and 59 s. Accuracy in both systems is maintained by counting control track pulses from standard videocassette tapes. The record channel automatically switches to the 60 Hz ac line in the assemble record mode to provide a constant readout of accumulated program time on the edited master tape.

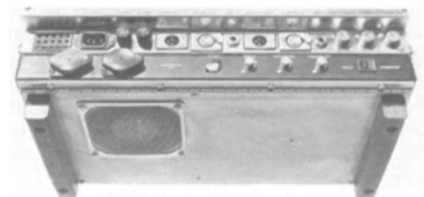
The TT-4 mounts under the single 9-in video monitor on an ECS-1 editing console. The TT-5 mounts on an ECS-1 console equipped with dual 9-in monitors. In addition to sharing all the features of the TT-4, the TT-5 has a dual set of remote controls to command fast forward, rewind, stop or play on either VCR in an ECS-1 editing system. A connector is provided on the back of both models for parallel BCD output of timing data. The output can be used for interconnection to the optional Convergence PC-3 Program Computer for automatic bi-directional tape search from the PC-3 keyboard. It may also be used for remote display of tape time on other display devices capable of accepting parallel PCD input. The TT-4 is priced at \$1100; the TT-5 at \$1200.

A new Bauer 16mm Selecton type 11/0 projector, a stationary, heavy duty projector designed for studio, auditorium, screening room and

similar applications, has been announced by Arriflex Company of America, P.O. Box 1102, Woodside, NY 11377. Features include a horizontal xenon lamphouse (for 900-W or 1600-W xenon bulb) for 15% more light output than with conventional units, and a Geneva movement film drive for picture steadiness (15/1000 vertical; 1/100 horizontal). Other features include an 80-millihenry magnetic replay head; optical/magnetic pre-amps with output levels of 0.2 V/0.5 V/1.55 V at 600 Ω ; 5000-ft film capacity; and control electronics and switches pre-wired and built into the pedestal. The price is \$9850.



The NAC Model DF-35 flicker-free 35mm analysis projector with rear screen projection has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The system is designed specifically for use in photoinstrumentation fields such as medical x-ray, industrial research, human engineering, visual instruction, simulation systems, time-lapse, etc. Features include flat-bed loading, continuously variable speeds from 0 to 32 frames/s forward and reverse, stop-motion, and constant picture illumination in ambient lighting in all modes with no film damage. The projector has large-screen front projection capability and Polaroid photography capability while viewing the image on the screen. Other features include a remote control box containing projection speed/direction knob, an illuminated LED frame counter with pushbutton zero reset, and pushbutton for single frame advance/reverse or instantaneous stop at any speed from 0 to 16 frames/s. The projector has a 400-ft capacity with high-speed rewind. Input voltages of 100 V (50/60 Hz), 115 V (60 Hz) or 220-240 V ac are available. Price of Model DF-35 is \$7100.



ChromaCon, an add-on accessory for IVC-700 and IVC-800 videotape recorders designed to provide a significant improvement in their color performance, has been announced by International Video Corp., 990 Almanor Ave., Sunnyvale, CA 94086. A recent advance in VTR technology, the recording of down-converted chrominance signals directly onto the tape permits extended multi-generation capabilities by affording higher luminance SNR, better chroma linearity, absence of visible moiré and a low level of chroma streaking, the announcement stated. An automatic chroma control eliminates the

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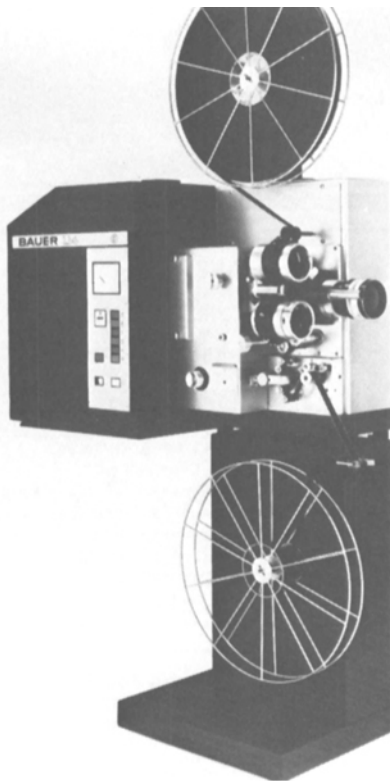
need to adjust levels when playing back through digital timebase correctors. Interface with most TBCs is simple and practical allowing for the use of regenerated 3.58 MHz subcarrier for direct TBC processing. The ChromaCon system is available in kit form. The price is \$1500. The kit includes switchable electronics that permit playback of tapes recorded on VTRs without Chromacon as well as permitting recording of tapes to be played back on machines not equipped with ChromaCon.



A frequency counter designated WD-752A has been announced by VIZ Test Instruments Group, VIZ Mfg. Co., 335 E. Price St., Philadelphia, PA 19144. The new frequency counter is designed for making frequency measurements between 10 Hz and 60 MHz in audio, video, CB, ham radio and other communications equipment. Features include a 1 kHz audible side tone with separate on-off volume control. The 1 kHz tone can be used to modulate single-sideband transceivers for carrier-frequency measurement. The counter has a selectable input sensitivity of either 10 or 100 mV, the lower sensitivity being used when considerable noise is present with the signal. The instrument uses a 10,000 MHz crystal to provide an accurate time base ensuring the accuracy of the 10, 100 and 1000-ms gate signals and logic control. The unit operates on 115 V \pm 10 V, 50/60 Hz. It measures $2\frac{1}{2} \times 5\frac{3}{4} \times 9\frac{1}{4}$ in and weighs 4 lb. The price is about \$255.



A new ellipsoid family of spotlights for the theater has been announced by Berkey Colortran, 1015 Chestnut St., Burbank, CA 91502. The six ellipsoidal reflector spotlights are said to provide effective lighting from distances of 14 to 140 ft. The units are available in 40°, 30°, 20°, 10° and 5° field angles. All are rated for 1000 W and accept 500-W, 750-W and 1000-W medium 2-pin base 120 V tungsten-halogen lamps. Each unit is equipped with four framing shutters, pattern slot and C-clamp. New low-expansion borosilicate plano-convex lenses are used to provide a sharp, high brightness field. Prices range from \$174 for the unit with the 40° field angle to \$450 for the 5° field angle.



The Bauer U-4 projector, an integrated 35-mm projector designed for use in semi-automated theaters, is available with a new horizontal xenon lamphouse, it was announced by Arriflex Company of America, P.O. Box 1102, Wood-

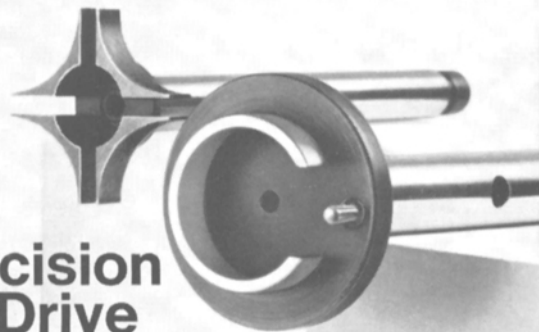
side, NY 11377. The projector is pre-aligned and pre-wired and incorporates as a standard feature the new xenon lamphouse for 900-W to 400-W bulb capabilities. Heart of the new lamphouse is a cast aluminum xenon block with built-in carriages designed to simplify lamp and reflector alignment. An optically calculated aspherical cold light mirror is said to increase light output by 15% over conventional systems.

Other features of the U-4 include a three-lens manual turret, adjustable pressure bands in the film trap and a single-blade shutter rotating at 2X normal speed for 12% higher light output. Price of the U-4 with the new lamphouse is \$10,300.



The Reelex, a new reel extender for the original Super8 Sound Recorder and the new Super8 Sound Recorder I has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. The new accessory is said to permit continuous runs of up to 75 min exceeding the 1200-ft maximum film run possible with standard super-8 projectors. The Reelex is belt-driven by the recorder and requires no tools or modification of the recorder for installation. It is a table-top unit for laboratory use and not for portable field use. The price is \$95.

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A new Universal Console, a pre-wired, stand-alone system has been announced by Eprad Inc., Box 4712, 123 West Woodruff, Toledo, OH 43620. The basic system includes the Universal xenon lamphouse, power supply, pedestal, mounting brackets for soundhead and projector, and tilting base with leveling feet and control panel. For screens up to 35 ft the 1600-W Eprad Universal Console is priced at \$3050. For screens up to 45 ft, the 2500-W console is priced at \$3495. Optional accessories include the Eprad Co-Operator for automating the projector and lamp for start, changeover and shut-down; the Auditorium or the Mini-Auditorium Programmer; Exciter Lamp Power Supply (dc); POS-1 or POS-2 solid-state amplifier; external fan box; and circuit breaker panel.



A xenon conversion kit for Bell & Howell and Kodak 16mm projectors has been announced by Mackenzie Laboratories, Inc., 5507 Peck Rd., P.O. Box 3029, Arcadia, CA 91006. The kit uses the Varian VIX-300 illuminator (*Journal*, p. 258, Apr. 1976). The light output is said to be the same as that of the Marc-300 (1350 screen lumens) at a price of less than 20 cents an hour. The VIX-300 lamp is reported to have a life of 1000 hours. It can be installed in the field and is said to be safe to handle and ozone-free. The VIX-300 lamp may be used in projectors formerly using the Marc-300 lamp. It can also be used to convert standard incandescent projectors to provide as much as four times the light output. The kit, including the power supply, the VIX-300 xenon illuminator, all mounting hardware and conversion instructions, is priced at \$1495.