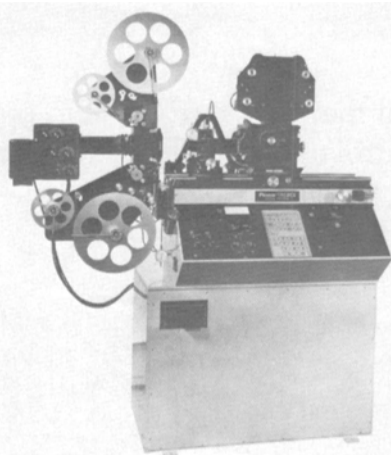


areas to be recorded with greater detail. A demonstration film illustrating the effects of pre-flash was shown together with slides of the sensitometric results. — Joseph A. Semmelmayer (Secretary-Treasurer), Eastman Kodak Co., P.O. Box 3145, San Francisco, CA 94119.

Washington, D.C., 9 September — Starting the year off right was the keynote of the Washington D.C. Section's first meeting of the 1980-81 season. Over 30 members gathered for dinner at Blackie's House of Beef before the meeting to exchange news and discuss the coming year. Some 41 members attended the meeting. Topic for the September meeting was "Videotape for the 80s." Section Chairman Harold Vincent opened the meeting with an overview of the season's programs and discussed briefly a few of the initial results turned up by the recent Section Survey.

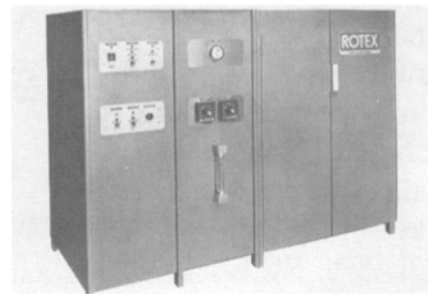
Ron Jarman, Washington Representative for the 3M Company then introduced Bob Herman, 3M Senior Technical Service Engineer from St. Paul, Minn. Herman's presentation focused on the ramifications to videotape manufacturing that have occurred as a result of the increasing use and development of video systems that use less and less videotape. He discussed technical improvements in tape design to handle the increasing density factor and also covered methods of tape handling which might help reduce dropouts and other problems. An active discussion period followed the lecture and demonstration. — James Messenger (Secretary-Treasurer), Charlie/Papa Productions, Inc., P.O. Box 2213, Rockville, MD 20852.

New Products & Developments



A motion picture optical printer, Model 7650LP, has been announced by Pioneer Cine, 7702-4 Balboa Blvd., Van Nuys, CA 91406. The new optical printer features an automatic additive color lamphouse with stepping motor drive system that provides scene-to-scene color changes at speeds up to 40 ft/

min. The printer can accept Bell & Howell frame count cueing tapes and is compatible with RF and notch cueing. Other features include an all electronic photoelectric tape reader, electronic skip-add frame, camera follow-focus and automatic iris, 16-mm and 35-mm Acme camera and film shuttles, Nikkor optics, linear/logarithmic fade and dissolves with range from 1 to 1000 frames, 2000-ft projector take-ups, and the Microtron electronic drive. The price is \$85,000.



The Rotex SAS, a line of wash water silver adsorption systems featuring a proprietary desilvering material, has been announced by Snook Corp., 14600 Winchester Blvd., Los Gatos, CA 95030. The adsorbent used in the SAS is selective for silver and allows one-step regeneration and on-site electrolytic silver recover from photographic wash water. In addition the SAS enables the user to combine all photographic wash waters and tailings from electrolytic silver recovery units for desilvering without need to closely monitor pH values. The SAS is available in a 6, 12, or 18 gal/min configuration with prices ranging from \$20,995 to \$38,995. Larger systems are also available. The system price includes start-up supplies and silver recovery cell.

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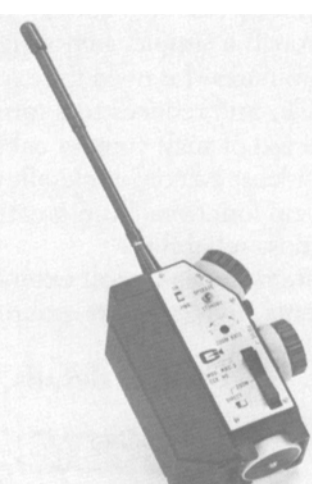
Rear view of Model FL-250 "Frezzi-Lite" mounted on a Sony BVP-300 video camera. Other "Frezzi" Camera Mounting Brackets made for other cameras.



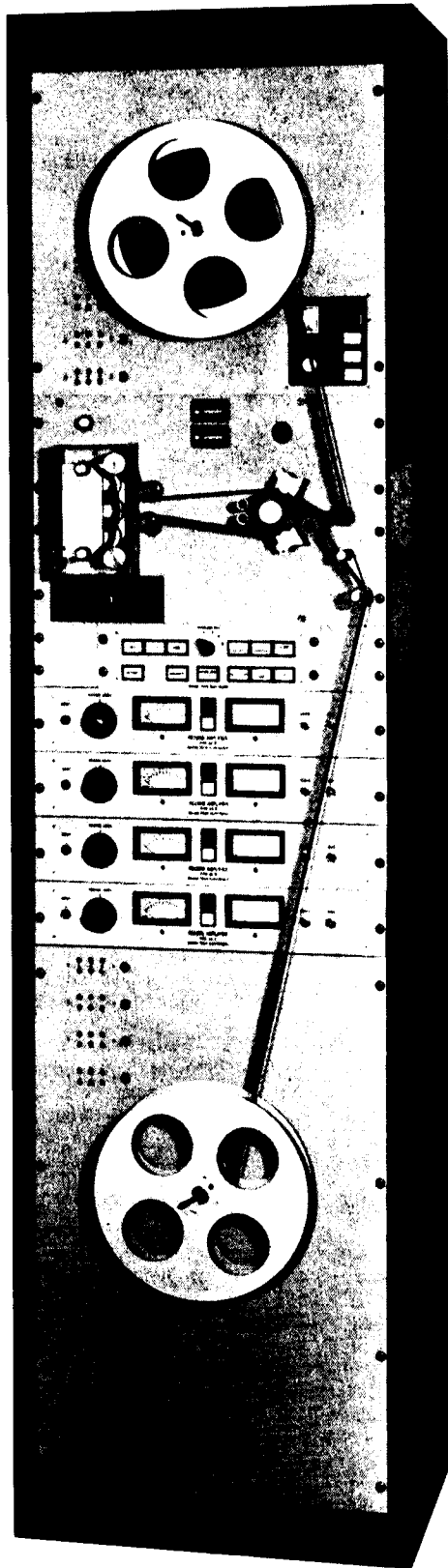
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The WRC-3 three-channel system for remote iris, focus, and zoom lens control, a wireless servo-lens-control system for professional motion picture cameras, has been announced



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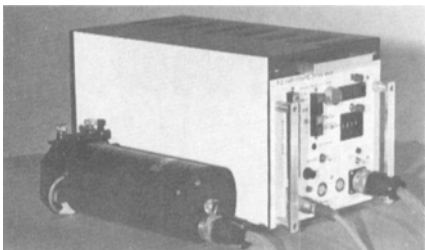
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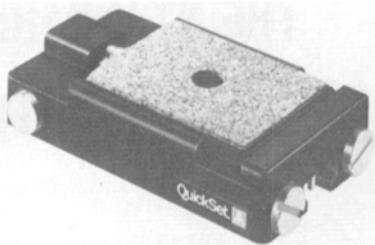
by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Eliminating the need for any physical contact or cable connections between the camera assistant and the motion picture camera, the system permits the camera assistant to control all lens functions from a distance. The WRC-3 lens control system can be used for all handheld filming with or without using the Steadicam and can also be used for crane and dolly shots.

The system is battery powered and consists of a handheld wireless transmitter (operated by the camera assistant) and a receiver that activates the lens servo-motors controlling the iris, focus, and zoom functions. Lens bracketry and gears are available for a wide selection of professional motion picture lenses. Price of the WRC-3 system without servo motors, lens bracketry, and gears is \$3250.



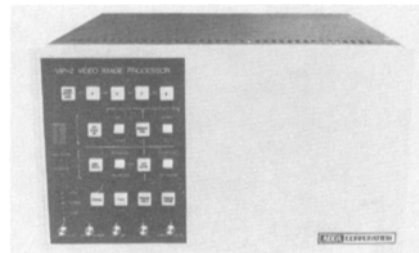
The 35-mm R.D. Vari-Frame Drive System (shown above) for motion picture cameras has been announced by Continental Camera Systems, Inc., 7240 Valjean Ave., Van Nuys, CA 91406. The system consists of a medium or high power dc servo amplifier and a dc

servo-tacho motor of medium or high torque with adaptor plates to attach the motor to most types of 35-mm cameras. The system features rapid acceleration in a maximum of 100° of shutter rotation and deceleration regulated to 45° of shutter rotation at the maximum speed of 25 frames/s enabling the drive system to run in either continuous or single frame mode with the same exposure time per frame. A change from continuous action to single frame action can be made even at 25 frames/s without the need to change the camera lens stop. Eight preset speeds can be specified, selected by pushbuttons, ranging from 0.5 to 25 frames/s. A 4-digit electronic counter indicates the frame number reached, the count running up or down according to the setting of the forward/reverse switch. A pre-determining function can be selected to stop the run at whatever count is set on the 4-digit thumb-wheel switches. Price of the Vari-Frame Drive system is \$6500.



The Quick/On Camera Mount for removing and repositioning an ENG/EFP camera on a tripod-mounted pan/tilt head has been announced by Quickset, Inc., 3650 Woodhead

Dr., Northbrook, IL 60062. The device features pushbutton release and an automatic snap lock system. A small wedge plate featuring a Positive-Grip surface to assure complete camera stability attaches to the camera bottom. Pushing a button on the Quick-On base releases the snap lock mechanism and frees the camera for off-tripod work. When the camera is replaced on the pan/tilt head the snap lock device automatically snaps closed and locks. The Quick-On mount also has a camera-positioning slide with 2-in travel in its base enabling the cameraman to quickly adjust for perfect camera balance on the pan/tilt head. The Quick-On is priced at \$95.



A new video compressor with time base correction and frame synchronization has been announced by ADDA Corp., 1671 Dell Ave., Campbell, CA 95008. Designed especially for news and commercial broadcast production it can compress live or still video in real time along the horizontal and/or vertical axis with infinite area compression. The compressor, designated the VIP-2, features fixed picture center or fixed picture edge. Setup controls are on a separate, external remote control panel. The basic VIP-2 is a video compressor with preprogrammed size and position controls located on a remote production panel. Optional remote panels are available that include joystick control for real time adjustment of size and position. The basic VIP-2 is priced at under \$40,000.

A miniaturized videocassette recorder using 1/4-in (6.25-mm) color and sound videotape and weighing only 7 lb including the battery, has been announced by Technicolor, Inc., 299 Kalmus Dr., Costa Mesa, CA 92626. The new VCR is about 10 in square and about 3 in deep. It can be used with a standard video color camera and the tapes are played back on a television receiver. Through its ac power adapter the VCR operates off normal household current consuming only 8 W. Its self-contained battery provides 80 min of energy when used to play back on a television receiver or 40 min for camera recording. The battery recharges in an hour through the adapter. The VCR also operates off a 12-V car or boat battery through a cigarette lighter socket. It can record to or from another videotape recorder regardless of size.

Features include a memory counter that automatically stops rewinding a tape at a pre-designated position, a dropout compensator, and a circuit to detect potentially damaging moisture condensation. The detection circuit prevents the VCR from operating until the condensation is automatically eliminated.

Heart of the VCR is its video head drum assembly comprised of monocrystal ferrite heads with accurate image-tracing capability making possible the practical use of 1/4-in tape. The package, consisting of the VCR, adapter, battery switch box connection to a television receiver, connecting cables, cas-

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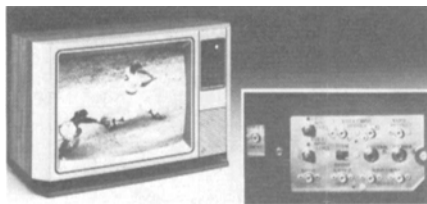
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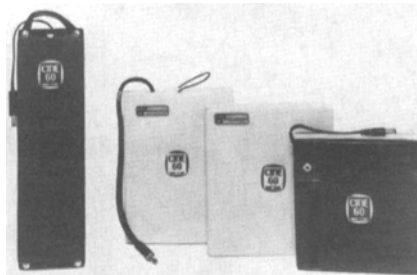
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sette, and transformer, is priced at about \$995. A 30-min cassette is priced at \$8.95.



The ColorTrak Video Monitor, a 19-in (diagonal) video monitor that performs as a regular ColorTrak receiver, has been announced by RCA Consumer Electronics, 600 North Sherman Dr., Indianapolis, IN 46201. Designated Model VEM575, the monitor has separate jacks to accommodate videocassette recorders, home computers, and cameras. Designed to be the "nerve center" of a complete home video system, the video monitor/receiver can be used for security surveillance via one or two cameras plugged directly into the unit, or two VCRs can be interconnected via the video/audio inputs to edit home videotapes or make duplicates. The VEM575 also features RCA's cable-ready tuning system with direct access to 23 CATV channels. The direct connection jacks eliminate the need to attach a VCR or other external unit to a television set's antenna terminals. The VEM575 is priced at about \$679.95.

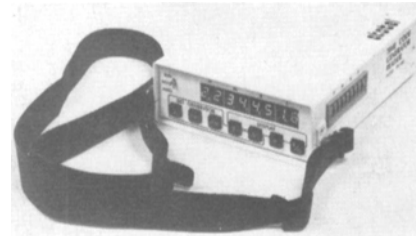
A new group of nickel-cadmium battery packs designed to fit inside the battery compartments of portable videotape recorders and



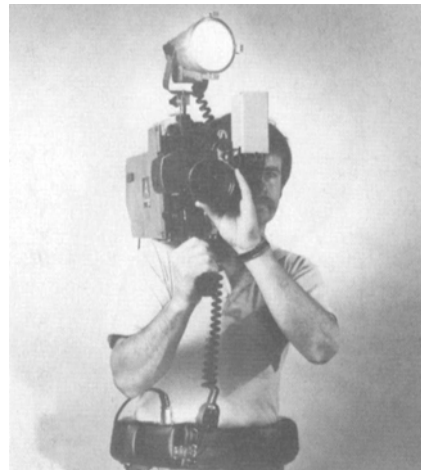
ENG cameras has been announced by Cine 60 Inc., 630 Ninth Ave., New York, NY 10036. Several different sizes are available to fit most of the commonly used VTRs. The in-board battery packs have outputs of 12 V with either a 2.5- or 4-Ah capacity. Operating times for the packs depend on the equipment with which they are used, typical values ranging from 1 to nearly 4 h. All models weigh about 3 lb and are 1 1/2 in thick. Prices range from \$195 to \$255.

The Skotel Time Code Generator/Reader, Model PTC-100, a portable, compact unit designed for television and film EFP requirements, has been announced by Skotel Corp., 1445 Provencher, Brossard, Quebec, Canada J4W 1Z3. The unit can identify color field sequence in time code and can meet film standards for 24, 25, and 30 frames/s and television standards for NTSC, PAL, and PAL-M. The unit can also generate and read user bits.

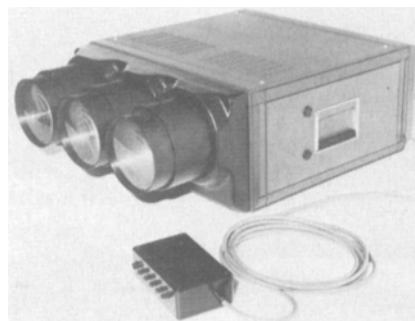
The PTC-100 has an integral jam sync reader that permits slaving several units to-



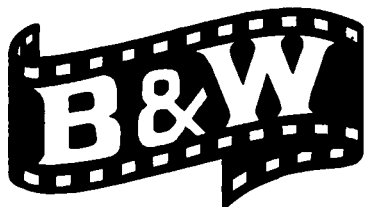
gether. New user bits can be preset and entered without disturbing the time counter and the time counter can be operated remotely. Thumbwheels preset time counter or load user bits. There are no multifunction controls. Model PTC-100 is priced at \$2800.



A new battery, Model SLA 14100 (14 V/10 Ah) (shown above), designed to drive the RCA TK-76 camera and a 100-W sun-gun for 45 min, has been announced by the Film Equipment Service Co., 1875 South Pearl St., Denver, CO 80210. Also available is the Model SLA 12100 (12 V/10 Ah) for 12-V camera systems. The "two in one" power sources are intended especially for use in news conferences and low light situations eliminating the need for two power sources. Model SLA 14100 can run the camera alone for 2 1/2 to 3 hours. Prices range from \$425 to \$650 depending on the Ah rating and voltage of the battery.



The Aquastar III B video projector has been announced by Electronic Systems Products, Inc., 1 Tico Rd., Titusville, FL 32780. The projector weighs 78 lb, measures 9.5 x 20 x 28 in, and provides 350 lm. Features include liquid-coupled lens and liquid-cooled tubes designed to eliminate dust and prolong tube life. The Aquastar uses either a flat or a curved screen and the picture size may be varied from 4 ft to 20 ft in width. The price is \$7500.



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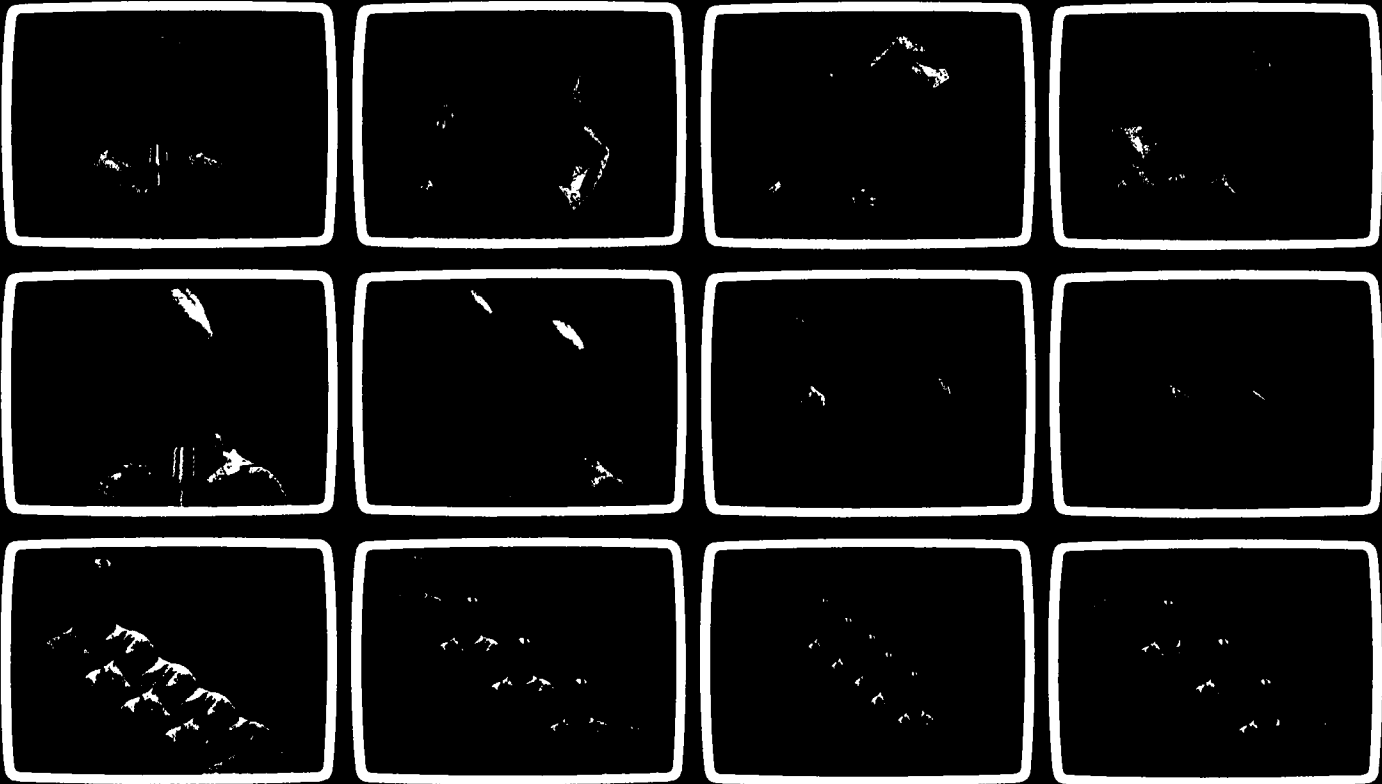
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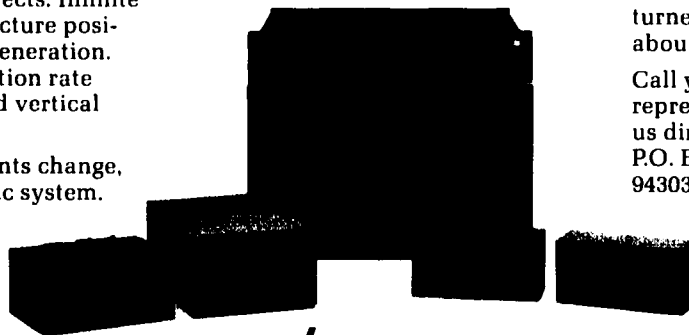
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Another way Panasonic says innovation is with the AK-760 ENG/EFP camera. With its three diode-gun Plumbicon® tubes and built-in bias light, it offers incredibly high resolution (600 lines center) and extremely low lag. And with its feed-



back beam control, the AK-760 has the necessary beam current to stabilize scene highlights to the point where comet tailing is greatly reduced.

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Panasonic also says innovation with the AS-6100 special effects generator, the AS-2000

chroma key generator and the AS-1000 color sync generator. And, of course, you can look forward to even more Panasonic broadcast equipment in the future. But take a good look at Panasonic broadcast equipment now. After all, you never know: Maybe the same innovative engineering that won us an Emmy can help you win one.

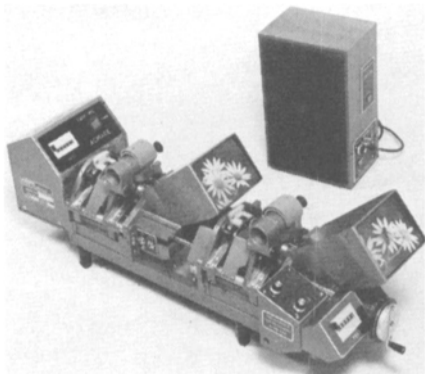
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*Manufacturer's suggested price. (Lenses not included.)

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The Twinpic editing machine providing for two picture tracks and two soundtracks has been announced by Acmade International, Oakside, Oxford Road, Uxbridge, Middlesex, England. The machine is available in both 16-mm (shown above) and 35-mm. It has been designed with two separate modules, each containing one picture track and one soundtrack; and the modules can be run separately or in sync. Price of the Twinpic machine is about \$4053.

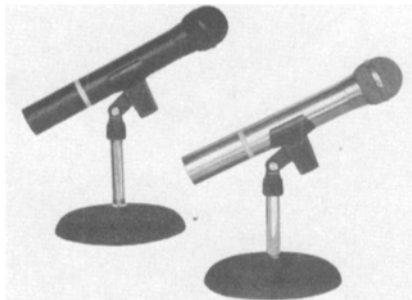


Two digital delay lines for sound reinforcement applications have been announced by Eventide Clockworks, Inc., 265 W. 54 St., New York, NY 10019. The JJ193 delay line (shown above) is available in three different maximum delay lengths — 510 ms, 1.022 s,

and 2.046 s. Each unit has four separately delayed outputs from one input. Delay is adjustable in 2-ms steps by means of front panel DIP switches which allow settings to be pre-selected with no need to reset the delay after each turn-on.

The CD254 has two outputs and 254 ms of delay adjustable in 2-ms steps by internal switches.

The new delay lines have a frequency response of 12 kHz and a dynamic range of 90 dB at any delay setting. Each unit requires only 4.45 cm (1³/₄ in) of rack space. The JJ193 is priced at \$1195 to \$1795, the latter for a 2-s version. The CD254 is priced at \$895.



The Nady VHF handheld wireless microphone with the Electro-Voice 1776 head has been announced by Nady Systems, 1145 65th St., Oakland CA 94608, manufacturers of the Nasty Cordless wireless guitar transmission systems. The Nady VHF microphone is 10 in long with a 1³/₈-in diameter and weighs 10 oz. It has a built-in antenna so no unsightly wires dangle from its housing. The price is \$1000; however a receiver is needed with the trans-

mitter so the total system price is \$2100 with a nondiversity receiver or \$2850 with a true diversity receiver.



A new crystal sync generator with both 50- and 60-Hz outputs has been announced by Tobin Cinema Systems, 3227 49th Ave. SW, Seattle, WA 98116. Designated the TX-8, it is designed for installation inside most pilot or cassette audio tape recorders to permit cordless double system sound filming in conjunction with a crystal controlled camera. A single two-position switch is used to select 50- or 60-Hz output. Output for either frequency is a pilot-standard 1-V rms sine wave into 600 ohms or more and which contains only 3% harmonics for reduced crosstalk into the audiotrack. The circuit board is a double sided fiberglass epoxy type with plated through holes. Tantalum and monolithic capacitors and carbon film resistors are used where appropriate. The crystal is an AT-cut type of over 3.5 MHz and a trimmer is provided for future recalibration if necessary. CMOS is used, with active processing to a sine wave. Two models are available, one for regulated -10 to -10.5 V at -3.5 mA, and the other for +12 to +35 V at 5 mA with on-board regulation. Price for each model is \$125.

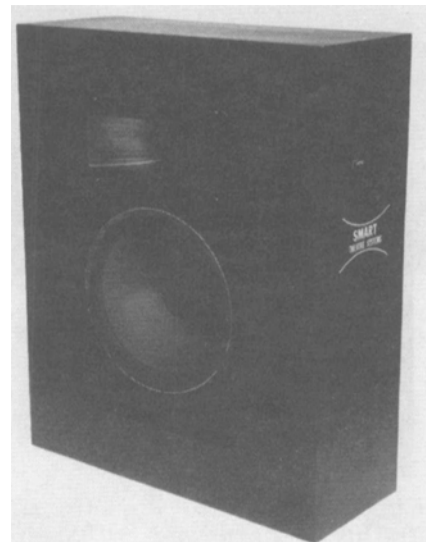
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The SA-8 loudspeaker system, designed primarily for cinema use, has been announced by Smart Theatre Systems, 7203 Hodgson Memorial Dr., Savannah, GA 31406. The device has a total enclosure depth of less than 12 in which allows the unit to fit behind a screen 1 ft from the wall. A newly designed high frequency driver and horn has extended range to permit reproduction of stereo optical soundtrack releases. An extra heavy bass driver permits more power to be applied from modern booth amplifiers. A single SA-8 can deliver pattern control and sound projection for a theater auditorium with a seating capacity of 350 to 500. Multiple units can be used for

stereo. The SA-8 can also be used for surround speakers on the rear channel of stereo-optical or magnetic prints. The SA-8 loudspeaker is priced at \$787.50.



A new audio analyzer designed for use in audio test and transceiver test applications has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. Designated Model 8903A, the instrument combines a low distortion audio source with a highly flexible analyzer in one instrument which measures dc volts, ac volts, distortion, signal to noise, SINAD (signal to noise and distortion), and audio frequency from 20 Hz to 100 kHz. Using a microprocessor controller the device can control and gate the audio source with a single keystroke and can then measure and compute the ratios of the resulting signals from the transceiver under test.

The audio source section provides 0.6 mV to 6 V open circuit from 20 Hz to 100 kHz with frequencies and levels set by keyboard. Log sweeps as well as frequency increment changes can be programmed with single keys. Front panel frequency display resolution is 5 digits while the amplitude display is 4 digits. An X-Y recorder can be driven directly. Y-axis output is scaled to 0-10 V for the units selected by keyboard entry and measurements can be absolute or dB and per cent relative to a prior measurement or a key-entered number. For general audio testing, the 8903A measures frequency response, swept distortion, hum and noise, gain, and power output.

In transceiver test applications, the 8903A source is used to modulate the test transmitter while the demodulated output of a companion 8901A modulation analyzer is measured for distortion and frequency response.

The analyzer section accepts signals up to 300 V at dc and 20 Hz to 100 kHz. In the automatic mode it autotunes to the distortion or level function range for best accuracy and resolution. The 8903A is priced at \$5800.



The HP 5335, a Universal Counter with built-in calculating capability and automatic measurement routines, has been announced by Hewlett-Packard, 1507 Page Mill Rd., Palo Alto, CA 94304. The design of the HP 5335A combines a microprocessor with a multiple register counter (MRC), a high density analog/digital LSI chip specially designed and produced by Hewlett-Packard for this type of application. Even the counter's most demanding measurements can be initiated at the press of a button. HP Interface Bus (IEEE-488) capabilities are standard along with highly versatile gating for dynamic measurements such as frequency bursts and profiles. New capabilities in trigger level setting are also provided.

The HP 5335A combines reciprocal-taking measurement techniques with automatic interpolators to provide 9 digits/s display for all frequency measurements up to 200 MHz (standard) or to 1.3 GHz (optional). Single-shot time interval resolution is 2 ns while time interval averaging yields a resolution down to 100 ps when measuring repetitive events. Other measurements include frequency ratio, period, period average, and totalizing. The counter's full sensitivity, bandwidth, and input signal conditioning capabilities can be applied to both numerator and denominator in frequency ratio measurements.

Other measurements that require only the pressing of one or more keys on the front panel keyboard are phase, duty cycle, rise and fall times, and slew rate. In addition, statistical data, such as standard deviation and mean value are automatically computed and displayed for any of the measurements. The user simply presses a key to define sample size of 100 or 1000 measurements and another key to command standard deviation or mean value.

All measurement functions can be operated upon the counter's built-in math functions. Offset, normalize, and scale may be used independently or together in any combination.

The flexibility with which the user can set the voltage level at which a counter will start counting governs the variety of waveforms with which the counter can be used. The 5335A has an auto adjustable mode in addition to all the trigger level setting methods. Selection of input triggering slope and ac or dc coupling is also provided.

Arming allows synchronizing an electronic counter's measurements with external trigger commands. The 5335A has 11 arming moves to give the user control over when and how long a measurement is made.

An optional digital voltmeter (DVM) adds frequency, time interval, and dc voltage measurements. This option offers a ± 1000 V autoranging, autopolarity, dc DVM with 100 microvolt sensitivity, and a fully floating input.

More than 30 diagnostic routines have been designed into the instrument. At turn-on, a power-up routine checks the integrity of the RAM, ROM, MRC, and display. If problems are found an error message will be displayed. Signature Analysis is used in the digital sections for trouble isolation and repair. Price of the HP 5335A Universal Counter is \$2950. An additional input channel, 1.3 GHz, is \$450. The optional DVM is \$275.

C. Francis Jenkins	"Stereoscopic Motion Pictures"	Jan. 1919
Lee De Forest	"The Phonofilm"	May 1923
D. L. MacAdam	"Quality of Color Reproduction"	May 1951
Rodger J. Ross	"Film in Television"	June 1958
Peter C. Goldmark	"Color Electronic Video Recording"	Aug. 1970

These papers illustrate the Society's historical commitment to advance motion-picture and television technology.

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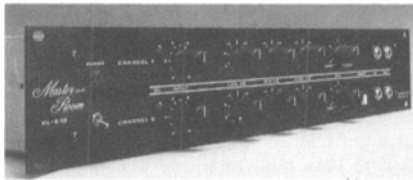


A new electronic counter for dubbing and preview has been announced by PAG Films Ltd., 565 Kingston Rd., London SW20 8SA, England. The new counter incorporates a 4-digit display based upon a set of cathode ray numerical display tubes 90 mm (4 1/2 in) high. The tubes are said to give excellent readability even under very high ambient light levels and provision is made for brightness adjustment. All the electronics are contained on one fiber glass PCB with noise immune CMOS integrated circuits throughout for reliability. The price is £1150.

Also available is a deluxe version with BCD output to drive additional displays and a remote control panel incorporating range selection and preset to any desired start reading by means of thumbwheel switches. Provision is also made for cue dots on the display which may be driven by preread heads fitted on film reproducers. Price of the deluxe version is £1375.

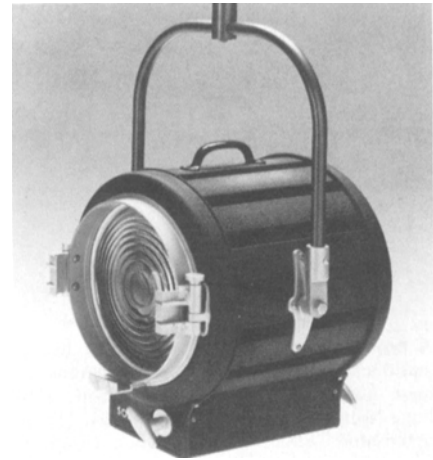
The Codemaster Film Edge Numbering Machine has been announced by Acmade International, Oakside, Oxford Road, Uxbridge, Middlesex, England. The machine enables film or magnetic soundtape to be edge coded at a fast rate (120 ft/min) using a dry transfer tape. The Codemaster is portable so that it can

be moved from one cutting room to another or taken on location. The price is about \$6426. There is also available a 35-mm model convertible to 17.5-mm.

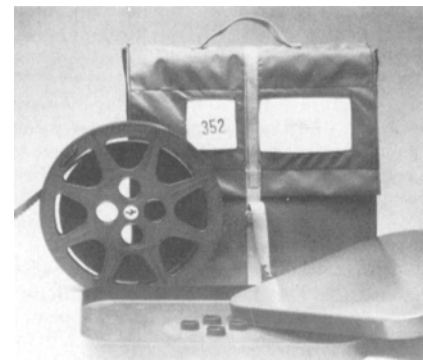


The Master-Room XL-210 reverberation system has been announced by MicMix Audio Products, Inc., 2995 Ladybird Lane, Dallas, TX 75220. The XL-210 is a self-contained 3 1/2-in rack mount unit featuring two completely independent stereo channels that are easily switchable to monaural operation. Active balanced inputs allow the unit to be fed easily by either balanced or unbalanced lines and the unbalanced outputs can drive a 600 Ω load. The device can be used with the echo or effects send/return function of most consoles or it can be placed in the main signal path, blending the desired amount of direct and reverberated signal with the front panel MIX control. Both channels have an equalization section to provide flexibility, allowing the user to simulate the reverberant sounds of a live chamber, plate, or concert hall. The unit incorporates special chamber isolation techniques that allow the system to be located near loudspeakers operating at high level without acoustic feedback. It can operate on either 120 or 240 V. The price is about \$950.

A new 10-in Fresnel for key, back and side applications has been announced by Panoak Lighting Systems and Supply, 6809 E. 40 St., Tulsa, OK 74145. The new lamp has a 10-in lens, heavy duty Mogul bipost socket utiliz-



ing a CYX series lamp. The lamp has a reflector retainer for ease of cleaning the removable Alzak reflector. Features include focusing knobs, front and back; chrome plated guide rods for the focusing assembly to provide smooth, precise focusing; a single casting socket and reflector carriage assembly; and a welded steel case with staggered longitudinal ribs for strength and durability and to provide better ventilation. The television model is priced at \$335 and the motion picture model is priced at \$345.



The Dancan storage shipper, a square reel and container shipper, has been announced by Morten Jacobsen Trading ApS, Wilh. Smidts Vej 15, 2820 Gentofte, Copenhagen, Denmark. The square shippers, are said to be very easy to open yet can stand alone without opening, according to the announcement. Optional "finger" holders inside the 1600-ft model make it possible to hold three reels of different sizes at once — 800, 1200 and 1600 ft. Prices range from \$3 to \$5. Model 1600 weighs a little over 27 oz and protects against temperature and moisture extremes, dust and rough handling.

Also announced is the Danbag, a strong, thin nylon bag that can hold four films in Dan-cans for maximum security shipment. Approved by Scandinavian postal authorities, the bag has a military strap lock, a clear plastic window for the address card and an open frame holder for the postal registry card. There are six models ranging in weight from 8.39 to 11.43 oz and in price from \$12.50 to \$16.

Further information about these items can be obtained 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.

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