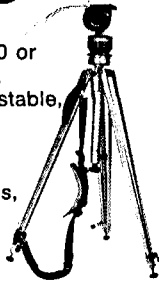




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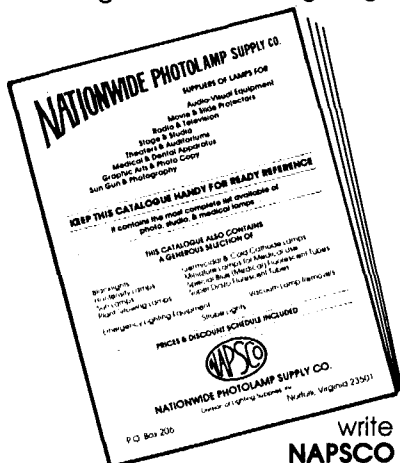
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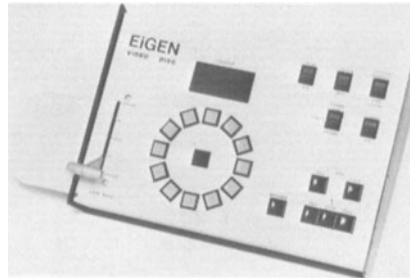
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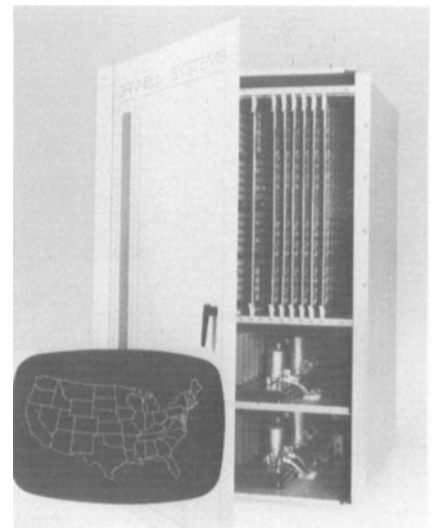
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# New Products & Developments



The Color Disc Recorder, Model 15, has been announced by Eigen Video, P.O. Box 1027, Grass Valley, CA 95945. Built-in signal enhancement is said to improve chrominance SNR 3 dB and to allow up to 6 dB edge enhancement in luminance. Luminance SNR is over 44 dB. The recorder has joy stick control — a fader-arm control for glitch-free continuously variable speeds from 60 fields/s down to freeze in forward or reverse. A circle of 12 lights separates the 20-s capacity into sectors of 100 fields allowing the operator to see at a glance the time remaining on the loop as well as at the position of key parts of a play. Typical cue time is under 2 s; the maximum is 4 s. Slide and animation operation have been simplified with jog control allowing the recording of images as either fields or frames. Frame operation pairs two fields in an odd-even sequence that is duplicated in playback, eliminating the chance of having a field each from two different images. The jog control plays back either fields or frames, allowing slide changes to music. Model 15-20T includes the joy-stick control, signal enhancer, digital time-base corrector and dropout compensator. The price is \$38,500. Existing Eigen recorders can be upgraded to joystick control and enhancer for \$3500.

cordings can also be made for playback on television by means of an optional black-and-white camera and microphone. The power consumption is 45 W. Power requirements are 100 to 130 V ac/60 Hz. The unit weighs 38 1/4 lb. It is 19 1/8 in wide, 7 in high and 15 in deep. The price range is from about \$1000 to \$1300. Blank video cassettes are available in two lengths — 2 h and 4 h — priced at about \$17.95 and \$24.95. The optional black-and-white camera (Model BW001) is priced at about \$299.95. A deluxe model (BW002) has a zoom lens and through-the-lens viewfinder. It is priced at about \$399.95. The microphone (Model MC001) is priced at about \$10.95.




A high-speed graphic television display system for applications ranging from black-and-white graphics to full color image processing has been announced by Grinnel Systems Corp., 2986 Scott Blvd., Santa Clara, CA 95050. The system, designated the GMR-27 is modular and comes in three basic configurations — black-and-white or color graphics and alphanumerics; gray scale and pseudo color imaging; and full color image processing. Each can be customized for specific applications. The GMR-27 has plug-compatible interfaces for most popular computers and uses high-speed, 4K MOS random access display memories. Memory capacities of up to 27 512 x 512 resolution planes are available. Standard features of the system include alphanumerics and a complete graphics package; image scrolling; byte unpacking; memory readback; and diagnostic self test. The GMR-27 can also have a plug-in video digitizer that allows users to grab, digitize and store a full video frame in real time. Other options include zoom magnification; split screen display; alternate image toggling; image processing arithmetic capability; function memories; and trackball or joystick controlled cursors. Prices for the GMR-27 start at \$5450 for a basic two-channel black-and-white graphics system and



The SelectaVision videocassette recorder offering a choice of recording, either two hours or four hours of program material, live or off-the-air, on a single cassette has been announced by RCA Corp., 30 Rockefeller Plaza, New York, NY 10020. The unit can be attached to any television set, either color or black-and-white and can store up to four hours of television programs for playback at a later time. By using a built-in clock/timer, programs can be recorded automatically if the user is not present or a program on one channel can be recorded while the user is viewing another channel. Live re-

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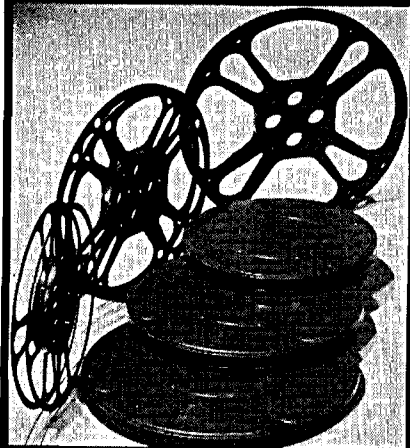
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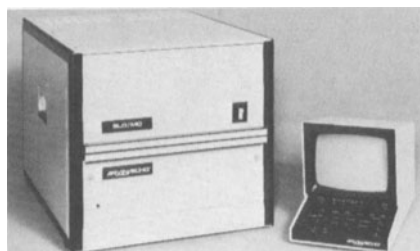
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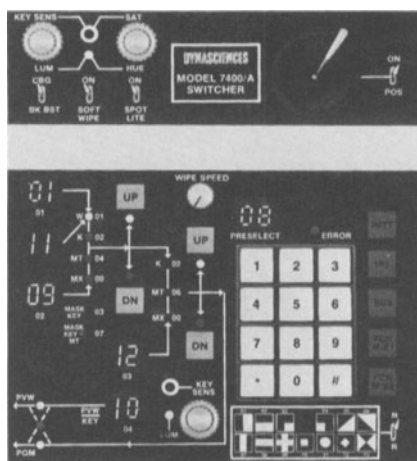
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A professional slow-motion machine, the SLO/MO-1, has been announced by Arvin/Echo, Echo Science Corp., 485 East Middlefield Rd., Mountain View, CA 94043. Features include high-band color; electronic cuing; digital comb filter; digital DOC and chroma invert. The system is said to be so immune to vibration that the picture remains unaffected by motion. Arvin/Echo has applied the design of its EFS-1 head/tape drive system and added a digital processor, including a solid-state field memory. The machine weighs less than 125 lb. The price is under \$50,000.



A new, compact program switcher, Model 7400/A, has been announced by Dynasciences, Township Line Rd., Blue Bell, PA 19422. Measuring 7 in wide by 8 3/4 in high, the control panel is small enough to mount beside a video program monitor on a single 19-in rack. The reduction in panel size is made possible through the use of a numerical keyboard for selecting video inputs, wipe patterns, buses and effects. LED numerical readouts display the video input selected for each bus as well as the selected wipe pattern. Other LED indicators show effect and bar status. To produce an effect, the operator pushes one of the "up" or "down" buttons, keeping the button depressed to complete the wipe. LED indicators show when the wipe bar is fully up or down and a wipe speed knob controls the speed of the effect. All other controls are the same as on a standard switcher. Model 7400/A offers 26 wipes plus six other effects. The price is \$8400.

A high-performance Beridox tape for 3/4-in U-Matic videocassettes has been announced by the Magnetic Tape Division of Fuji Photo Film U.S.A., 350 Fifth Ave., New York, NY 10001. The new tape, called Fuji Beridox KCS, is available in 20-min lengths as KCS-20 and

10-min lengths as KCS-10. Designed for critical applications in ENG, industrial and educational fields, the new tape uses an exclusive formulation of berthollide iron oxide said to provide the advantages of chromium dioxide and iron oxide coatings without their disadvantages.

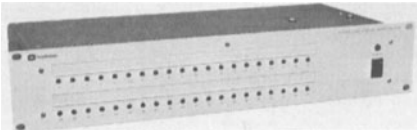


A digital time base corrector designed specifically for heterodyne VTRs has been announced by Consolidated Video Systems, 1255 East Arques Ave., Sunnyvale, CA 94086. Designated the CVS-516 it is of broadcast quality and is compatible with all current heterodyne VTRs. Applications include ENG, teleproduction and studio VTR backup. Features include correction of chroma/luminance delay problems, a 3 dB chroma noise reduction, velocity compensation and color dropout compensation. The unit also has the CVS exclusive Gyrocomp circular memory that can handle severe gyroscopic distortions without picture breakup. Other features include a broadcast stable gen lock sync generator, automatic advanced VTR sync and an adjustable proc amp. Base price of the CVS-516 is \$10,500. Options include a plug-in image enhancer/noise reducer printed circuit card that reduces luminance and chroma noise and improves subjective resolution. Also optional is a 16-line window plug-in. The CVS-516 weighs 25 lb, is 3 1/2 in high, uses 175 W and fits a standard 19-in rack.

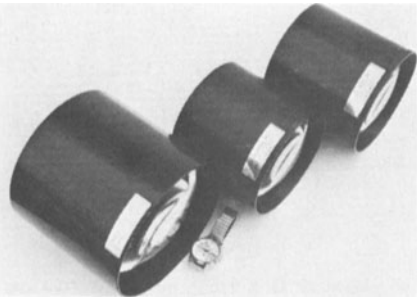


The PAL/SECAM version of the Crisp-Matic image enhancer and noise reducer has been announced by Telegen, 800 Welch Rd., #354, Palo Alto, CA 94304. The device, intended to crisp the overall color image on videotape recordings, is manufactured by Yves Faroudja, Los Altos, Calif. The Crisp-Matic is said to improve SNR; to reduce crosstalk; to correct luma/chroma delay; and to minimize group delay. The circuitry developed to crisp the image and minimize crosstalk and group delay effects was developed solely to correct "color under" deficiencies without imposing further operational limitations by introducing unnecessary signal modification. Applications include VTR dubbing; quad transfers; cassette VTR replay; large screen display; and electronic newsgathering. The price is \$2500.

Microwave signal generators incorporating coaxial line cavity oscillators with plug-in Gunn diodes to reduce size and weight have been announced by Flann Microwave Instruments Ltd., Dunmere Rd., Bodmin, Cornwall PL31 2QL, England. The generators operate from 40 to 60 Hz power supplies at voltages of 100 to 125 V (in 5-V steps) and 200 to 250 V (in 10-V steps). They consume 75 VA. The ambient temperature range is from 5 C to 40 C. They provide frequency coverage from 7.5 to 18 Hz in overlapping bands. Model 399 covers 7.5 to 13 GHz; Model 399/X, 8.2 to 12.5 GHz; Model 400, 8.2 to 15 GHz and Model 401, 12 to 18 GHz. Prices range from £2300 to £2500 (\$4025 to \$4375).

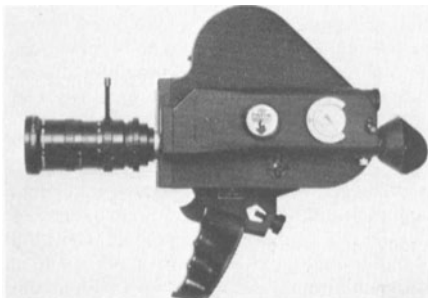


A status light display, the SM-1030, designed to operate with the firm's TVS/TAS-1000 video/audio distribution switcher has been announced by TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115. The SM-1030 is a tally device which monitors the TVS/TAS-1000 party line and identifies the output users through the use of LEDs. For example, if user 5 selects the source being monitored by the SM-1030, number 5's LED will light up. The identification strip on the front panel allows the operator to label appropriately the corresponding lights for identification of the users. The unit can be modified to display 40, 80 or 100 outputs by changing the front panel. It interfaces with the party line by a BNC connector with a standard piece of RG-59 coax. The unit contains an internal dip switch enabling it to be programmed to monitor any source in the system. The price is \$795. A lever wheel that can be placed on the front panel in lieu of the dip switch is available as an option.



New television projection lenses announced by TeleVue Optics, Inc., 15 Green Hill Lane, Spring Valley, NY 10977, include the MK II, MK III and MK IV. The lenses are all glass designs with a high refractive index and fully color corrected. They are hard anti-reflection-coated for maximum durability. The housings are of black anodized aluminum. The lenses are computer-designed for picture sharpness, contrast and brilliance. Any projection screen size can be used with these lenses. The MK II has a focal length of 13.5 in,  $T/2.7$ ,  $f/2.6$ . The barrel diameter is  $5\frac{3}{8}$  in; the barrel length is  $5\frac{1}{8}$  in. The lens has three elements. The price is \$180.

The MK III has a focal length of 12 in,  $T/2.5$ ,  $f/2.4$ . The barrel diameter is  $5\frac{3}{8}$  in, the barrel length is  $4\frac{3}{4}$  in and the lens has three elements. The price is \$195. The MK IV has a focal length of 11 in,  $T/1.9$ ,  $f/1.8$ . The barrel diameter is  $6\frac{1}{8}$  in, the barrel length is 6 in and the lens has four elements. The price is \$1000. The lenses shown above are (from left to right) the MK IV, the MK III and the MK II.



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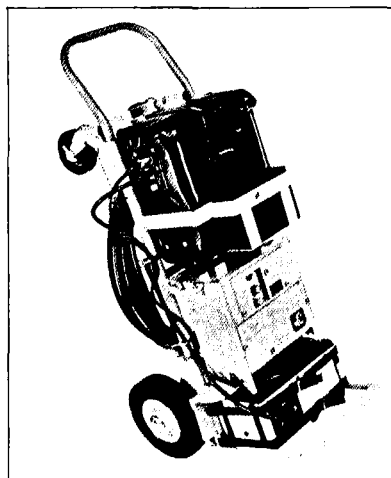
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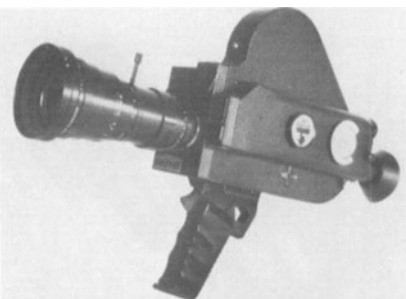
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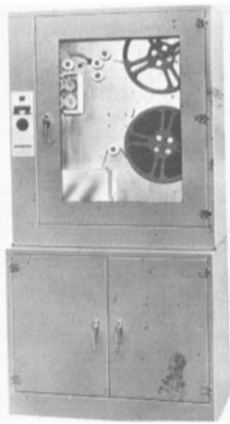
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been announced by Karl Heitz, 979 Third Ave., New York, NY 10022. The cameras have C mounts and measure 9 × 3.4 × 6.9 in. They weigh 6 lb. The ground-glass image with cross hair is magnified 20X. The ocular is adjustable from +2 to -2 diopters. An electronic behind-the-lens light meter with a CDS cell indicates over-exposure with a large red LED and under-exposure with a small red LED. There is a choice of settings from 10 to 400 ASA and 8 to 32 frames/s with a footage counter that subtracts down to zero. The cameras accept 100-ft daylight loading reels. An attachable 400-ft magazine with an integral 12-V motor provides uninterrupted filming of 11 min (16mm) or 2 × 20 min (DS8) at 24 frames/s. A built-in sound synchronization generator for one pulse per frame is also suited for electronic flash. Power for the brushless electric motor is supplied by eight 1.5-V batteries or by an external 12-V dc battery. Both the Pathé Report 16mm and the DS8 are priced at \$1395 without the lens. With an SOM Berthiot-Zoom 6 × 17-85mm f/3.8 lens the 16 mm camera is priced at \$1995. The DS8 is priced at \$1895 with an Angenieux-Zoom 13.5 × 6-80mm f/1.2 lens. The 400-ft magazine is priced at \$499.



The Angenieux 15 × 6 to 90 mm f/1.2 zoom lens has been announced by Karl Heitz, 979 Third Ave., New York, NY 10022. The lens covers an extreme range from wide angle to telephoto with one sweep. It is supplied for the Pathé electronic and spring wound double super-8 cameras for 100-ft reels and 400-ft magazines but it also fits the Beaulieu and other super-8 cameras with a C mount. The price is \$699. The Pathé Report electronic double super-8 camera equipped with the lens as shown above is priced at \$1995.

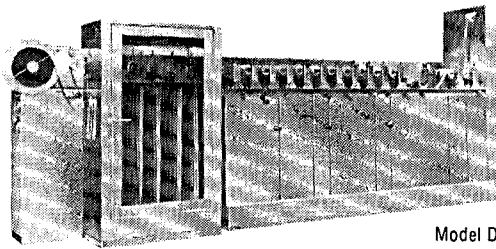
A versatile adapter, a preamp/limiter with applications in professional audio, has been announced by RTS Systems, 4167 Fair Ave., North Hollywood, CA 91602. Designated the RTS 1400, the gain is continuously variable enabling the unit to be used to boost low-output microphones for driving low-gain mixers, to boost mike outputs to line level, or to buffer medium level lines. The 1400 has a built-in limiter enabling it to be used to prevent overdrive of individual mike or line inputs while maintaining high average levels. The 1400 has a fast rise time with, reportedly, no overshoot even with 20 dB of limiting applied. The circuitry is stable and it is reported that it does not oscillate or ring despite highly capacitive loads. Applications include fixed or portable sound reinforcement, location recording, remote broadcasting and broadcast production as well as industrial and scientific test laboratories. Low impedance enables the unit to drive microphone cables of 1000 ft or longer with no significant loss of high frequencies, also improving the SNR by keeping the signal well above the noise level. The 1400 is battery operated, one pair of 9-V alkaline batteries forming a bipolar supply with an operating life of about 100 h. The 1400 is priced at \$185.



**Neuvator II**, an automatic 16mm film cleaner, has been announced by Neumade Products Corp., 720 White Plains Rd., Scarsdale, NY 10583. The machine is designed for unattended operation. It has a non-sprocket drive, variable speed control, a built-in exhaust system, an electronic brake, indicator light switches and a see-through plexiglass door. The machine can clean, polish, wax, renovate and render film anti-static in one motor-driven operation. An immersion liquid bath treatment removes dirt, oil, etc., and prevents brittleness, dryness and edge curling. The cleaned film can be rewound on the machine as a reversible drive motor is used. The Neuvator II is priced at \$1960. With an all-steel welded base containing the reservoir drain line and providing storage for supplies the price is \$2160. Other models are available for 35mm, 8mm and a combination 16 and 35mm film cleaner.

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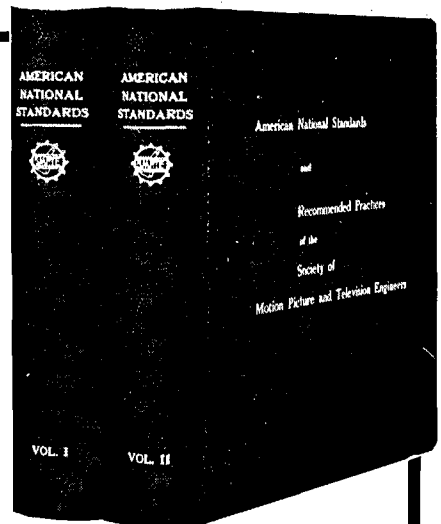


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