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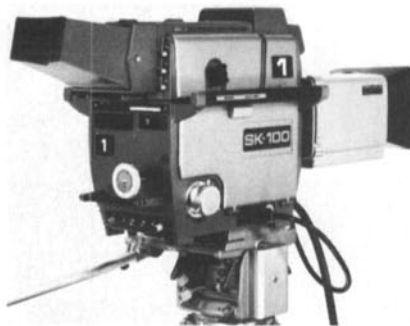
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New Products & Developments



A new television camera, the SK-100, a computer-controlled studio camera, has been announced by Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797. It can accept a variety of pickup tubes including 30-mm Plumbicon, 25-mm diode gun, and 25-mm Saticon. Features include a resolution in excess of 600 lines, a better than 54-dB SNR and sensitivity of $f/5.6$ at 200 fc. Other features include ABO (automatic beam optimizer); tiltable and rotatable viewfinder; an enhancer that automatically adjusts detail according to picture pattern; genlock; VIT color bar generator; H & V sweep inversion; LSI processing; and triax control. An optional microcomputer provides complete setup including all registration functions, white and black balance, and shading. The basic camera with tubes but without lens is priced at approximately \$75,000.



A new 1-in high band videotape recorder, the BVH-1100, has been announced by Sony Video Products Co., 9 W. 57 St., New York, NY 10019. It is said to meet all national and international specifications agreed to for Type C Format NTSC 1-in VTRs. Optional accessories include Dynamic Tracking which provides for guardband noise-free video playback of on-air quality with selectable variations in playback speed of approximately $1/4$ speed in reverse,

through still, and to twice forward speed. This capability is achieved through the addition of a Bimorph Dynamic Tracking head to the unit. The Dynamic Tracking option also allows for transient-free programmed speed changes, permitting the tape speed to be automatically shifted to any predetermined speed during playback without affecting the quality of the video signal.

Features of the BVH-1100 include an integrated confidence head which provides a high-fidelity video playback signal for both video and sync channels so that video quality during recording can be simultaneously monitored on both channels. The confidence head can also provide backup for the main record playback head. The machine is also equipped with fully automatic editing features.

When coupled with the BVT-2000 digital time base corrector, the BVH-1100 acquires more versatility through the use of the Bidirex search control. Using the Bidirex and the BVT-2000 a recognizable color picture can be maintained during a forward speed search up to 10 times normal speed. A black-and-white picture is recognizable at up to 50 times normal speed in both forward and reverse modes. Price of the BVH-1100 with the time base corrector (BVT-2000) is \$71,000.

Optional accessories other than Dynamic Tracking include Dynamic Tracking remote control, a plug-in SMPTE time code reader/generator, and others.



The BCN 100, an automatic multicassette VTR designed to serve as a high order extension to the broadcast quality BCN VTR system has been announced by Robert Bosch GmbH, Geschäftsbereich Fernsehanlagen, 6100 Darmstadt, Robert Bosch Str. 7, West Germany. It provides random access to 32 cassettes with up to 30-min playing time each and a choice of three tape decks, thus permitting many new production applications in addition to news or commercial insertion. The BCN 100 records, edits, and plays its own cassettes or processes those previously recorded on the BCN 5 cassette VTR (*Journal*, p. 276, Apr. 1979). Price range for the BCN 100 is about \$300,000 to \$400,000.

Also announced by Robert Bosch was the

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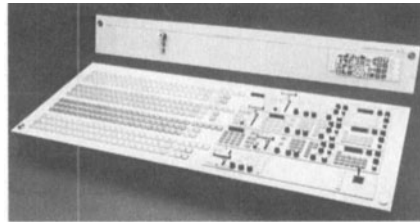
Many of the kits, like this one, have been in continuous use through rental houses for eighteen years. And you know how rental gear gets treated. None of these veterans will win a beauty contest, but they're still going strong. That's because we built them strong. Lowel specified a lot of high-resilience aircraft aluminum, a welded chain, and special spring-loaded socket that has provided unfailing electrical contact—for eighteen years.

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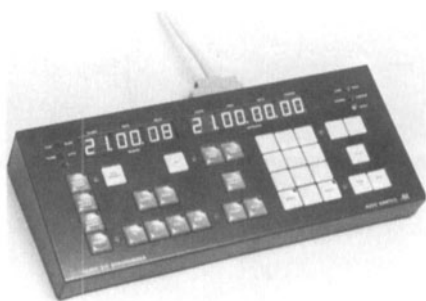

lowel[™]

KCP 60 broadcast color camera for studio or field use. It uses 2/3-in Plumbicons and provides automatic beam control giving up to four iris stops overload protection. Full studio control and monitoring facilities are provided. The price is about \$50,000.



The 300 Series television production switching system (shown above) and the 410 Series audio routing system have been announced by the Grass Valley Group, P.O. Box 1114, Grass Valley, CA 95945. Central to the design concept for the 300 are no-compromise video performance, ease of operation, fully integrated digital video effects, and interface flexibility. Four input buses are provided to each mix/effects (M/E) system with two separate input buses for video and title key sources. Each M/E can be reentered into every other in any order. Features include a bordered quad split from each M/E system, new wipe patterns including matrix wipes, rate control positioner, and expanded rotary and pattern modulation control. Each M/E contains a built-in effects memory (E-MEM) system as standard equipment. Also announced was a second generation Digital Video Effects (DVE) Mark II system utilizing the new NEC DVP-16 Digital Video Processor which was designed as a companion unit to the 300 switcher for expanded effects capability. Basic price for the 300 switcher with 24 inputs is \$95,500. The basic DVE system for NTSC operation is \$125,000. Various options are available.

The 410 Series is a stand-alone 32-in/16-out audio routing system. It can provide expansion to 32-in/64-out or even larger formats without the need for input fan-out distribution amplifiers. The basic price is \$12,765.



The Qlock, a synchronizer combining synchronization computation, integral SMPTE/EBU generator, cycle and adaptive locate programs, and full machine transport controls, has been announced by Audio Kinetics Ltd., Verulam Rd., St. Albans AL3 4DH, England. Once a tape is loaded the operator can start, process, and complete all video/audio sweetening or 48-track working, etc., from one control panel. The Qlock system uses tachometer information from the audio machine in high speed wind, changing over to SMPTE code reading when the tape has reached less than twice play speed. Accurate SMPTE code auto-location can be achieved without the need for tape-to-head contact at high speed and a special wideband amplifier.

On a video machine the tachometer pulse is

derived from the video control track. Autolocation software is specifically written for individual machine types, lessening locate times; all such software is intelligent, allowing adaptive learning of the machine/tape mass ballistics with subsequent decrease in location time on successive searches. Any pair of the 10 locate memories may be stored in the cycle memory as the start and finish SMPTE code points for the cycle programming. Autolocation/play/relocation/play ad infinitum allow hands-off control of both machines over any tape area requiring repetitive work. Price of the Qlock 210 is about \$13,400.



The Minolta Luminance Meter 1° (shown above) a spot-type meter that measures reflected light in foot-Lamberts, has been announced by Minolta Corp., 101 Williams Drive, Ramsey, NJ 07446. The new meter is designed to measure reflected light from the surface of motion-picture screens, cathode ray tubes, LED displays, and many other sources. It can also be used to determine a luminance ratio, i.e., the range of contrast in a particular scene. The meter has a convenient hand grip and trigger and has a single-lens-reflex focusing system that can be aimed at a specific spot. It provides a bright 2.96x-magnified 9° circular view with a clearly marked 1° center spot.

A highly sensitive silicon photocell can measure flickering light sources and a specially designed circuit delivers an exact median light value by means of an LED display in the viewfinder. The measuring range is from 0.01 to 99,900 ft-L with accuracy within ±4%, ±1 digit in the last display position. The meter has a low flare factor of 1.5% and its spectral response falls within ±2% of the CIE relative photopic luminosity curve. The minimum measuring area is 15 mm at 1 m and 2.4 mm with close-up lenses. The Luminance Meter 1° is priced at approximately \$1000.

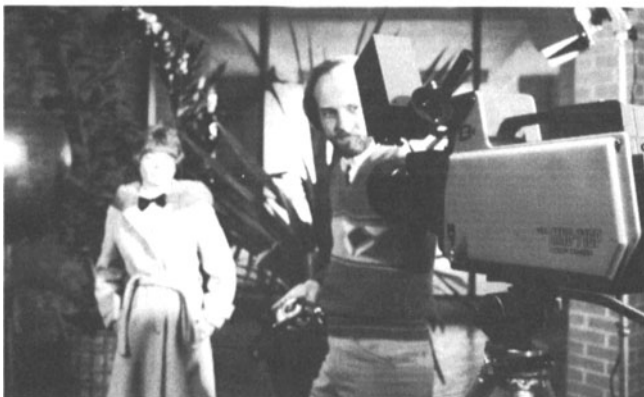
Also announced by Minolta was the Illuminance Meter which measures the amount of incident light in a room reaching an object in terms of lux or foot-candles. The meter contains a microcomputer and offers two measuring modes in addition to lux, i.e., lux multiples and brightness deviation between one light source and another stored in its memory. It has an easy-to-read liquid crystal display, and its silicon photocell receptor can be used apart from the body of the meter by means of a connecting cord for special metering applications. The meter has an analog output for monitoring and recording light measurements and its response time is selectable, allowing it to measure flickering light sources. Its range is 0.01 to 99,900 lx, 0.001 to 9,990 fc. The meter is accurate to within 4%, ±1 digit in the last display position. Its spectral response is

For KVII-TV in Amarillo and KVIA-TV in El Paso ... the ideal choice was MNC-71CP!

Marsh Media Ltd. looked long and hard when they set out to outfit their local ABC-TV affiliates in Texas with lightweight, portable ENG/EFP cameras. No simple task, considering the many video cameras currently on the market and the numerous claims made on their behalf.

In the final analysis — as Marsh Media Ltd. management well knew — dependable dealer service and full manufacturer/distributor support, with readily available parts and liberal warranty terms, were just as important as the particular features of the camera.

Marsh Media chose to go with Victor Duncan, Inc., the regional dealer for Cinema Products' line of NEC portable ENG/EFP video cameras.



"From an engineering standpoint, Cinema Products' backup program and Victor Duncan's dependable service completely free our hands from what has previously been a problem area," says Bill Canady, Marsh Media's Director of Engineering.

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"Our MNC-71CP cameras have seen considerable action since we've taken delivery of the three cameras initially ordered by Marsh Media," says Dan Garcia, Assistant News Director, KVII-TV. "The problems have been virtually nil, and with a little proper training, adjustments can be made in the field with the greatest of ease."

Alan Sheffield (right), Victor Duncan's Director of Video Sales and Rental, seen with Dan Garcia of KVII-TV during a recent video equipment seminar held at Duncan's Dallas headquarters.

"User training and preventive maintenance programs are the backbone of Victor Duncan's total commitment to the video industry," says Sheffield.



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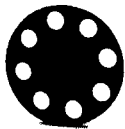
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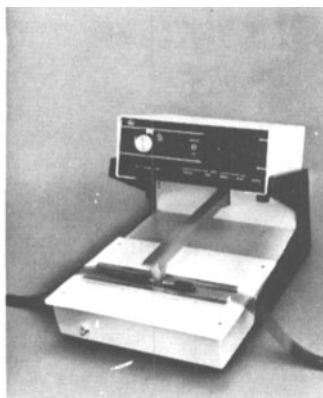
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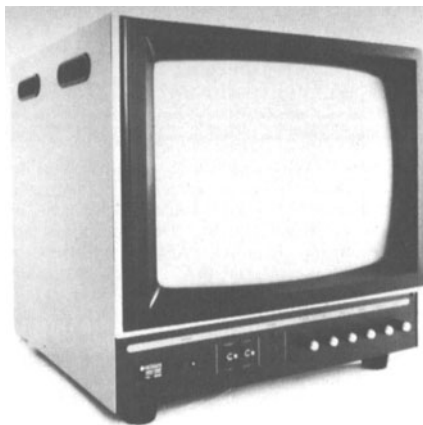
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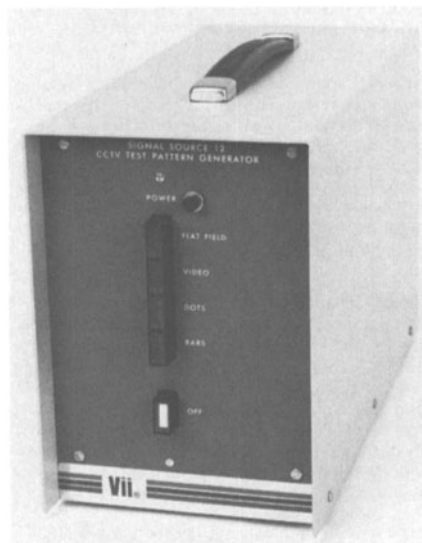
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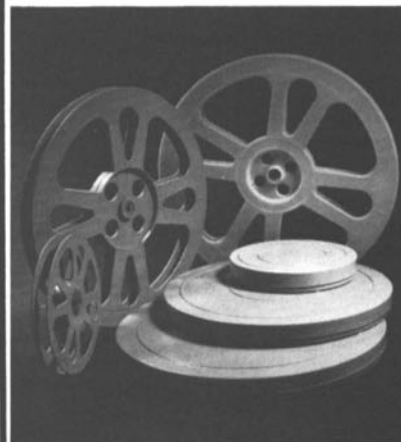
An 18-in color monitor, the CM-182, for NTSC, has been announced by Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797. It is designed for stability and good color tracking and a resolution in excess of 370 lines. It is intended mainly for broadcast and medical television applications. The price is \$2200.



Signal Source 12, a television test instrument designed for performance verification and maintenance of television equipment operating at the 525/60 scan rate, was announced by Visual Information Institute, P.O. Box 33, Xenia, OH 45385. It produces, on a single display, a video pattern with resolution, white reference, and gray scale segments for optimum setup of a display device. Bar, Dot, and Flat Field patterns can be used to evaluate scan size, linearity, and brightness uniformity. The instrument is small and lightweight and is suitable for portable field use or laboratory bench use. It operates from 120-V ac. The price is \$895.

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