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BVW-40 Betacam Recorder/Editor

A 1-in. special application VTR, the BVH-2500, is one of the developments recently announced by Sony Corp. of America, Sony Dr., Park Ridge, NJ 07656. It features still-frame recording and playback without pre-roll. Designed for still-frame, animation, mass storage, and retrieval systems, The BVH-2500 has a 200,000-frame-store capability and can perform time lapse recording. It can also function in a studio as a conventional 1-in. VTR.

The MCI/Sony JH-110B-3-LB Audio Layback system for video is a post-production recorder for the transfer of audio to 1-in. Type-C videotape. It is used to optimize frequency response, signal-to-noise ratio, and wow and flutter in the audio portion of the final edited videotape.

Additions to the Betacam® 1/2-in. camera/recorder system include a 1/2-in. editor/recorder, the BVW-40. It interfaces directly with the original Betacam BVW-10 player, and also with the BVH-2000 series 1-in. VTRs, BVU-800/820 series U-Matic VTRs, and BVE-800/3000/5000 series editing controllers. Features include time-code insert, assemble selection, preview/review in the auto mode, frame-by-frame forward/reverse trim, selectable pre-roll time, and auto edit in-out functions.

A new 2/3-in. tube design utilizing mixed field technology has been incorporated into the BVP-3 Betacam camera. As a result of the new tube design, the BVP-3 weighs only 9.5 lb, and delivers a picture with 650 lines resolution. It has a signal-to-noise ratio of 58 dB and consumes less than 20 W.

The BVW-20 is a portable playback machine for the Betacam system designed to provide immediate playback capability in the field.



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TX-710 portable TV camera

The TK-710, a three-tube, prism-optics portable camera designed for broadcasters and television program producers, has been announced by RCA, Commercial Communications Systems, Rt. 38, Bldg. 206-1, Cherry Hill, NJ 08358. The camera head, including viewfinder, weighs 11.6 lb. The system includes a 14 X 10 Fujinon zoom lens, ac power supply, and a quick-release shoulder mount. High-index prism optics with integral bias lighting, along with Saticon tubes, are said to provide quality pictures even under poor lighting conditions. Switchable gain boost of +6 and +12 dB can be used to provide usable pictures down to 13 fc.

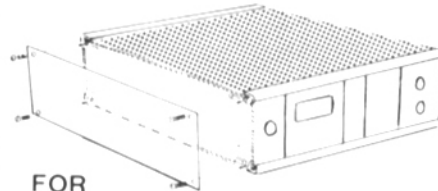


Everex GP-8D video camera

The Everex GP-8D, a portable color video camera, has been announced by Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797. The camera measures 2.6 X 8.6 X 14.6 in. and weighs 3.5 lb. The camera uses a 1/2-in. Saticon based on a single-frequency separation system, and an all-electronic 1-in. CRT viewfinder. Other features include a built-in microphone, and a removable, boom-type, unidirectional electret condenser microphone. The camera can function at illumination less than 60 lux (6 fc).

The 30-mm diode-gun Leddicon pickup tubes manufactured by EEV Ltd., are offered by RCA, Commercial Communications Systems, Rt. 38, Bldg. 206-1, Cherry Hill, NJ 08358, as an optional replacement for the standard 30-mm tubes in the RCA TK-47B automatic studio camera, as a result of an agreement between the two companies. The Leddicon tubes (P8440 and P8441) are mechanically interchangeable with the standard 30-mm tube and provide higher resolution. In typical specification tests, the Leddicon tube yields a 75% depth of modulation at 400 television lines as opposed to 60% depth of modulation in standard 30-mm tubes. The Leddicon's diode-gun also reduces beam resistance and improves lag performance over standard 30-mm tubes.

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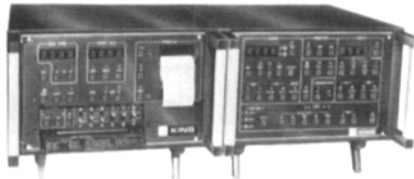


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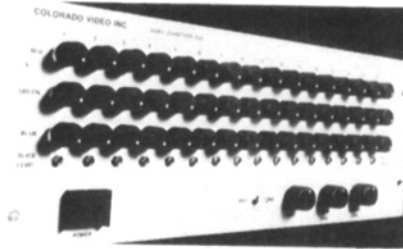
A digital time-base corrector, the TBC-80, designed as a companion to the VPR-80 videotape recorder, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94083. The TBC-80 offers the flexibility of playback correction for 1-in. Type-C recorders as well as 1/2-in. M-format recorders and 3/4-in. recorders. The two-channel time-share capability of the TBC-80 provides time-based correction of ENG and EFP equipment as well as wide-range performance with the VPR-80.



Verifier 101 and monitor 102

A programmable videocassette dropout verifier, and a companion unit, the chroma/audio quality monitor, have been announced by King Instrument Corp., 80 Turnpike Rd., Westboro, MA 01581. The verifier, Model 101, uses a microprocessor to evaluate videotape dropouts. It has a dual input/output capability which enables alternate record and replay using two separate recorders. The associated monitor, Model 102, uses RMS detection circuits for all audio measurements. These measurements include sensitivity, noise, and

maximum and minimum uniformity. Several audio and chroma test parameters may be displaced and/or printed out. Both units are portable and have removable handles to permit rack mounting.



Video quantizer 606H

A video quantizer, the 606H, a device designed to synthesize color signals from different shades of gray has been announced by Colorado Video, Inc., P.O. Box 928, Boulder, CO 80306. The unit operates on the input video signal by selecting from 1 to 16 separate narrow "slices" which are adjustable to any amplitude level between black and white. Selection of the thresholds may be linear, logarithmic, antilog, or any other arbitrary basis. The control panel contains adjustments which allow the operator to vary the slice threshold as well as the color output from each channel. A wide range of color variations may be produced by adjusting the amount of red-green-blue sent to the output from each channel.



Color monitor PCM-519-4

A professional color monitor, the PCM-519-4, has been announced by Lenco, Inc., 300 North Maryland St., Jackson, MO 63755. The monitor provides 650 lines of horizontal resolution using a 19-in. precision-in-line 0.47-mm dot matrix CRT. Features include a switchable pulse-cross and underscreen, comb filter, blue gun only, monochrome, two NTSC inputs, RGB inputs, internal/external sync, manual degauss, and a stable high voltage using a nonscan derived method. The controls for brightness, contrast, hue, and chroma are preset front-panel-operated push-pull action. An optional rack slide is available.

A digital video still store production system called the ESS-3 has been announced by Ampex Corp., 401 Broadway, Redwood

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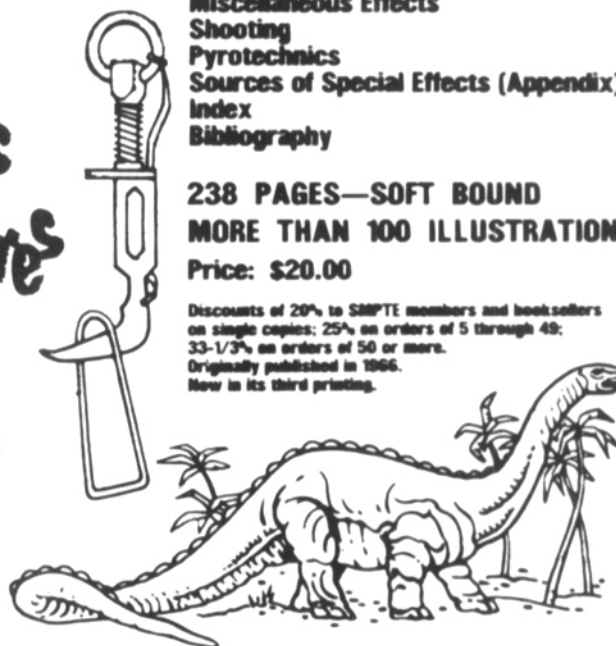
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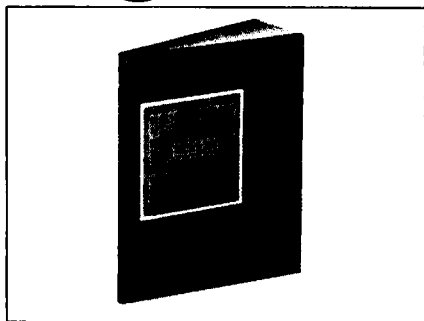
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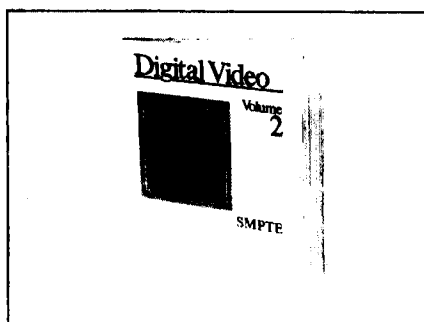
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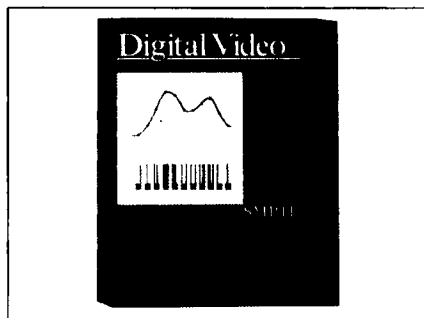
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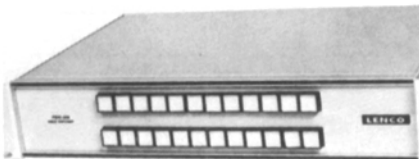
City, CA 94063. Designed to store and manipulate images, it is intended for use mainly by networks, television stations, production houses, and cable program producers. The ESS-3 can be configured with a single disk drive, or it can be designed with five drives. The basic system has an access station, a single disk drive, and rack-mountable chassis to provide a single video output. In its most sophisticated configuration, the ESS-3 can have five disk drives, several access stations, and an electronic chassis to hold multiple frame stores and provide three video outputs. Storage capacity is 400 full-frame images on one disk, with a maximum capacity of 2000 on-line stills with five drives. The images can be recalled from the disk drive in less than a second.

Up to 16 reduced size images can appear on the screen almost instantly. Full color stills can be put into the system with a color camera. Frame or field grabbing of video is available, together with the ability to build video images on the screen.

Two new models of the Athena 16-mm telecine film transport equipment have been announced by the Athena Division of L-W International, 6416 Variel Ave., Woodland Hills, CA 91367. Designated the Athena 4500 and 6000 models, they are reported to meet most professional telecine requirements with 24, 25, or 30 frames/sec projection rate, compatible with the current video-scan rate.

Both models provide automatic phase-locks to NTSC, PAL, or SECAM field rates and also provide still and slow-motion frame rate projection with unlimited hold time in the still-frame mode.

The Athena 4500 has a film capacity from 50 to 2000 ft, while the 6000 accommodates up to 5000 ft of film. The 6000 also provides dual lamps, allowing automatic changeover in less than 1 sec in both the projection and exciter lamps. Both models have optical and magnetic playback, and rack and pinion focusing with easy projection alignment provided by four leveling screws.



Vertical interval switcher PSW-469

The PSW-469, a 24 × 1 dual output vertical interval switcher, has been announced by Lenco, Inc., 300 North Maryland St., Jackson, MO 63755. Its companion, the PSR-469, is a 24 × 1 self-contained unit that remotely controls the PSW-469. Remote control is accomplished through digital pulse train from the PSW-469. The PSR-469 can be located up to 1000 ft from the switcher location. The units are each 3½ in. high and 19 in. wide.



Video sequence processor

The Video Sequence Processor (VSP),™ a computer system designed for the creation and processing of moving video sequences, has been announced by Picture Element Ltd., 635 Waverley St., Palo Alto, CA 94301. The system combines real-time digital recording and display, support for a variety of video formats, and computing capability. The system can digitally record up to 8 min of moving image sequences on computer-accessible media in real time; computer-process stored sequences or computer-generated image sequences frame-by-frame; and display these stored moving-image sequences in real time, slow motion, or still frame.

The VSP can record and play back a variety of video and graphics formats: 525, 625 lines/frame at 25, 30, 50, and 60 frames/sec; 1125 lines/frame at 25 and 30 frames/sec; 512 × 512; and 1024 × 1024 at 25, 30, 50, and 60 frames/sec. All these formats can be monochrome, composite (NTSC, PAL, SECAM), component (Y,I,Q and Y,U,V), or full-color.

The VSP can be used for computer-generated image applications such as video animation, television post-production, video special effects, previewing film animation, and scientific modeling. With the VSP, each frame of an animated sequence can be viewed in real time, slow motion, or still frame.

Picture Element Ltd. is a newly established firm, and the VSP is the first product the firm has developed and introduced.



Helico IIa camera stabilization

The Helico IIa camera stabilization device having a positive adjustment system to compensate for varying camera weights has been announced by Image Devices International, 1825 N.E. 149 St., Miami, FL 33181. The adjustment capabilities enable the operator to compensate for various changes in altitude of a helicopter occurring during flight. The Helico systems can be easily installed on a helicopter and can also be used on boats, automobiles, and other moving vehicles. Counterbalance weights are included.



Schneider zoom lens

Schneider 14X ENG/EFP television camera lenses, offering coverage from super wide angle to long telephoto, have been announced by Tele-Cine Corp., 400 Crossways Park Dr., Woodbury, NY 11797. The lenses incorporate all the features required to match the performance parameters of most TV cameras. For example, to match the Sony BVP-3, the lens can switch to the camera's display of focal length in the viewfinder. Switching circuitry in the lens shows the cameraman whether the range extender is in or out so he can correct for shading. It also provides feedback control for both focus and iris.

Other features include a zoom pistol grip with built-in iris control which also has controls for VTR on/off and video return, operable with a thumb's touch. The iris and zoom electronic components are in a weather-resistant housing to prevent moisture-caused electrical shorts.

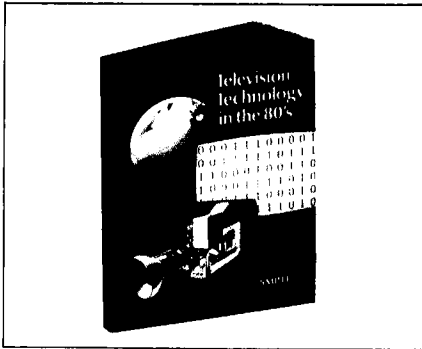


TVL-800-7E microwave link

The TVL-800-7E ENG microwave link, has been announced by NEC America, Inc., 130 Martin Lane, Elk Grove Village, IL 60007. Features include advanced electronic components, such as C-MOS and FET devices, and simplified circuit designs. It is designed especially for ENG applications in difficult situations, even in rainy weather. The device is light in weight; the transmitter and receiver each weigh 4.4 lb. The double heterodyne method of modulation employs an 800-MHz SAW oscillator at the first local stage of the transmitter and at the second local stage of the transmitter. It is adaptable for use as a 70-MHz IF transmission system.

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A Format for Digital Television Tape Recording, John L. E. Baldwin, Independent Broadcasting Authority, Winchester, England

Digital Video Tape Recording with Increased Packing Density—Progress Report, Masahiko Morizono, Hirofumi Yoshida, Yoshitaka Hashimoto and Takeo Eguchi, Sony Corp., Kanagawa, Japan

Aspects and Considerations About the Mechanical Format of Digital VTRs, Dieter K.E. Pohl, Robert Bosch GmbH, Darmstadt, West Germany

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Formats for Digital Video Tape Recorders, D. Dolby, M. Lemoine, M. Felix, Ampex Corp., Redwood City, Calif.

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A Super Camera Using Saticon & Built-in Computer Control System, Takashi Sueoka, Japan Broadcasting Co., Tokyo, Japan

Advances in EFP Camera Design, John O. Ryan, Ampex Corp., Redwood City, Calif.

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Worldwide Standardization—Now or Never, Thomas Robson, Independent Broadcasting Authority, Winchester, England

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