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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.



The TK-760, a new compact color television camera, has been announced by RCA Broadcast Systems, Front and Cooper St., Camden, NJ 08101. The new camera uses the improved Saticon, a $\frac{2}{3}$ -in pickup tube. The TK-760, weighing 45 lb complete with lens and measuring 8 X 22 X 19 in can easily be transported to the field for on-location applications. It is weather-proofed and gasket-sealed for operation under a wide range of environmental conditions and is shielded against RF interference. The electronics are based on the RCA TK-76 portable ENG camera. Features common to those of the TK-76 include prism optics, "T" frame construction, shock-mounted optical system, bias light, automatic iris and automatic white balance. The TK-760, however, is designed for the more stringent needs of studio and field programming and includes control functions and other features necessary in teleproduction work. Automatic cable equalization provides full response signals by adjusting for variations in cable lengths and in cable characteristics. No adjustments to the camera are necessary when different cables are used in a studio or when cables are being changed for various field assignments. A 5-in diagonal tilting viewfinder provides ease of viewing for the camera operator. The TK-760 can be operated as a completely self-contained camera without a separate camera control unit with ac power fed directly to the camera through a power cord and video output carried by a coaxial cable. When remote control is desired in a multicamera setup or for other applications a camera control unit is used. The unit, connected to the camera head through a small 45 conductor camera cable, provides for control of iris black level and R & B white balance. Pushbutton switches are provided for bars, auto white balance, tally call, high sensitivity, auto iris and power. Price of the TK-760 is \$45,000. It is available for operation on NTSC, PAL-B,

PAL-M and SECAM television standards. A chroma keyer accessory which becomes an integral part of the camera when installed, is available as an option.

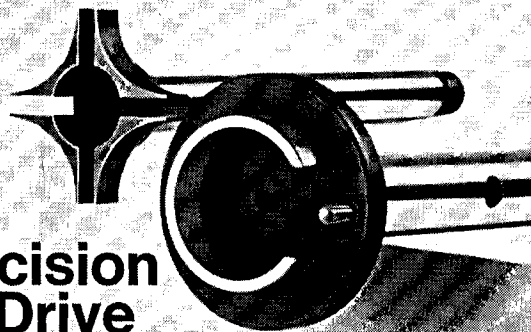


The DXC-1610 Trinitron® portable color camera has been announced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The camera, a single-tube system, features color purity, good resolution, edge focus and shading, low power consumption and compact size. The camera weighs 11 lb. It may be powered by rechargeable battery or ac current or it may be operated from the power source of portable video recorders. It is available with viewfinder, lens, filter wheel, built-in microphone and external mike jack. The price is \$6000.



The BVP-200, a portable color video camera and the BVU-50, a portable U-matic videocassette recorder, have been introduced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The BVP-200 is a self-contained portable color camera which requires no backpack. Designed for use in any ENG field situation the camera utilizes the newly developed 1-in MF (mixed field) Trinitron for the chrominance channel and a $\frac{2}{3}$ -in Saticon tube for the luminance channel. The combination is said to provide the high color quality and sensitivity required for low light level applications. When used in combination with the BVU-50, the camera has the capability of monitoring all critical modes of operation through the viewfinder.

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The BVU-50, a record-only unit, weighs less than 15 lb. When combined with the BVP-200 long-term recording is possible with complete operating status displayed in the camera viewfinder. The BVP-200 is priced at \$18,000 with a 10:1 auto zoom lens. The BVU-50 is priced at about \$3000.



The BVH-500 portable 1-in high-band videotape recorder has been announced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The recorder is small in size (360 mm wide, 177 mm high, 440 mm deep) and weighs less than 37 lb. It is battery operated and utilizes the NTSC high band direct FM recording system. It permits up to 60 min of recording time with Sony 1-in high-density videotape. A built-in record current optimizer allows adjustment in 1 to 3 min for quick field setup. An SMPTE time code generator can be plugged in to provide direct time code recording and playback capability. Price of the BVH 500 is about \$30,000.

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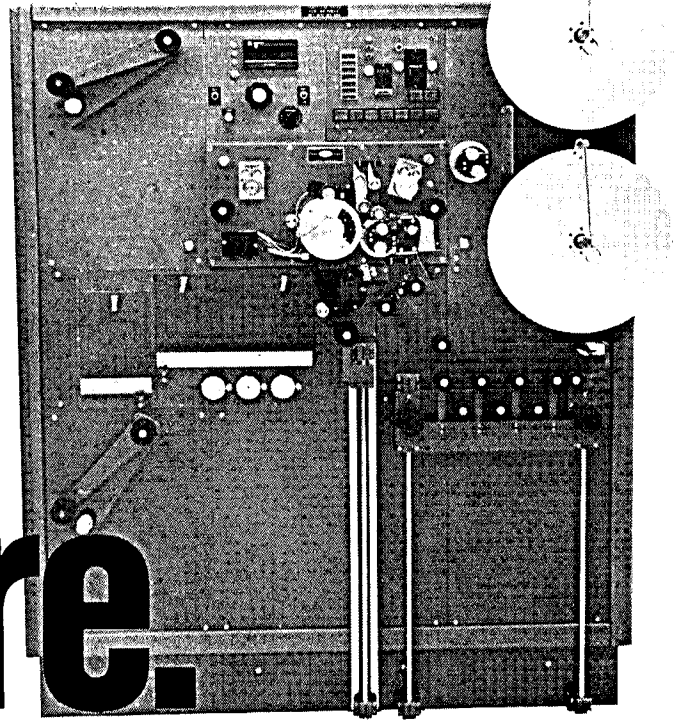
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The Tactec, a handheld portable radio used for on-the-scene communications among reporters, camera operators and other news personnel, has been announced by RCA Broadcast Systems, Camden, N.J. A special headset allows the camera operator to receive and send messages with the radio conveniently mounted on his belt. A remote "push-to-talk" switch allows the operator to transmit messages without removing his hands from the camera. In addition to news-site uses, the Tactec radios can be used for communications with the home base. In a vehicle, the radio slips into a battery charging unit where it operates much like a standard mobile radio. A power booster accessory increases the radio's transmitting power to 55 W in VHF and 35 W in UHF, thus providing extended transmission range. In a news control room, a Tactec becomes a base station radio when the portable

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PRESET MANUAL PRESET MANUAL PRESET MANUAL PRESET MANUAL

The Sony BVT-1000. Consider the logic.

A time base corrector is part of a system. A system that includes a video tape recorder.

Isn't it logical that a company which manufactures video tape recorders would have an inside track on what it takes to correct time base error in a VTR signal?

We're talking, of course, about Sony Broadcast.

The company that pioneered professional U-matic video recorders. And introduced the BVH-1000 1" High Band Video Recorder, that has the whole broadcast industry moving in a new direction.

Sony Broadcast has matched these impressive video recorders with an equally impressive digital time base corrector. The BVT-1000.

And before you face up to the difficult decision of which TBC is best for you, consider the logic of the BVT-1000.

1. The economy of a complete package. Sony Broadcast knows that line-by-line velocity compensation, complete video processing with advance sync, drop-out compensation, and the ability to handle both direct and heterodyne color are not just "options."

They're requirements. Requirements that broadcasters need and use in day-to-day operations.

So we make all these so-called options standard built-in features of the BVT-1000. And you save dollars in our greater production efficiency.

2. The advantage of superior technology. The economy of the BVT-1000 doesn't mean you sacrifice quality.

Far from it. The BVT-1000 incorporates unparalleled

technological excellence. Excellence demonstrated by a unique A/D converter that expands the effective number of bits per word, resulting in a higher signal-to-noise ratio than theoretically expected in an 8-bit system. Which leads to transparent picture quality.

With the Sony Broadcast BVH-1000 1" recorder, the BVT-1000 provides locked recognizable color pictures from still-frame to seven times normal speed. And to greater than thirty times normal speed in monochrome. So your editing techniques are faster and more critically accurate than ever before possible.

And for use with U-matic format recorders, the BVT-1000 offers special advantages. A wide 4H window and special anti-gyro circuitry compensate for wide errors and maintain both color and luminance stability.

Advance sync control allows phase correction using LED indicators at the TBC, for system integration. And the video level can be monitored by LEDs that show at a glance high or low level relative to one volt peak-to-peak.

3. The logic of a systems approach. If you are into electronic news gathering, or if you're part of the new revolution in 1" high band machines, the chances are very good that you're already using Sony recorders.

The BVT-1000 gives you an opportunity to add new logic to your broadcast equipment. The logic of an all-Sony system.

For full information about the BVT-1000 or any of the other professional video products in the Sony Broadcast family, call your nearest Sony Broadcast office.

Sony Broadcast

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Canada (416) 678-2730.

is plugged into a desktop battery charging unit. Price range for the Tactec is \$800 to \$1500 depending on the number of frequencies and options.



The EMI Surveyor III, a small monochrome camera for indoor use, has been announced by EMI Sound & Vision Equipment Ltd., Broadcast Division, 252 Blyth Rd., Hayes, Middlesex, UB3 1HW, England. Designed to complement the Surveyor series of closed-circuit cameras built for outdoor use, the Surveyor III cameras are self-contained with an integral synchronizing pulse generator giving a fully interlaced television picture. Automatic circuits maintain the quality of the output signal over a wide range of light conditions and there are no operational controls. The pickup tube is an 18mm vidicon but a silicon diode tube or a Newvicon may be used where the camera is to operate at lower light levels, in which case the automatic light control circuits are disabled. The camera is 97 mm high, 100 mm wide, 231 mm long and weighs 2.04 kg. The price is £195.

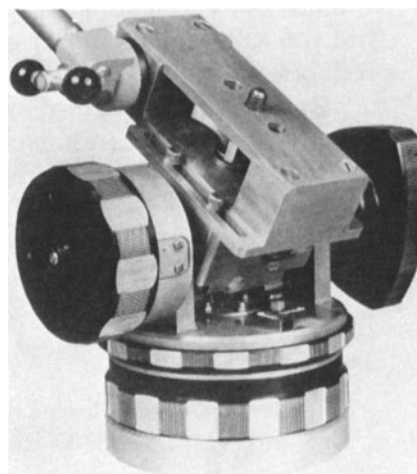


The Fujica ZM 800, a new single-8mm sound camera having an 8:1 zoom lens and total rewind capability, has been announced by Fuji Photo Film U.S.A., Inc., 350 Fifth Ave., New York, NY 10001. The lens is a Fujinon EBC 8-64mm macro *f*/1.8 zoom. It has been treated with the Fuji electron beam coating to minimize flare and to enhance color rendition. The rewind indicator can be set to mark 4 s of running time, sufficient to produce lap dissolves of both picture and sound. The camera has a total information finder system giving the photographer control over his camera and his picture at all times. Control over sound recording is provided by a sound level meter which indicates sound recording levels visually. It is supplied also with a monitoring car

phone for an additional check. The ZM 800 has two sound level settings ALC (automatic level control) for most filming situations and MANU (manual) for special recording requirements. The film speed is 18 frames/s. The shutter has a 220° opening to provide optimum light transmission for existing-light filming. Batteries are stored in the fold-down handle of the camera. The ZM 800 is priced at \$495.50. The price includes a unidirectional microphone, stand, wind screen, an eye-cup to provide more comfortable viewing, hand strap, lens hood, lens cap and a set of four alkaline batteries.



A new super-8 sound camera, the Eumig 31XL, offering several improvements over the earlier 30XL, has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. New features on the 31XL include an automatic fade-out/fade-in switch for both picture and sound; a choice of 18 or 24 frames/s; a full field dual beam TTL focusing system for sharpness; and a choice of automatic exposure control, +1 *f*/stop backlight correction switch or complete manual override of exposure. The 31XL is priced at \$395. It is equipped with a Eumig Vario-Vivonn *f*/1.3, 8.5 to 24 mm (3:1) zoom lens.



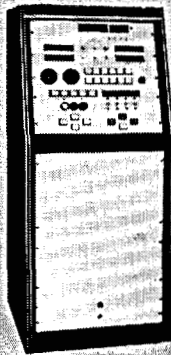
The Dunlin Fluid Pan and Tilt Head, Type 51 has been announced by W. Vinten Ltd., Western



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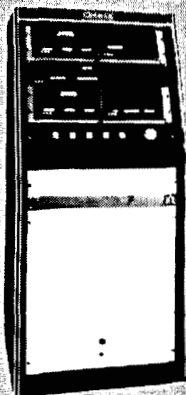
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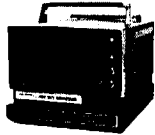
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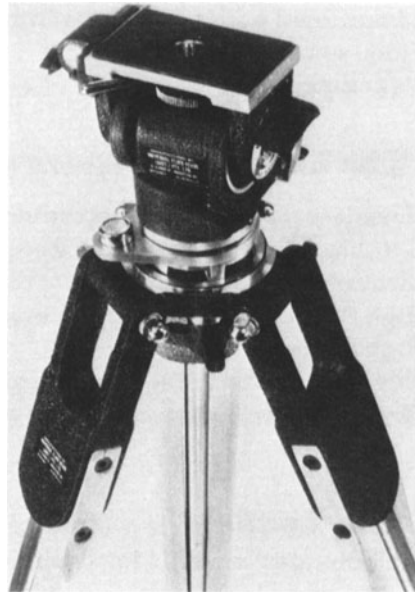
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Way, Bury St. Edmunds, Suffolk IP33 3TB, England. The low-profile head provides a smooth-acting true-balance tilt system instantly adjustable to different types and heights of cameras. Particular attention has been paid to the use of narrow-angle zoom lenses by the addition of a friction device. The system is supported by the PortaPed (*Journal*, p. 121, February, 1977). The Dunlin Fluid Pan and Tilt Head Type 51 is priced at \$1495. Also available is the TriTrack type 64 crabbing portable base into which the PortaPed can quickly clamp. The legs are adjustable so that tracking is possible through narrow openings. The price is \$1900. For a simple lightweight base the PortaSkid type 71 provides a simple fold-up, go-anywhere unit. The price is \$245.



The new Universal 808 fluid head and tripod has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The fluid head, weighing 2.8 lb, is designed for use with all super-8 cameras and lightweight 16mm and video cameras with low center-of-gravity, weighing up to 12 lb. Features of the Universal 808 fluid head and tripod include a quick-leveling claw-ball and cavity system; Autoslip™ self-adjusting breakaway free pan; and Hydralok™, a lock/tension device which assures safe locking in any tilt position. The fluid head and tripod permit smooth pan-and-tilt movements and can be operated in a temperature range from -4°F to +167°F without changing fluids. The Universal 808 fluid head and tripod is priced at \$300.



A new digital time base corrector (TBC) and standards converter for PAL-M has been announced by Consolidated Video Systems, 1255 E. Arques Ave., Sunnyvale, CA 94086. Designated the CV5-515 the TBC accepts monochrome or color NTSC or PAL-M signals from any heterodyne videotape recorder and produces a stable, time-base-corrected PAL-M signal. Because the unit also includes a standards converter, NTSC equipment can be used in PAL-M systems enabling the interchange of programs between NTSC and PAL-M countries. The

Quick-change reflectors: standard diffuse; specular, for high intensities, long throws (6400 f.c. at 40 feet); gold reflector, for warmer tones—all compatible with other accessories.

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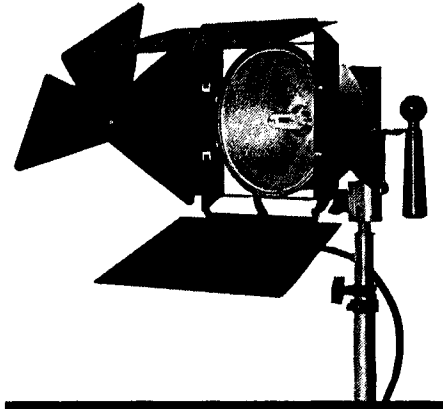
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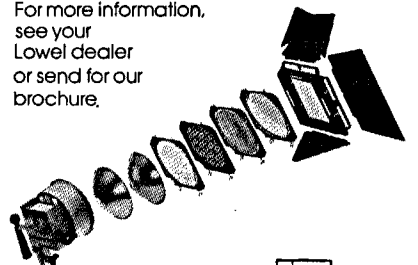
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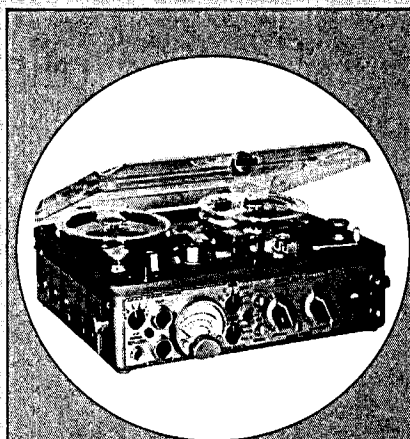
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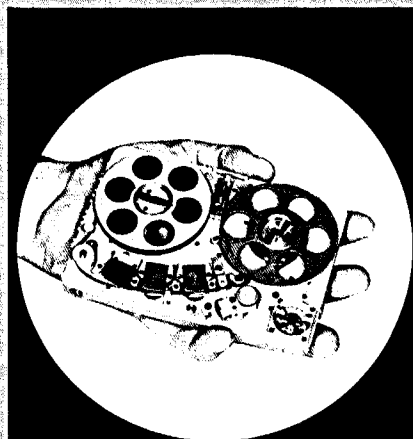
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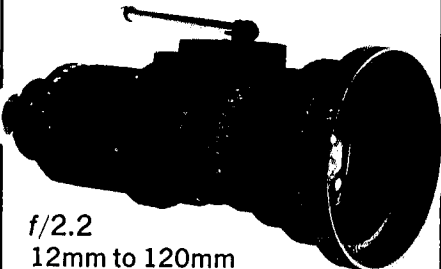
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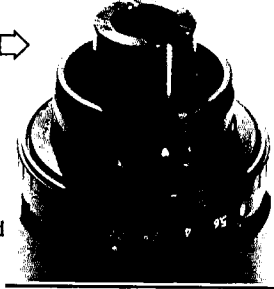
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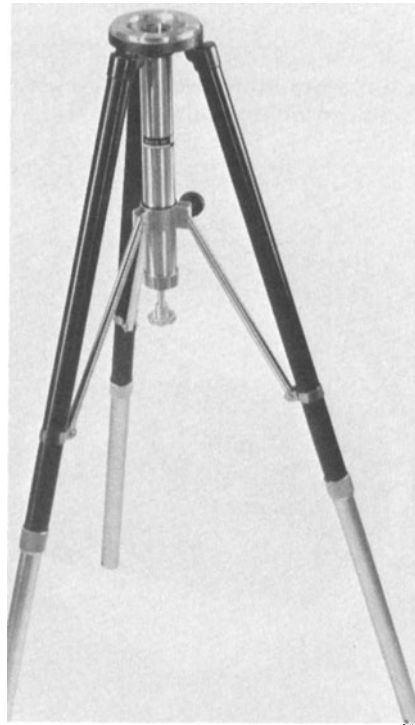
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SINCE 1931

CVS-515 is a complete video signal processor. Features include a sync generator with genlock; correct color dropout compensator; line by line velocity compensator; and a processing amplifier. A two-line window of correction allows correction of tapes with large timing disturbances or unframed edits. The CVS-515 takes up only 8.9 cm of vertical space in a 48.3 cm rack. It is 48.3 cm deep and weighs 11.4 kg. The price is \$15,000.



The Samson Cine/ENG tripod designed for portability and steady support for professional cameras has been announced by Quick-Set, Inc., 3650 Woodhead Dr., Northbrook, IL 60062. The tripod, weighing 9 lb, is made completely of aluminum alloy. The tripod has a Pro Jr. mounting base and a quick head connect/disconnect feature for fast setups and breakdowns. It also eliminates the need for the mounting lock nut used by fluid heads. Telescoping leg sections allow a height range from 32 in to 58 in. The price is \$180.



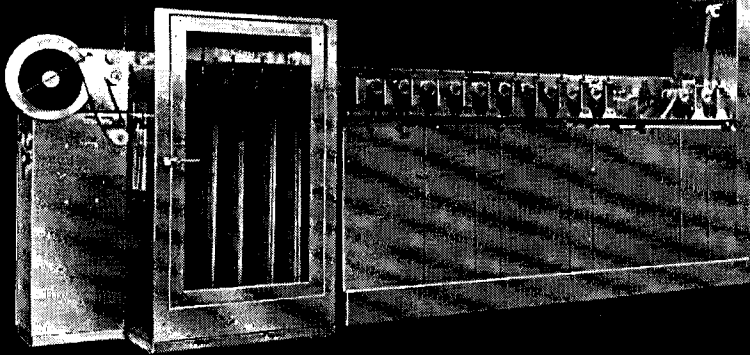
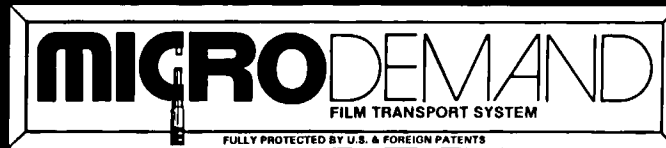
The Sony Broadcast BVG-1000 Vertical Interval Time Code (VITC) Generator Reader has been announced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The machine provides a new approach to time code generation. Designed and developed for studio master/slave and field applications, the BVG-1000 generates the SMPTE time code and inserts it into the vertical interval of the video signal being processed by the unit. Time code readout is possible from still-frame to 128 times normal speed in forward and reverse. The unit provides character generation for increased flexibility. It also includes slave-jam sync capability with incoming standard SMPTE time code or VITC. Price of the BVG 1000 is about \$6000.

The BBC Test Card No. 61, a test photograph for precise color matching of cameras against flesh tones, is available in the Porta-Pattern™ 8 X 10-in format from Telecommunications Industries Ltd., 6335 Homewood Ave., Suite 204, Los Angeles, CA 90028. The card is a meticulously lighted, exposed and printed color reproduction of a live model. The card is mounted in a rigid plastic chart holder for field or studio use. It was developed by fine arts printing specialists W. R. Royle & Son Ltd. of London in close cooperation with the Television Service and Research Department of the British Broadcasting Corp. and is being manufactured for Porta-Pattern by Royle under BBC license. Test card No. 61 was developed to eliminate the slow, expensive and uncertain method of matching camera flesh tone responses by comparing their pickups with a live model. With Test Card No. 61 camera matching can be precise because all cameras are looking at the same flat image. A three-dimensional model reflects a different quantity and quality of light toward each camera position. Price of Test Card No. 61 is \$120.

A new television modulator featuring IF modulation has been announced by Catel, a division of United Scientific Corp., 1400-D Stierlin Rd., Mountain View, CA 94043. Called the TM-2400, the new modulator covers all standard and special television channels in the range of 6 to 270 MHz. It can be used with film chains, cameras, videotape recorders or television demodulators. The TM-2400 features in-the-field channel change. Users can change the operating channel by simply changing a printed circuit assembly. Aural and visual circuits are also modular to make field maintenance easier. Since the IF design allows modulation at a fixed frequency, filters are optimized for a true vestigial sideband signal. For microwave, a second version, the TM-2400B is available with composite video and 4.5 MHz intercarrier input. A model is also available for PAL applications. The TM-2400 is 3 1/2 in high, 12 in deep and 19 in wide. It weighs 16 lb. The price is \$900.

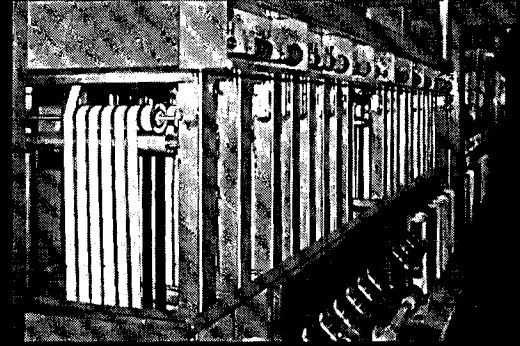
Two new directional power meters designed to provide proper and maximum efficiency of transmitter signals in ENG have been announced by Rohde & Schwarz, 14 Gloria Lane, Fairfield, NJ 07006. Both meters have direct-reading wattmeters. Model 2001 has a frequency range of 1-4 GHz and Model 2002 has a frequency range of 4-8 GHz. Power ranges are from 20 mW to 30 W. Each of the power meters has an indicator unit and measuring head which can be easily connected into the feed line between the transmitter and antenna. Separate meters read both forward and reflected power simultaneously. The broadband frequency coverage in a single range eliminates the need for band switching or exchanging of measuring elements, heads or insertion units. The separate measuring head can be used in ENG vehicles where accessibility is not easy. The new power meters can also be used for matching antennas, load resistors, filters or other loads to a single source or a line; matching the amplifier stages of multistage transmitters; determination of the maximum output power of a transmitter; monitoring transmission lines and transmitters; and measuring the gain of power transistor devices and stages at high frequencies. Price of each power meter is \$1200.

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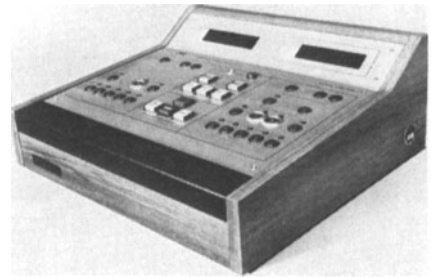
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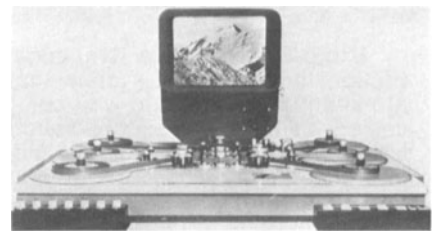
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The RM-83U electronic video editing control unit for use with two CR-8300U videocassette recorders has been announced by JVC Industries, Inc., 58-75 Queens Midtown Expwy., Maspeth, NY 11378. The device permits remote operation of the master and slave units for high-speed bi-directional search and manual or automatic assemble, insert and preview of all edits. The control unit permits slow motion and still-frame viewing as required. Pre-roll buttons provide rewind of 4 s playing time and then stop both videocassette recorders in the pause mode. All functions are signaled by indicator lights on the RM-83U console.

Two independent LED time counters which can be read in minutes, seconds and tenths of seconds to reference control pulses on the tape. When reset to zero they provide an editing-point memory that can be assessed automatically. A tape safety guard circuit automatically returns the master or slave videocassette recorder to the stop mode to protect the tape if the unit is left in the still or pause mode for more than 10 min. The RM-83U is priced at \$2150.



The Cinemonta®, a new flatbed image-and-sound editing table for 16mm or 35mm films has been announced by N.V. Optische Industrie, De Oude Delft, Van Miereveltlaan 9, Delft, Holland, represented in the United States by KLM Associates, Inc., P.O. Box 34102, Bethesda, MD 20034. The table has a specially-designed, distortion-free optical system; a grainless Helio screen of 22 x 30 cm with high-contrast transfer which permits viewing at wide angles; and an easily changeable 12-V, 100-W halogen projection lamp. Features include a new film-protecting transport system; easy operation with simple and fast thread-up path; and stepless speed control from zero to about 100 frames/s (16mm) or zero to about 65 frames/s (35mm) forward and reverse by one hand-operated switch with pre-determined positions for 0 and 24 or 25 frames/s (on request). The tables come in various sizes ranging from CMT 35-1B, a two-plate editing with one 35mm picture without soundhead, to CMT 35-3BG/1G an 8-plate editing table with three 35mm pictures and one 35 or 17.5mm soundtrack. Prices range from \$5350 to \$19,750.

The 16mm tables range from the CMT 16-1B, a two-plate editing table having one 16mm picture without soundhead, to the CMT 16-3BG/1G, an 8-plate editing table with three 16mm pictures and one 16mm soundtrack. Prices range from \$4600 to \$18,600.