

New Products & Developments



A portable television camera, the LDK 15L, has been announced by Philips Broadcast Equipment Corp., 91 McKee Dr., Mahwah, NJ 07430. It is 20% lighter in weight and is more evenly balanced than its predecessor, the LDK 15. The LDK 15L matches the picture quality of either the Philips LDK 5 triax or LDK 25 multicore cameras enabling it to be used either in the studio or in the field as part of a total multi-camera operation. It can be used with the base station of the LDK 5 or the CCU of the

LDK 25. The LDK 15L can be handheld or mounted on a lightweight tripod. An optional 7-in viewfinder can be used on the tripod mounting. The LDK 15L offers either cable or radio modes of operation. It can operate over almost two miles of triax cable or it can handle remote assignments from a helicopter or a boat using a small microwave transmitter/receiver with the camera's Portable Processing Unit (PPU). In its independent mode the camera's three components, camera head, backpack and PPU, can be positioned separately. The backpack can be operated up to 150 ft from the camera head and the PPU can operate up to 500 ft from the backpack. The LDK-15L with 73XQ Plumbicons and 10:1 lens is priced at \$84,000. Various options are available.

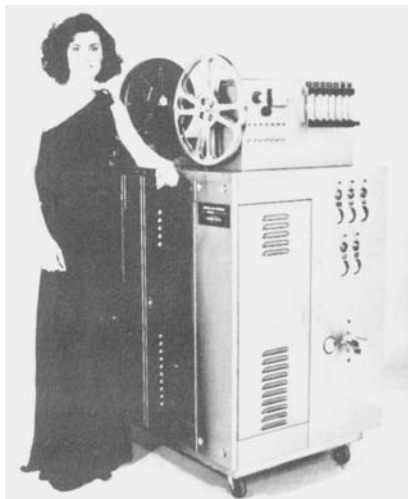
The TK-760 studio/field camera now has added electronic newsgathering applications to its capabilities, according to an announcement from RCA Broadcast Systems, Camden, NJ 08102. The TK-760 converts to a handheld, shoulder-mounted TK-76B camera in minutes with no internal electronic adjustments to the camera head, the announcement stated. The TK-760 can

be operated as a completely self-contained camera without a separate camera control unit. In a multi-camera setup or for other applications where more control of the picture is desired, a compact CCU is used. The control unit, which is connected to the camera head by a small 45-conductor camera cable, provides for control of iris, black level, and R & B white balance. Pushbutton switches control bars, auto white balance, tally call, high sensitivity, auto iris and power. A two-way interphone is also provided in the CCU. The TK-760 is priced at \$44,400. The TK-76B is priced at \$36,600. Also announced was the new TKP-46 portable production camera. Operated with RCA's TK-46 studio camera control unit, the price is \$52,600. With a portable, hand-carried Minipack CCU, the price is \$47,195.



The LDK 25 multicore studio and field camera using the new 73XQ 1-in Plumbicon (shown above) has been announced by Philips Broadcast Equipment Corp. The new tube, combined with new camera circuitry, offers significant im-

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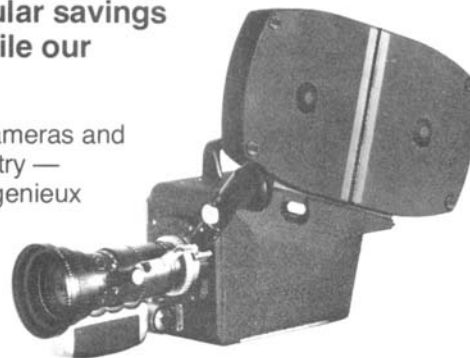
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provement in resolution, increased dynamic range and hot highlight suppression. One of the main features of the LDK 25 is the new Philips electronic system called Dynamic Beam Control (DBC). Hot highlights from lights or reflections causing up to four *f*-stops of overexposure are handled by the DBC with a controlled boost of beam current only in the highlight area. All other picture areas are scanned at normal beam current.

All Philips broadcast cameras have been designed to use rear-loading Plumbicons for simplicity of tube installation; also, the lower capacitance in the signal coupling element at the tube face is said to result in lower noise. A ceramic ring at the front of the tube is incorporated to eliminate the need for optical alignment adjustments. Prices for the LDK 25 begin at \$89,000. A number of options are available.

Also announced was the LDK 14, a fully automatic, self-contained ENG portable using a 2/3-in Plumbicon. It can also be used as an EFP portable or studio camera with an optional remote control unit, the announcement stated. Features include a camera yoke designed with the focus coil placed nearest the tube to reduce focus power and operating temperatures. Other features include increased static and dynamic resolution, *f*/1.4 optics, low-light operation, contrast compensation and use of the Dynamic Beam Control. The camera draws only 27 W permitting a running time of 1 1/2 to 2 h from a lightweight 12-V battery. Between takes, a standby switch reduces power consumption to 6 W. Base price of the LDK 14 is \$39,000. A number of options are available.



A three-tube ENG color television camera weighing 12.1 lb has been announced by Sharp Electronics Corp., 10 Keystone Pl., Paramus, NJ 07652. The lens, beam splitter, coil assemblies and tubes are contained in a moulded housing block. The three vidicons are attached to the dichroic mirror. The camera can operate at low light levels (15 fc with 6-dB gain-switch on). It offers a minimum 400 lines horizontal resolution and SNR of 46 dB. Other features include an *f*/1.8, 6 × 1 manual zoom lens, ac power adapter, and 1.5-in viewfinder. It has a C-lens mount and can be used with either the ac power adapter or a 12-V dc battery pack or car battery. The price is about \$5000.

A digital video frame synchronizer, the TFS-121, has been announced by RCA Broadcast Systems, Camden, NJ 08102. The system locks automatically to the television station sync and

to non-synchronous signals such as remote pickups and satellite and network feeds to produce smooth intermix of remote and studio sources. A picture freeze accessory which allows the picture output of the synchronizer to be retained "frozen" on the screen includes an auto-freeze mode. By pushing a button and adjusting a knob the operator can cause the picture to pulse automatically. The pulsing rate is adjustable from about one freeze per second to three per second. The resulting effect can be adjusted to equal the beat of background music. The output video from the synchronizer does not have to return to live action to capture a new frozen picture.

A picture compressor option which allows the operator to reduce a full-size picture to one-fourth its original size includes "quad freeze." This enables the TFS-121 to display up to four compressed, frozen pictures in any of the four raster quadrants. With up to three frozen pictures displayed, another compressed picture can be moving in the auto-freeze mode. With the picture compressor the picture can be moved to any one of five fixed positions or placed in any position using a joystick control.

The TFS-121 frame synchronizer is priced at \$39,900. With the compressor and freeze accessories the price is \$58,500. Available separately, the picture compressor is priced at \$15,000 and the picture freeze accessory is priced at \$3600.



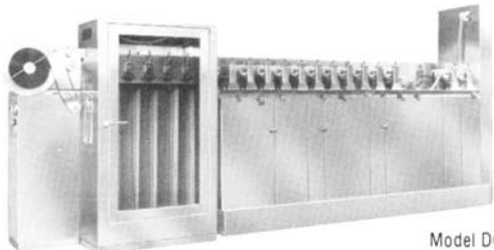
The Matthey Automatic Video Equaliser 2504N for NTSC television systems has been announced by Matthey Printed Products Ltd., William Clowes St., Burslem, Stoke-in-Trent ST6 3AT, England, represented in the United States by William Pegler, Television Equipment Associates, Box 260, South Salem, NY 10590. The 2504N can correct ten parameters: (1) video gain (+4.6 dB - 8.0 dB); (2) low frequency luminance bar (tilt) (± 0.7 dB); (3) sync level (± 3 dB); (4) 2T gain ($\pm 10\%$); (5) chroma gain (± 6 dB); (6) burst gain (± 6 dB); (7) setup (± 10 IRE); (8) 2T delay (lobes % of peak white) ($\pm 10\%$); (9) chroma delay (± 100 ns); and (10) burst delay ($\pm 25^\circ$).

The 2504N works automatically from ITS or VIR and corrects the full field signal through correction of the appropriate test signals. It can be programmed for ITS or VIR on any line. Features include manual controls, local or remote, for use if ITS or VIR is absent, and complete picture switching on automatic by-pass (power failure) or manual by-pass. Each parameter has separate manual control; dc voltages are provided at the data plug for driving meters, data loggers, etc., for each parameter. Price of the 2504N Video Equaliser is \$10,000.

The Series 1000 low-pass filters designed to improve broadcast and CATV transmission of combined video and subcarrier signals has been announced by Tritex Telecommunications, Inc., 1050 F East Duane Ave., Sunnyvale, CA 94086.

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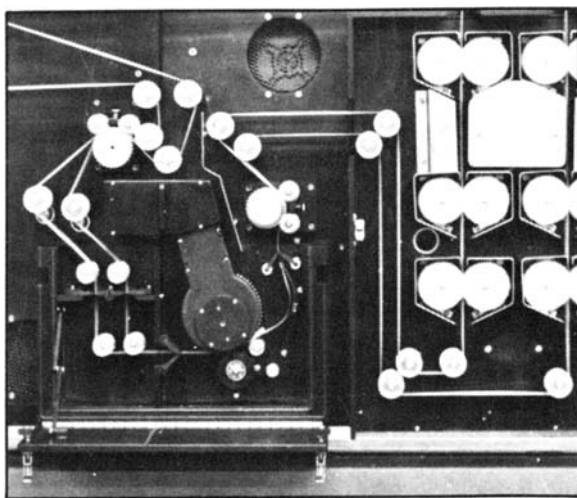
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The filters suppress noise and incidental signals above the video in order to provide clean spectrum for subcarrier transmission and separating subcarriers at the receiving end. The filters are also applicable to broadband data transmission. Models are available with specific passband and stopbands to meet NTSC, PAL and SECAM requirements. All models provide ± 0.5 dB response, ± 20 ns group delay, 0.5 dB insertion loss, 4 dB rejection and minimum 20 dB return loss. Specific subcarrier rejection notches are optionally available as required. Circuit-board configurations are available for assembly as components into OEM equipment. The filters are priced at \$135 each or \$170 with a subcarrier notch.



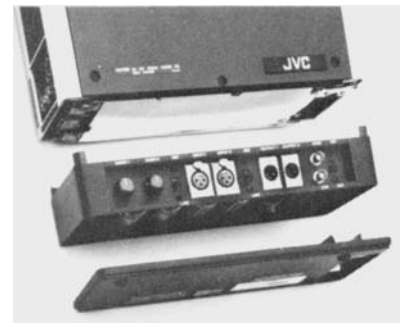
A new reader-character unit having four isolated character generators in conjunction with a single SMPTE time-code reader has been announced by Gray Engineering Laboratories, 504 West Champand Ave., Orange, CA 92668. The unit is contained in a 19-in rack-mounted package 1 $\frac{3}{4}$ -in high and 9 $\frac{1}{2}$ -in deep. It is intended for use in the generation of common characters for isolated camera productions. Designated Model DR-115, the unit has four isolated 75- Ω video loop inputs, each with a separate video output to monitor or record. The SMPTE code input is injected into each of the outputs to ensure that the same code appears on all channels. Controls are provided to size and position the characters on the monitor, control the brightness and insert a "box" around the characters. Regenerated code output for dubbing is provided through a separate output jack. The unit is priced at \$3195.



The VPR-2 helical videotape recorder, designed to meet the SMPTE Type C standard while retaining the features of the VPR-1 (*Journal*, p. 250, Apr. 1976), has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Designed for professional broadcast, CCTV and post-production users, new features include continuous slow-motion and still-frame capabilities. A variable-speed shuttle control also provides the user with continuous control in full fast forward through rewind. The Automatic Scan Tracking system which provides broadcast-quality slow-motion and still-frame play-

back is available optionally. A building-block design allows the VPR-2 to be easily adapted to mobile and remote operations. The recorder can be operated independently as a stand-alone unit. For a more permanent installation it can be fitted into a miniconsole or full studio console that includes a built-in digital time-base corrector and monitoring accessories. Prices range from \$29,950 to \$40,850.

Also announced was the VPR-20, a 1-in helical-scan high-band color unit with full record capability to complement the VPR-2, as well as for use in electronic newsgathering and other remote production situations. The VPR-20 provides record capability on all three audio channels plus the video channel and optional sync channel. The system also has built-in back space assemble edit capability. Prices range from \$34,950 to \$39,950.



A new add-on audiovisual kit designed to add broadcast features to $\frac{3}{4}$ -in portable VTRs has been announced by Videomedia, 250 North Wolfe Rd., Sunnyvale, CA 94086. It provides balanced audio/low impedance, XLR connectors, external sync and subcarrier, and RF connector acceptance. The kit also features individual gain pots and a microphone/line switch for each audio channel. It weighs 2 $\frac{1}{2}$ lb and is said to work with any standard JVC CR-4400, Hitachi SV-340 or Panasonic NV-9400 VTR. The kit is priced at \$750, or \$850 installed. The price includes wire harness and transformers.



The EPIC editor, a computer-based system, has been announced by Consolidated Video Systems, 1255 E. Arques Ave., Sunnyvale, CA 94086. The editor is designed for on-line or off-line control of all types of VTRs from quadruplex and 1-in units to $\frac{3}{4}$ -in cassettes. The EPIC uses plug-in circuit cards instead of separate hardware units. The cards are contained in slide-out rack-mounted drawers. All components of the system except the keyboard are housed in a single 19-in rack. The price for a basic 3-VTR system is \$42,990.

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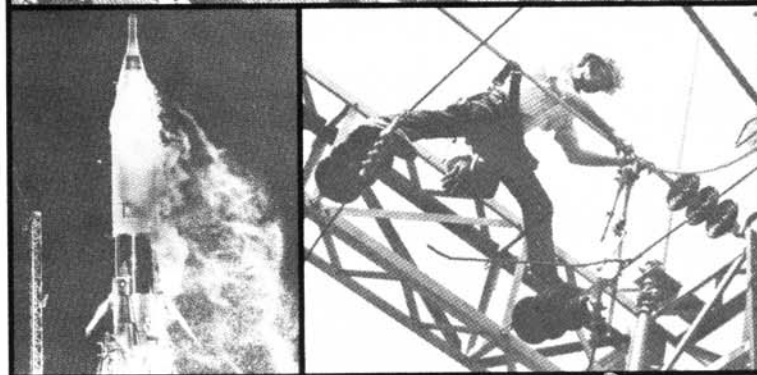
And, of course, there are all the additional features that assure sharp, crisp pictures and true colors: built-in 2H contour enhancer with comb filter...standard I & Q encoder...switchable color bar generator...automatic white balance... automatic iris...and a built-in Genlock circuit using black burst to lock your SK-90 to other cameras.

Options include a built-in linear matrix masking amplifier for high fidelity color rendition and a complete remote operating unit which lets the camera range up to 1000 feet away on standard camera cable. For an even greater working range of over 3000 feet, a Digital Command Unit/Tri-axial Cable System is also available.

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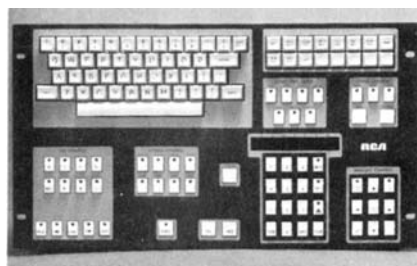
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A new time-code editing system for TR-600 videotape recorders has been announced by RCA Broadcast Systems, Camden, NJ 08102. The system, designated the AE-6000, is microprocessor controlled. Features include continuous automatic assembly, switcher control memory, microprocessor-controlled central processing unit (CPU), graphic CRT display format and simple yes/no decision making. The continuous automatic assembly feature permits the operator to make, store, alter, preview and execute edit decisions for an entire program of events at once. The total editing history for the project can then be stored on the system's mini floppy disks for re-editing in the future. The AE-6000 is capable of controlling up to eight RCA TR-600 videotape recorders. It uses the AE-600 time-code editor as a building block in the system and also incorporates a sophisticated video switcher control system which provides total control over every aspect of switcher operation to allow complex and unusual special effects to be created and stored within the system's memory. Data entry has been simplified with complex courses of action pre-programmed within the system rather than being entered through a keyboard each time required, thus reducing editing time. The price is \$35,000.

The tunable filter on a chip (R5602) has been announced by Reticon Corp., 910 Benicia Ave., Sunnyvale, CA 94086. Four filters are available—two lowpass and two bandpass. These sampled data filters use a Finite Impulse Response (FIR) architecture which is a filter with only zeros and no poles. Features of these filters include (1) electronic tunability—the center frequency of the bandpass filters and the end of the pass band for lowpass filters change with the input clock frequency; (2) linear phase—in general, these filters have linear phase characteristics, useful in applications where preserving the shape of a signal after it has been filtered is desirable; and (3) sharp skirts—the transition region from the pass band to stop band is typically greater than 200 dB/octave, useful when close-in signals need to be rejected, e.g., suppression of the sideband in single sideband systems. Price for each filter is \$50, with reductions available when larger quantities are ordered.

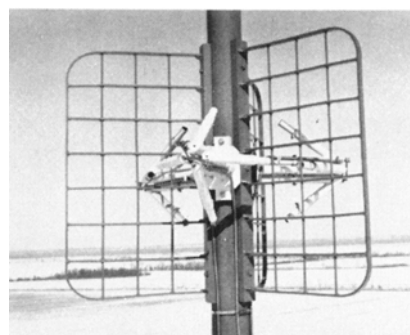


A new digital time-base corrector, the TBC-2, featuring a correction window of 10 full lines in NTSC, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. It is

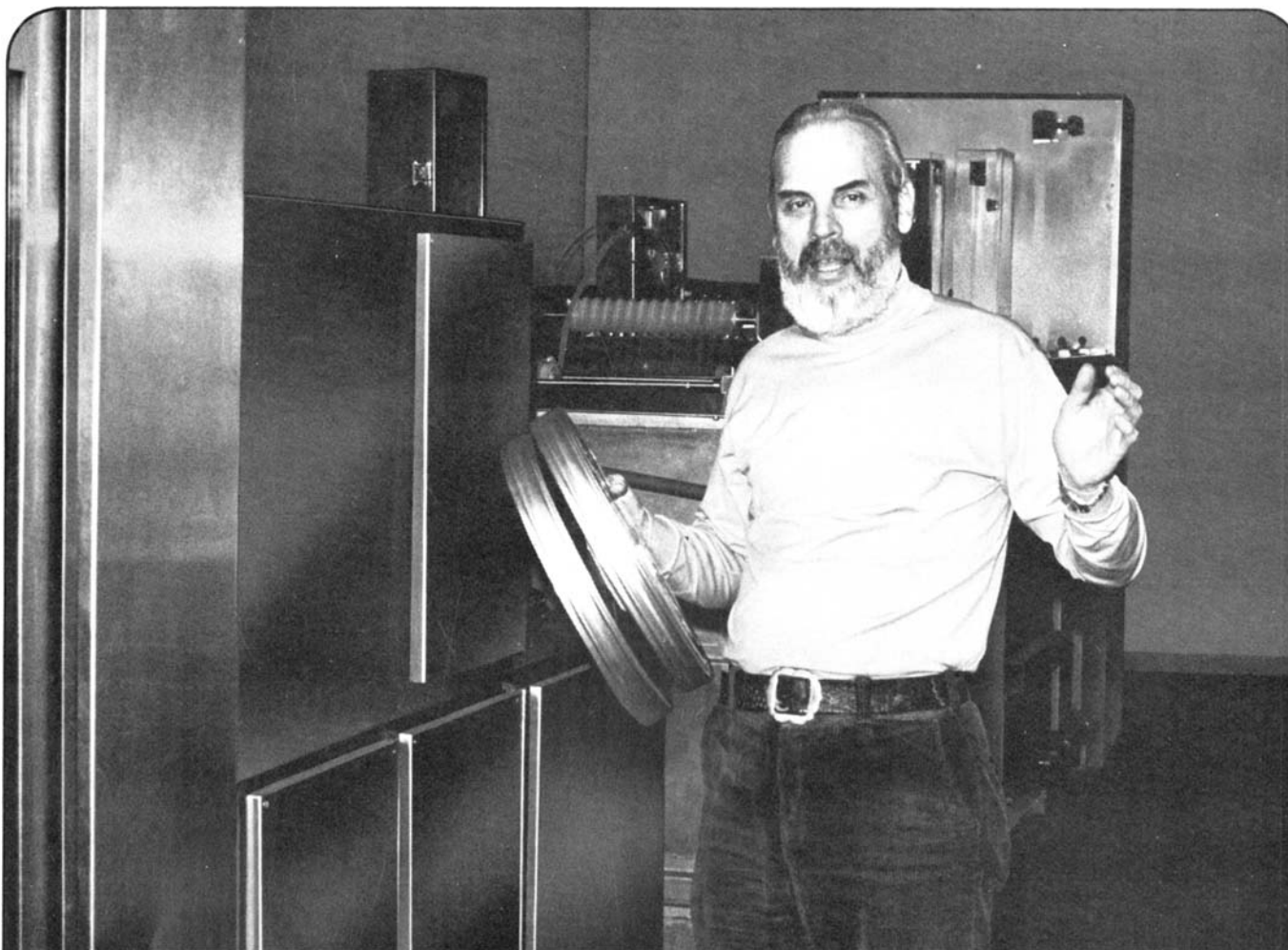
designed to work with the Ampex VPR series of teleproduction recorders and all other non-segmented helical VTRs. The system makes possible continuous slow motion and picture in shuttle on VPR-1 and VPR-2 production recorders. With the TBC-2, color pictures at 10 times normal speed in either direction are possible. The Dynamic Correction™ feature of the TBC-1, which combines averaging and line-by-line correction systems in a single unit, has been retained in the TBC-2. In addition to Dynamic Correction, the TBC-2 has fast smooth overload characteristics should time-base errors exceed the 10-line correction window. This feature allows it to handle the severe gyroscopic errors of ¾-in recorders without degrading picture quality. A universal VTR interface is built into the TBC-2 and no VTR modifications are required for most recorders. An optional dropout compensator makes it possible for the TBC-2 to accept either TTL or RF signals from the VTR. Other options are available. Prices range from \$13,400 to \$19,320.



A broadcast optical multiplexer, Model 750, for use with broadcast television cameras that have an integral field lens requiring a large image format, has been announced by Zei-Mark Corp., Box 182, Brookfield Center, CT 06805. Model 750 has three inputs and one output. Features include dynamic image transitions between inputs at less than 100 ms, illuminated local mode select switches, illuminated dome lamps, audio follow and a remote control plug-in. Model 750 requires only 11 x 18 in floor space and provides an adjustable 48-in optical centerline. The price is about \$4000.



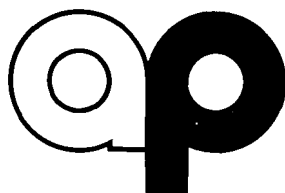
The CPV circularly polarized television antenna has been announced by Harris Corp., Broadcast Products Div., P.O. Box 4290, Quincy, IL 62301. The CPV has a top-mount design with wind-loading specifications said to be comparable to batwing and travelling wave antennas. Each bay of the CPV consists of three crossed



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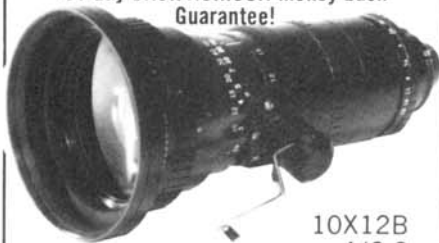
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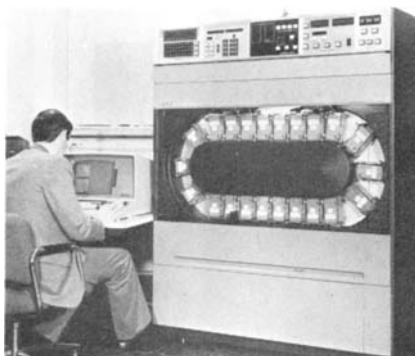
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An automation accessory for the TCR-100 cartridge recorder which allows the machine to be totally integrated into a television station's technical automation system has been announced by RCA Broadcast Systems, Camden, NJ 08101. The built-in automation accessory provides for electronic cartridge identification, automation system interface and programmable random play of any cartridges loaded into the TCR-100. Fast, accurate machine identification of up to 22 cartridges in the TCR-100 magazine is accomplished without threading or cueing the cartridges. Individual cartridges are identified with external bar code labels which are scanned as the magazine carries the cartridges past a sensing device. Scanning and identification of the 22 cartridges are accomplished in 11 s. The resulting information is combined with the proper bin location and stored in the system's memory. The data is then supplied to the station's technical automation system as a table of contents, as required. The identification system handles up to 16 alphanumeric characters of any library coding information desired.

The automation accessory also contains a microprocessor control system to provide completely random play of the TCR-100 magazine contents. Programming can be accomplished from a local play control panel on the TCR-100, or remotely through the technical automation equipment. For last-minute program changes, a sequence change capability allows an event to be deleted or up to nine new events inserted without complete reprogramming. During programming periods when manual control is desired. A simple method of sequential operation is available. The automation accessory is priced at \$21,000. The bar code label printer is priced at \$9,200.



A new 22-kW VHF lowband television transmitter has been announced by Philips Broadcast Equipment Corp., 91 McKee Dr., Mahwah, NJ 07430. The unit has IF modulation with all filtering and pre-correction at low power levels. It is completely solid state except for one aural and two visual stages. Features include the use of an advanced surface acoustic wave (SAW) transversal sideband filter; quick-heating, long life, air-cooled tetrodes; continuous monitoring and switching sequence control by solid state logic circuits; and automatic output power regulation by feedback control giving a high degree of stability. The transmitter is designed for unattended operation under automatic or remote control. It can be started or shut down locally by means of pushbuttons or it can be switched to remote control. Switching between local and remote control does not interrupt the transmitter operation. The transmitter can be operated as a single transmitter, parallel, or alternate/main system. Thus, two transmitters can be paralleled to provide a total output of 44 kW, or two single transmitters or two pairs of paralleled transmitters can be used in an alternate/main system to provide emergency backup support. The 22-kW lowband VHF transmitter is priced at \$215,000. Certain options are available.

Videoraser, a handheld electronic videocassette eraser, has been made available for home use, it was announced by Sonar Radio Corp., 3000 Stirling Rd., Hollywood, FL 33021. The unit is said to be able to erase completely up to 2-in videocassettes in seconds with a magnetic flux of 1400 gauss. Use of the Videoraser is said to minimize extensive wear on video heads. It operates on 110 V. The price is \$48.75.



A spectrum analyzer, model 5502A, used to measure and display amplitude spectra, phase spectra, the magnitude and phase of transfer functions and the coherence function, has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The instrument covers the frequency range from 20 mHz to 25.6 kHz. It can be used for electrical and physical

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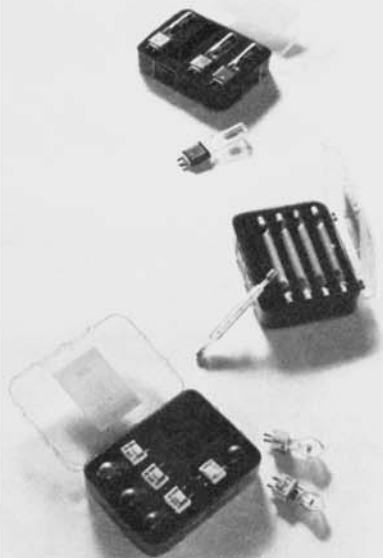
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measurements which have significant spectral information in the audio and sub-audio range. Amplitude and phase are displayed alphanumerically on a large CRT display. Two independent measurements (amplitude, phase, or both, as well as coherence) can be displayed simultaneously or digitally stored and recalled later for visual comparisons. Frequency resolution is down to 20 mHz over the entire 25.5 kHz frequency range. The instrument has a "zoom" feature (Band Selectable Analysis) giving the user the ability to locate frequency spans of 25 kHz down to 5 Hz anywhere within the frequency range of the instrument. The price is \$10,000.



Price reductions on the WD-752A frequency counter and the WD-751A digital VOM for Midcon have been announced by VIZ Test Instruments Group, VIZ Mfg. Co., 355 E. Price St., Philadelphia, PA 19144. The WD-751A is a general-purpose 3½-digit semi-auto-ranging liquid-crystal-display VOM operating on internal batteries, or on ac line current with an adaptor. Its CMOS LSI circuitry is said to be exceptionally stable thus eliminating damage caused by momentary overloads. The price has been reduced from \$179 to \$150.

The WD-752A frequency counter covers the 10 Hz to 60 Hz range with selectable 10 mV or 100 mV input sensitivity. A 1 kHz audible side tone can be used to modulate single-sideband transceivers for carrier-frequency measurements. It can also make frequency measurements in audio, video, CB, ham radio and other communications equipment. A 0.3-in seven-segment LED display automatically shows frequency, decimal point and range (either MHz or kHz). The price has been reduced from \$255 to \$200.



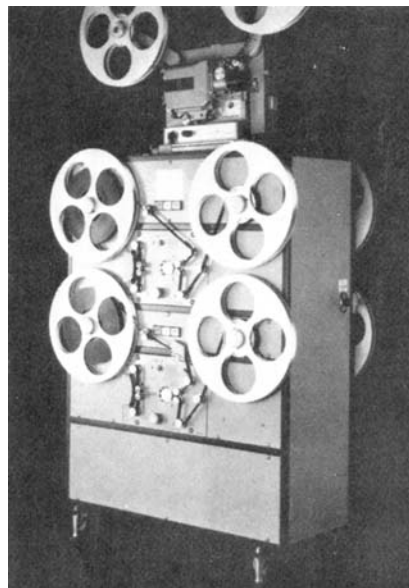
The MAX-100 frequency counter, a battery-portable, 20 Hz - 100 MHz, 8-digit counter, has been announced by Continental Specialties Corp., 77 Fulton Terrace, New Haven, CT 06509. The instrument, measuring 1¾ × 7¾ × 5½ in, provides eight 0.6-in LED digits. It is said to provide 8 h of normal (intermittant) use on a set of batteries. When the batteries are low the entire display flashes at a 1 Hz rate. The internal crystal oscillator has a 3 ppm time-base accuracy. Features include a preamplified input stage permitting readings with as little as 30 mV of signal. The input is diode-protected against peaks. The price is \$134.95. Various options are available.

A new electronic tuning system designed to eliminate the need for fine tuning on color tele-

vision receivers has been announced by RCA Consumer Electronics, 30 Rockefeller Plaza, New York, NY 10020. Called the ChannelLock, the tuning system, used on all new RCA Color-Trak receivers, makes use of large-scale integrated circuits (LSIs) to eliminate the need for fine tuning. Based on an RCA-developed frequency synthesis system, ChannelLock employs a precision quartz crystal that automatically matches the exact station frequency and locks in to end tuner drift.



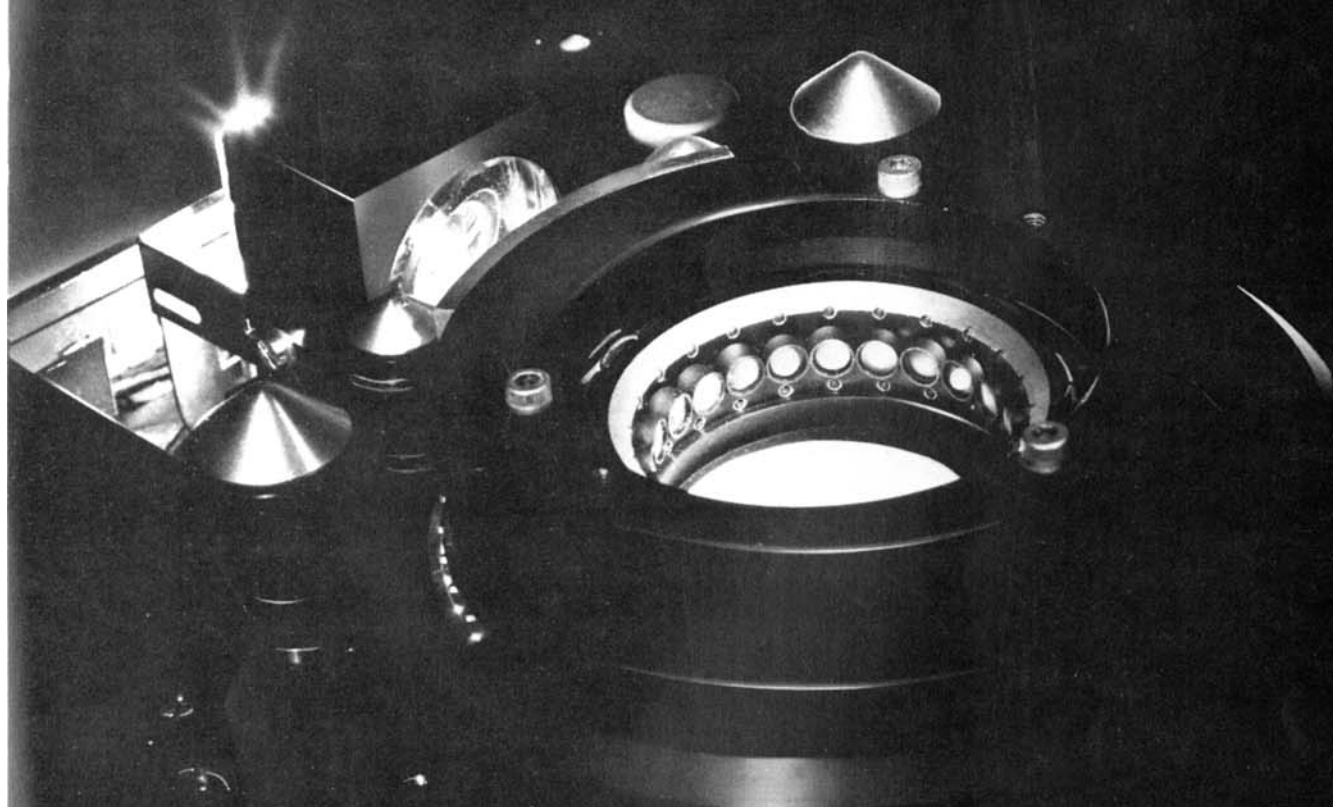
Design Mate-2, a 3-waveform function generator, has been announced by Continental Specialties Corp., 70 Fulton Terrace, New Haven, CT 06509. It is said to put out a sine wave with less than 2% total harmonic distortion over its entire frequency range. Its triangle wave linearity is reported to be better than 1% over its entire frequency range and its square-wave rise and fall times are less than ½ μs with a 600 Ω, 20 pF termination. All waveforms can be generated from 1 Hz to 100 kHz over five ranges. The price of \$74.95 includes a 117-V ac 60-Hz power supply.



The Mini-Rack, a 16mm magnetic film audio recorder (shown above), has been announced by P.A.G. Films Ltd., 492 Kingston Road, London SW20 8DX. The Mini-Rack is a self-contained rock-and-roll projection/dubbing unit available with up to four magnetic channels and projector. Prices start at \$9200 going up to \$25,000 for the complete four-channel system, including mixer, electronic counter and other items. Also announced was the High-Speed Broadcast 16 recorder/reproducer with a dc motor drive. It can be synchronized to pulses from mains, camera or projector (with a P.A.G. optical encoder), from a crystal-locked oscillator or from other P.A.G. film transports. Main applications include transfer from 6.25mm tape, interlock with

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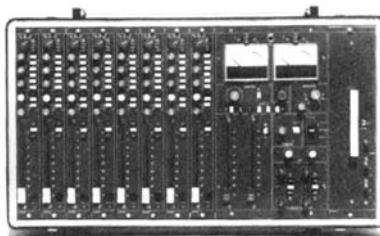


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A 2-channel professional audio recorder, Model MX-5050-B, an improved version of the MX-5050 series, has been announced by Otari Corp., 981 Industrial Rd., San Carlos, CA 94070. New features include newly designed control circuitry with TTL/IC logic for noise-free punch-in and punch-out, and 28 dBm maximum output to provide 24 db of headroom over the switchable fixed output of +4 dBm. An alternate level of -10 dBm is available. Three calibrated record levels are incorporated, switch selectable on the rear panel. The capstan is driven by a dc servo system that also provides $\pm 7\%$ speed control during record and reproduce. The price is \$1795.



Three new multitrack audio recording consoles have been announced by Neve Electronics International Ltd., Cambridge House, Melbourn, Royston, Herts SG8 6AU, England (U.S. Distributor, Rupert Neve Inc., Berkshire Industrial Park, Bethel, CT 06801). Model 8078 is a 40-channel, 32-track console incorporating a separate 32-track monitor/mixdown section with horizontal faders and routing to 4-track outputs. Features include separate microphone and line inputs equipped with 31105 equalization amplifiers, eight of which can be switched for use as reverb returns. Routing from all channels to 24 groups is direct or via panoramic pots. The console provides comprehensive metering, monitoring and talkback facilities. The price is around \$140,000.

Model 8066 offers 20-channel, 16-track facilities. It has separate microphone and line inputs equipped with 31099 or 31102 equalization amplifiers. A separate 16-track mixdown section with horizontal faders allows routing via stereo positioning controls to 4-track outputs. All channels can be routed to two mono and one stereo cue/foldback output while another two mono auxiliaries are provided on the monitor section. A number of options are available including up to six correction units, phase meter and quad panoramic pots. This model may be initially fitted for 16 input 8 group 8 track if required. The base price is around \$59,000.

Model 5315 recording and broadcast audio console for studio or OB use has 12, 24 or 36 input channels each with separate line and microphone inputs and comprehensive equalization. It has four output groups and two master outputs allowing the console to be used for 4-track recording, stereo broadcast production or as a 4-group television mixing console. Base price is about \$35,000.

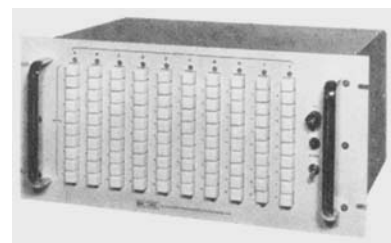
Also announced was a new suitcase mixer, Model 5422 (shown above). It is an 8-channel, 2-group portable mixer suitable for OB van and location work. It can be powered from internal batteries or from a mains unit.

Two shotgun microphones have been added to the Beyer Dynamic Phantom Powered conden-

sor series, according to an announcement from Hammond Industries Inc., 155 Michael Dr., Syosset, NY 11791. The MC716 is a short pressure-gradient receiver-interference tube with a frequency response of 40-20 kHz. The pickup pattern is cardioid-lobe with an output level of 10 mV/pA at 1 kHz. It is phantom powered by an external 48-V supply. The price is \$545. The MC717 is a long-interference tube condenser microphone offering high directivity with a lobe pickup pattern. It is 48-V phantom powered and can operate from -25°C to $+70^{\circ}\text{C}$. It is priced at \$685.



Two Porta-Series microphone floor stands, Models PS-C and PS-C3, have been announced by Atlas Sound, 10 Pomeroy Rd., Parsippany, NJ 07054. Combining stand base and vertical tube in a single unit, both models are portable, foldable, and fast and easy to set up and both have spring-action telescoping legs. They have an all-metal, grip-action clutch. When the legs of the microphone stands are extended they are locked in place, offering the sturdiness of floor stands with circular cast iron bases. Model PS-C extends from a 35-in height to a maximum of 63 in and folds into a 32-in length. Model PS-C3 extends from 26-in to 66 in and telescopes to a minimum length of 22 in. The professional user price for the PS-C is about \$19.60. The PS-C3 is priced at about \$22.50.



A 10 x 10 matrix providing pushbutton assignment of any combination of 10 input audio lines to any combination of 10 output lines has been announced by Opamp Labs Inc., 1033 North Sycamore Ave., Los Angeles, CA 90038. The isolation between input lines is 80 dB and any number of input channels may be assigned to one output channel. The matrix eliminates patch bays with their cords. Features include plug-in solid-state amplifiers and transformers and

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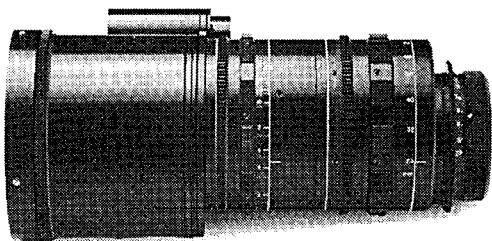
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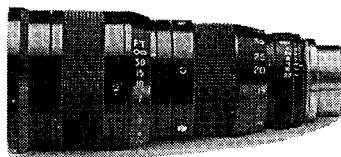
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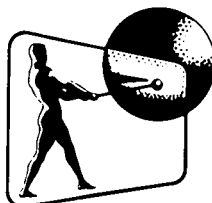
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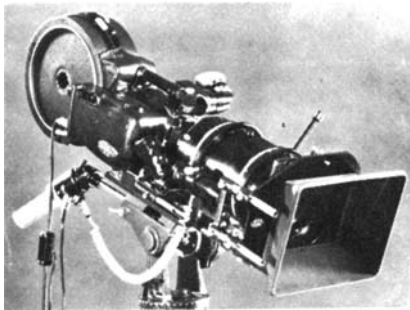
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barrier terminals on the rear for input and output. The instrument is 7 in high, 19 in wide and 14 in deep. It weighs 35 lb. The price is \$2200.



A 12-V/dc servo zoom drive motor, available as part of the 35 BL production camera system, has been announced by Arriflex Corp., One Westchester Plaza, Elmsford, NY 10523. Mounted on the 35 BL Bridge Plate accessory, it is said to provide perfectly controlled smooth zoom movements. Various geared rings are supplied for either the 25-250 Angenieux and the 25-250 Cooke Cine Varitol or the 20-120 Angenieux and the 20-100 Cooke Varitol. The control for the servo motor is in the form of a grip which can be attached to the camera or to the tripod handle. Zoom speeds are available over a ratio of 480 to 1 (approximately 1 s to 8 min). The grip's upper cone-shaped section has a thumb recess that rotates to control zoom-in, zoom-out and zoom speed. The servo system senses variations in mechanical load and electrical power and automatically compensates. A separate control on the grip pre-establishes maximum zoom speed; with it, the operator can predetermine the fastest speed needed for the zoom and concentrate on the smooth "feathering" of the effect. The drive motor operates from 12 V/dc supplies which may be the camera battery pack or a separate supply. Prices begin at approximately \$2100.

Posi-Trol positive control sprockets that restrict side-to-side movement of 35mm motion-picture film in a camera or projector, thus minimizing the chances of film damage, are produced by LaVezzi Machine Works, Inc., 900 Larch Ave., Elmhurst, IL 60126. Compared to standard 35mm sprockets with teeth 0.040 in or 0.055 in wide, the Posi-Trol sprockets have a row of teeth 0.106 in wide that interface with the 0.110-in wide film perforations, reducing the maximum lateral slippage to 0.004 in, thus stabilizing the image on the film in a camera or the projected image on the theater screen.

Posi-Trol sprockets are also designed to protect film from damage caused by tension, misalignment and similar causes. The large teeth of the Posi-Trol sprockets are machined into a blended arc that avoids interfering with the fillet radius in the corners of the film perforations. Because the Posi-Trol sprocket restricts the slippage of the film, there is no opportunity for the sprocket teeth to make contact with the corners of the perforations, the point where film damage usually begins.

The manufacture of Posi-Trol sprockets includes LaVezzi's Radi-Blend process which produces a 16-micro finish (or better) on all surfaces that come in contact with the film. The Posi-Trol sprockets are available for use with 35mm film perforated according to KS-1870 or DH-1870. They are intended for use in drive hold-back applications. Prices range from about \$25.50 through \$35 each, with reductions for

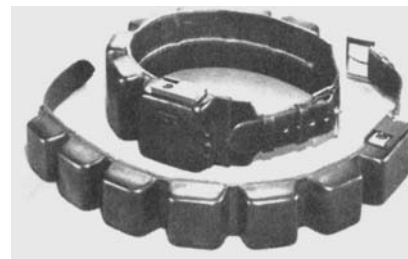
larger quantities. Also available is a low-inertia sprocket for intermittent and similar applications. It can be manufactured to specification for any film size from 8mm and super-8 through 105mm.

The Frezzi Belt Battery Pack, Model F-12-77, a belt-style power supply designed to run Ikegami HL-77 or HL-37 video color cameras up to two hours, has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. Model F-12-77 is interchangeable with Ikegami battery packs. Nickel-cadmium batteries provide ± 6 V dc with a capacity of 6 Ah. Cabling, both ribbon and braided, is used throughout. The electronics compartment and the battery compartments are made of non-crackable epoxy-coated aluminum, and each is secured by six removable mounting bolts to a leather belt $\frac{1}{8}$ -in thick and 4-in wide. Features include an internal 12-h trickle charger that operates from 115 V, 50/60 Hz. The price is \$440. Various options are available. Model F-12-77 can be recharged in one hour or less by connecting it to the Frezzi Model BC-77 Fast Charger, a transformer-type unit with line-isolated output. The BC-77 is priced at \$395.

[Note: The Model BC-77 Fast Charger was formerly called the Rapid Charger.]



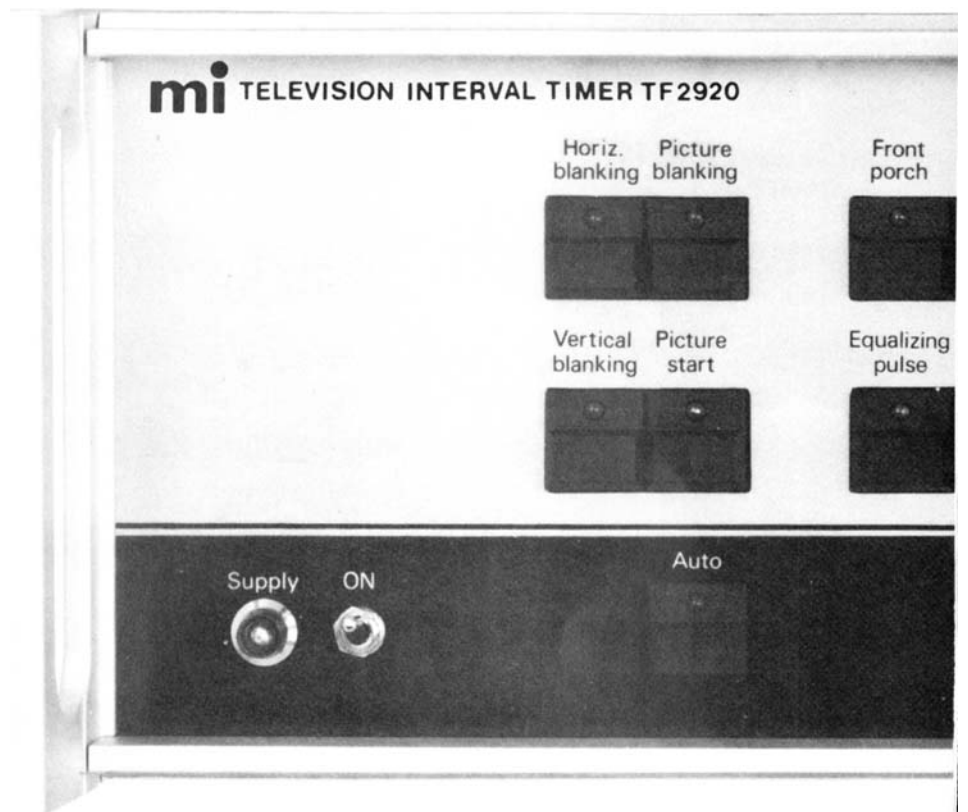
The IDI Data Slate I, which provides automatic consecutive numbering of takes in a large, highly visible liquid-crystal display, has been announced by Image Devices Inc., 1825 N.E. 149 St., Miami, FL 33181. Features include a built-in microphone with level control for voice slate information and a high-intensity bleep-light pulse simultaneous with a 1-kHz beep-tone output to the audio track. It is housed in a case measuring 5 x 9 x 5 cm and weighs 380 g. Other features include self or remote powering, muting switch, connections for any professional-type tape recorder, extension cable for operation at the camera position and connections for remote microphone. The price is \$295.



Speedcharge Battery Belts for safe fast-charging of nickel-cadmium batteries have been announced by P.A.G. Power Ltd., 492 Kingston Rd., London SW20 8DX, England. The announcement noted that from the early days of the P. A.G. Group, many methods of devising such a system had been examined including

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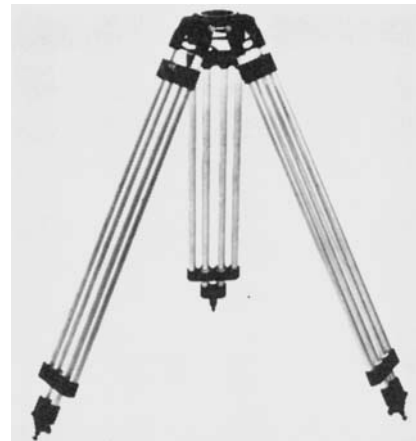
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charge-timing methods, pulsing techniques and dump charging. These methods were considered separately, in combination and with various sensing procedures. "None was really satisfactory," according to the announcement, until the Speedcharge process was discovered. The system is said to be simple in concept and in operation. Prices of the Speedcharge Battery Belt for professional users range from £160 to £250. Also available is the Paglight 100, a battery-powered 12-V 100-W handlamp for fill light use in television and motion-picture applications. It is priced at £38.



A lightweight (9-lb) tripod specifically designed for ENG video camera applications has been announced by Innovative Television Equipment, P.O. Box 681, Woodland Hills, CA 91364. Designated the ITE-T7, the tripod is constructed of tubular aluminum and is designed to stand alone on spiked feet. The tripod is also available with rubber footpads and can be mounted on all ITE tripod spreaders and various ITE dollies (catalog available from Innovative at address above). The ITE-T7 is priced at \$400. Also available is the ITE-7B with ball mount, priced at \$470.



Greatmark Lights, a new line of Fresnels, have been announced by The Great American Market, P.O. Box 178, Woodland Hills, CA 91364. Included are the Senior (5-kW, 14-in), Junior (2-kW, 10-in), and Baby (1-kW, 6-in), all three for use with bi-post lamps. Available for motion picture (model 2414) or television (model 2314), the motion-picture model has a 25-ft cable and plug with a conventional stand mount; the tele-

vision model has a 3-ft cable and plug with C-clamp for pipe hanging. Prices are the same for the motion-picture and television models. The Greatmark Senior is priced at \$520; the Junior at \$275; and the Baby at \$175.



A general-purpose 100,000 Ω/V dc VOM has been announced by VIZ Test Instruments Group of VIZ Mfg. Co., 335 East Price St., Philadelphia, PA 19144. It is fuse- and relay-protected against overload on all ranges and functions. It employs an easy-to-read taut-band meter movement with color-coded scales and mirror. Precision resistors are used throughout for long-term stability and accuracy. The instrument can measure dc voltages as low as 1 mV and up to 1000 V in eight ranges; ac (rms) from 100 mV to 1000 V in five ranges; dc current from 0.1 μA to 10 A in seven ranges; resistance from 0.25 Ω to 20 MΩ in four ranges; and decibels from -20 to +36 dB. A pushbutton on the front panel permits rapid reset of the protective relay if the meter should be overloaded. The price is \$68.

A 1200-W HMI 10-in Fresnel lens spotlight has been announced by The Great American Market, P.O. Box 178, Woodland Hills, CA 91364. Called the Greatmark Daylight, the spotlight is designed for achieving daylight color balance. It produces 90 lm/W with a color temperature of 5600 K. The spotlight head measures 16½ × 13¼ × 17¼ and weighs 35 lb. The 80-lb power supply measures 12 × 19¼ × 10 in. A line of barndoors, scrims and color frames is available. The spotlight and power supply together are priced at \$1895.

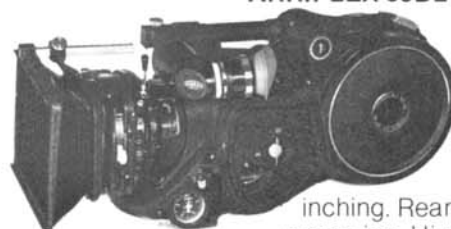
Navitar slide projection lenses for use in all Kodak Ektagraphic, Carousel and S-AV slide projectors have been announced by D.O. Industries, 317 East Chestnut St., East Rochester, NY 14445. The lenses come in focal lengths as short as 1, 1½ and 2 in, as long as 7 and 9 in, all with a focal length tolerance of less than ±2%. Closer matching tolerance is optionally available. The 40 × 40 super-slide format is covered by all Navitar lenses with the exception of the 1-in lens. Prices range from \$75 to \$349.

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