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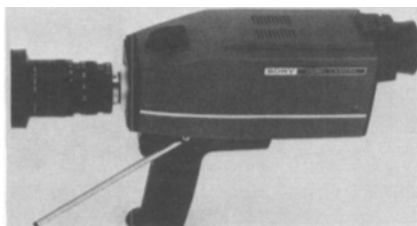
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

Evershed Power Optics Ltd. has announced the latest improved version of its remote TV camera control equipment for use in small studios. (The U.S. subsidiary of the firm is Power Optics Inc., 1055 W. Germantown Pike, Fairview Village, PA 19426.) Evershed introduced its first digital camera control systems in 1969 for the BBC London News Complex and since then various versions of the control systems have been installed in a number of national network centers including Hamburg, Paris, Brussels and others. The equipment can control camera operation including panning, tilting, upwards and downwards movements of pedestals, zooming and focusing.

The equipment consists of a pushbutton control panel, electronics rack, servo-operated pan and tilt head and pedestal base and telescoping column supported by compressed nitrogen. It is usually custom-built for either single- or multi-camera operation. The system provides at least 15 camera preshots which can be stored, jumped or transferred, with on-air trimming and fading and sequences of up to 60 cued shots with step forward/step back control.

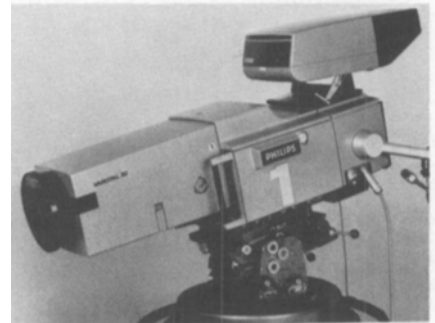
Full optical, directional and electronic control can be provided with optional on/off control for functions such as lighting; and the system lends itself to computer control techniques including automatic control of color levels.

Typical basic prices for the system would range around \$23,000 for a single-camera digital system and about \$54,000 for a basic 3-camera system.



A handheld monochrome video camera with a built-in 1.5-in viewfinder, zoom lens and electret condenser microphone have been announced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The new camera, which replaces the AVC-3400, is intended primarily for use with the 1/2-in EIAJ AV-8400 Video Rover and the AV-3400 Porta-

pak. The camera provides resolution of more than 450 lines and SNR in excess of 42 dB. A built-in zoom lens has a lower wide-angle setting of 12.5mm with a maximum telephoto focal length of 50mm. Other features include a specially designed noise-free electrical recording start switch, battery check lamp in the viewfinder and automatic sensitivity control. The price is \$725.



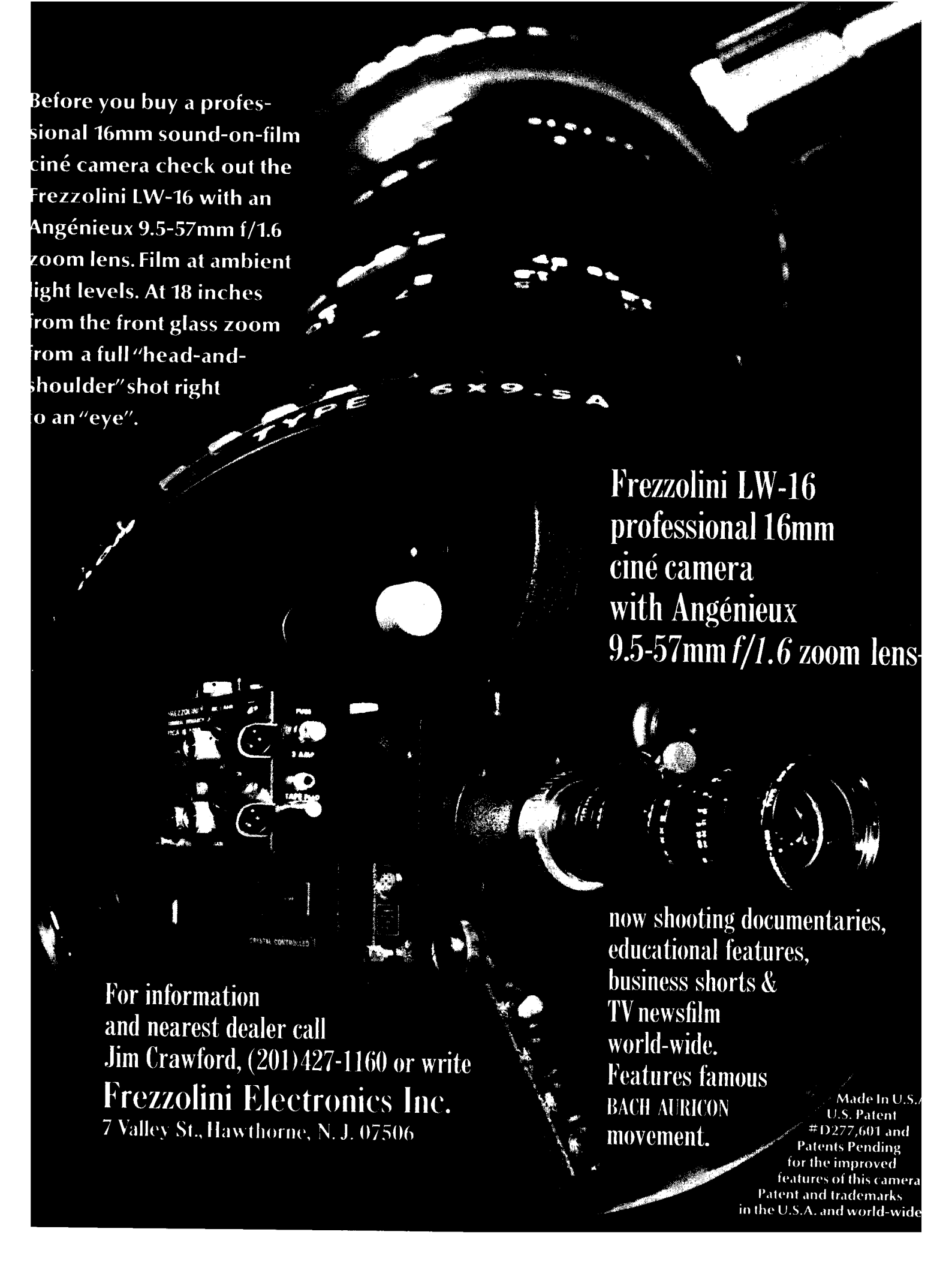
Five new color television cameras have been announced by Philips Audio Video Systems Corp., One Philips Parkway, Montvale, NJ 07645 — the LDK-5, picture above, an advanced digital-triaxial-cabled camera; the LDK-25, a sophisticated multiconductor cabled studio and field camera; the LDK-15, a lightweight studio-field unit; the LDK-2, a studio unit; and the LDK-11 a 15-lb electronic journalism camera. All of the cameras have three Plumbicon™ imaging tubes and yokes and the patented beam-split prism. Except for the LDK-11 which has 3/4-in Plumbicons all have 1-in Plumbicons. A key aspect of the LDK-5, 25 and 15 is the predominance of interchangeable modules in the various systems and the ability to mix and match the cameras in a variety of ways to achieve versatility in station systems.

The LDK-5, a studio color camera chain for both indoor and outdoor use, has a modular design consisting of a low-profile camera and a small base station. For operational flexibility, the base station is split up into self-contained sections which may be arranged together or separately as required. Camera and base station can be interconnected by different types of cable and radio link. Frequency multiplexing is employed to allow two-way transmission of modulated carrier waves over a single conductor. Composite color signals coded in accordance with the PAL or NTSC systems are used. A digital system with memory in the camera is used for operational control of the camera, all operational controls being arranged at the base station. Price of the LDK-5 is \$91,045.

The LDK-25 is a color camera using modern design techniques and modular construction to achieve high stability, reliability and flexibility in operation. The camera incorporates a CLUE (Color Line-Up Equipment) facility to permit rapid and accurate color balance using only the monochrome picture monitor and a standard gray-scale chart. Price of the LDK-25 is \$62,850.

The LDK-15, a portable color camera, incorporates the digital camera control principle and the two-way frequency-multiplexed transmission principle. Price of the LDK-15 is \$86,500.

The LDK-2 is primarily designed for use in local and regional stations and commercial studios but it can also be used as an announcer camera and caption scanning camera in more sophisticated broadcast studios. It pro-



Before you buy a professional 16mm sound-on-film ciné camera check out the Frezzolini LW-16 with an Angénieux 9.5-57mm f/1.6 zoom lens. Film at ambient light levels. At 18 inches from the front glass zoom from a full "head-and-shoulder" shot right to an "eye".

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vides a PAL or NTSC coded composite signal as well as a set of RGB primary color signals. The camera is self contained and partly modular. The price is \$34,000.

The LDK-11 can be operated as a fully self-contained lightweight portable camera for news or production applications. It can also be used as a cable-connected remote controlled camera when integrated with additional cameras in a multi-camera studio or field pickup. The price is \$43,500.

**The Humitemp®** an indicator instrument for direct measurement of both relative humidity and temperature for all environmental applications has been announced by Phys-Chemical Research Corp., 36 W. 20 St., New York, NY 10011. The instrument utilizes the PCRC-11 HPT sensing probe which includes

a PCRC-11T humidity sensor and two G-31 platinum, glass-sealed temperature sensors. One temperature sensor is used for direct temperature readout and the other is used to compensate the temperature coefficient of the humidity sensor. All sensors are housed in a special fiber-filled phenolic probe assembly. Readouts for temperature and humidity are linearized and cover the ranges of 0 to 100% RH and 0 to 100°C. The instrument can also be supplied with Fahrenheit scales — 32 to 212 F. Automatic temperature compensation for the humidity sensor is operative from -5°C to +75°C (23 to 167°F). The Humitemp also provides linear analog output-signal jacks for both humidity and temperature for recording, computer interfacing or remote readouts. Prices range from \$822.80 to \$1,159.20.

**The Automation Data Accessory (ADA)**, a computer interface accessory for ACR-25 videocassette recorders used in automated television stations, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The device is designed to automatically program and control the operation of the ACR-25. The ADA integrates the ACR-25 into the automated operation by acting as a kind of bilingual translator, receiving and storing information from the videocassette recorder and transmitting it to the host computer which does most of the work of scheduling the daily events to be aired. The computer can supply a list of ACR-25 playbacks; ADA relays the list to the ACR-25 and the computer rolls the machine on cue, the announcement explained. At any given time the ADA can store as many as 63 events in its memory; even if the computer goes down, the ADA continues to supply the proper series of playbacks to the ACR-25. Price of the ADA is \$19,500.

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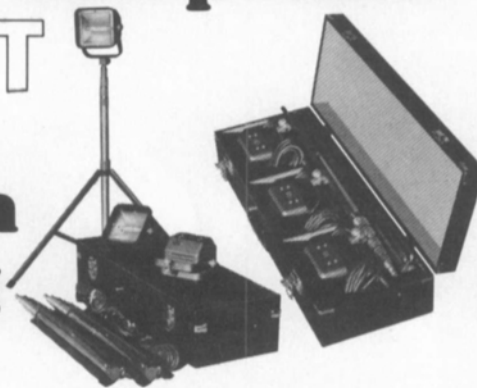
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The CAT-KIT, which weighs only 17 lbs., 8 oz., includes: three non-focusing fill lights (*miniature broads*); three 10 ft. long three-wire cables (with in-line switches and parallel blade U-ground plugs); three "POP" light stands (made of aluminum); and a sturdy carrying case, measuring only 5 3/4" x 9 1/2" x 27". The CAT-KIT operates at 120-volts AC/DC with 650-watt double-ended quartz lamps.



**The HD-1501**, a high-resolution video display monitor, intended for use in industry, research, education and medicine, has been announced by Sierra Scientific Corp., 2189 Leghorn St., Mountain View, CA 94043. The monitor is a 15-in (diagonal) CRT with rectangular corners and an 8-mil spot size. The unit is reported to have a combined linearity and geometric distortion of less than 1%. It can operate from all EIA and most industrial sync, including reconstructed sync from single-field disc recorders. The 1501 has full-range automatic line rate lock (10 to 60 HZ vertical and 15 to 37 kHz horizontal) and a dc filament regulator that provides constant current. The price is \$2,500. A broadcast version is available at the same price.



**The Minimag II**, a new SMPTE-sponsored Time and Control Code (ANSI Standard C 98.12-1975) Synchronizer/Code Generator, has been announced by Automated Processes, Inc., 80 Marcus Dr., Melville, NY 11746. The machine is a second generation design incorporating essential functions for automatically synchronizing and interlocking any two audio or video multitrack tape machines. Applications include audio "sweetening," simulcasting TV and stereo FM, remote overdub recording, and combining an audio mix with a visual medium. The SMPTE-sponsored Time and Control Code generated by Minimag II is recorded on both the master and slave units either before or at the same time as the program material is recorded. The synchronizer then automatically compares the code played

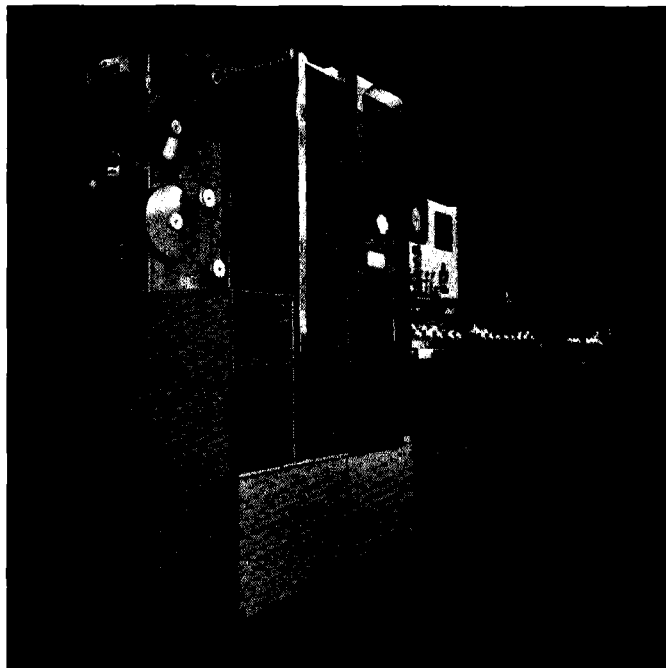
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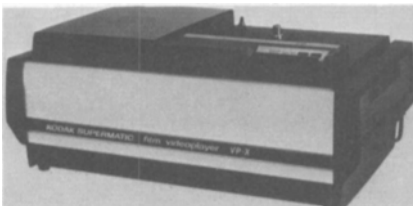


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back from the slave tape with the code on the master tape and issues a capstan control signal to lock both tapes in sync. Tape machines designed for dc servo operation are controlled directly; synchronous motor machines are controlled through an optional capstan drive amplifier. Functions such as fast forward, rewind, stop and play are slaved, causing the slave machine to move as commanded by the master tape. Price of the Minimag II is \$4,950.

**Signal Source 512 Sequential Color TV Test Pattern Generator** has been announced by Visual Information Institute, Inc., Box 33, Xenia, OH 45385. The instrument has been designed specifically to drive television devices operating in the Red-Blue-Green sequential format used in video projection systems, particularly for flight simulation displays. It develops a complete set of test patterns including Resolution, Gray Scale, Color Bar, Window, Flat Field, Bar and Dot. The Resolution signal is composed of alternate black and white square waves which produce the black and white striped pattern on a television display. The instrument also provides an ascending gray scale adjustable to either linear or log characteristic. The Window pattern is supplied for low frequency testing and for evaluation of transient response characteristics. Bar and Dot geometric reference patterns are provided for linearity and convergence adjustments. The NTSC Color bar lineup is provided. The instrument has an internal sync generator with crystal, free run or AFC line-lock master oscillator control. The price is \$3,600.



**The Supermatic Film Videoplayer VP-X**, a new super-8 film videoplayer designed especially for use by television stations and other installations requiring system-wide synchronization, has been announced by Eastman Kodak Co. The machine plays black-and-white or color, super-8 silent or sound motion pictures. It has many features in common with the VP-1 Videoplayer (*Journal*, p. 524, June 1973). The VP-X, however is intended for use with external synchronization and does not contain an RF modulator. The VP-X's inputs for external synchronization include burst flag, composite blanking, vertical drive, composite synchronization, horizontal drive and color subcarrier plus outputs for 600-Ω audio signal and the composite video signal. The video signal does not require time-base correction. The unit is 8½ in high, 21 in wide and 13 ⅝ in deep. It weighs about 45 lb and operates on 110 to 125 V, 60 Hz and 3 A service. The price is \$1,250.

**Scotch brand 455**, a special application helical-scan videotape has been announced by 3M Company, Magnetic Audio/Video Products Div., P.O. Box 33600, St. Paul, MN 55133. A special 650-Oe, high-energy oxide results in an additional 3 dB SNR and 5 dB RF output in comparison to Scotch brand No. 461 videotape. Permanent lubrication reduces abrasion and ruboff thus providing maximum head and

tape life. The tape has been specifically designed for use only on high-density recorders such as the Sony ½-in AV-CE series, AV 8650s and the Sony 2-in helical-mastering recorder, NV 10,000.



**The VP-3000**, a portable U-Matic color videocassette player, has been announced by Sony Corp. of America, VTR Div., 9 W. 57 St., New York, NY 10019. Intended especially for sales presentations, the player has the Sony ¾-in U-Matic videocassette format. Prerecorded cassettes can be played back on any standard TV set without adaptors by connecting the machine to a TV set's antenna terminal for an immediate presentation with sound. The VP-3000 needs no special monitor and can be connected to any standard TV set already in an office or a school. It accepts the small Sony U-Matic 20-min cassette, KCS-20. The price is about \$1500.

**The Fluke Frequency Counter, Model 1920A**, a portable high-sensitivity frequency counter designed specifically for telecommunication applications, has been announced by John Fluke Mfg. Co., Counter Div., P.O. Box 1094, Station D, Buffalo, NY 14210. The new frequency counter uses LSI/MOS circuitry. Features include a 9-digit LED display, sensitivity to 15 mV, AGC standard, and a frequency range of 5 Hz to 520 MHz. Optional internal prescalers to 1000 MHz and 1250 MHz cover the UHF television, 900 MHz telecommunications, and Tactical Air Navigation/Distance Measuring Equipment (TACAN/DME) bands. Direct and prescaled inputs are color-coded to match their corresponding function switches to facilitate operation, while the large, 7-segment, 9-digit LED display incorporates full leading zero suppression, automatic annunciation, overflow and a self-check mode which lights all digit segments. Price of the 1920A is \$859.

**The Series 3.5 plug-in 75-Ω video delay units** for 19-in racks has been announced by Matthey Printed Products Ltd., William Clowes St., Burslem, Stoke-on-Trent ST6 3AT, England. The series is available in the United States from Television Equipment Associates, Box 1391, Bayville, NY 11709. Series 3.5 was designed specifically for the color television broadcasting industry. The units, fitted with rear-mounted BNC connectors and measuring 3 ⅞ in (89 mm) high by 3 ⅞ in (84 mm) wide, fit into 19-in rack equipment. Examination of a pulse and bar waveform reveals minimal distortion. The units provide delays from 10 ns to 165 ns in 5 ns steps selected by switches, plus a fine trim of ± 4 ns by screwdriver adjustment. To the adjustable section inside the unit, "base" video delays of 50 ns, 100 ns, 200 ns, and so on up to 2.7 μs can be added in accordance with the user's specification. The Series 3.5 units have built-in equalizers making them ready for immediate use in

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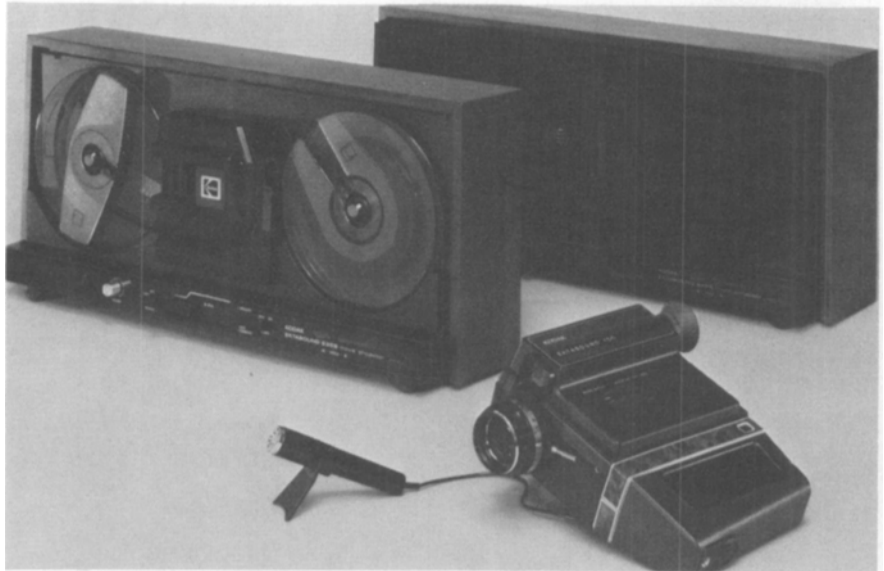
"Too many 'one chance' wildlife scenes have been ruined by camera noise, but our Arri BL has solved that problem. When you're shooting wildlife, there are too many other problems to have to worry about the camera."

Through their films, the Stouffers have reached many millions of people. Animals can't talk - but with help from the Stouffers . . . and Arriflex . . . they can get their message out.



the video signal path. Prices for the 3.5 Series units range through \$140 (for a non-equalized delay) to \$825 for one to 10 units. Per unit prices are slightly reduced for larger orders.

A zoom lens blimp housing for the Arriflex 35BL has been announced by Jack A. Frost Ltd., 335 Horner Ave., Toronto, Ont. M8W 1Z6, Canada. The blimp housing slips over the Angenieux 25-250 zoom lens and adapts to the standard prime lens housing. It accepts 138mm and 4½ in diameter round standard filter sizes. All controls are operated from the outside (iris, zoom, focus). Features include low noise level and smooth operation. It can be used with zoom and focus sticks. All scales are engraved on the blimp housing for easy operation. Changing from prime to zoom lens can take less than two minutes time. The price of \$1,880 includes an 138 mm optical flat.



The Eumig 30XL, an existing light super-8 sound camera has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The camera weighs about 2½ lb without batteries or film. The camera's design enables the governor-less silent film cartridge to maintain a running speed of 18 frames/s enabling the user to sound-stripe processed silent films, dubbing in a musical accompaniment or commentary which will be at the 18 frames/s rate. The film sensitivity range of the new camera is up to 160 ASA. The meter automatically adjusts for a type "G" film cartridge. Price of the 30XL is \$369.95.

A new Ektasound 150 super-8 sound camera and two new Ektasound projectors have been announced by Eastman Kodak Co. The camera, designed for easy one-step operation, accepts either super-8 sound or silent film. It offers a choice of power or manual zoom in a fast  $f/1.2$  Kodak Ektar 9-21mm zoom lens, 230° shutter and double-vane exposure control for existing light filming and an effective minimum aperture of  $f/45$  for proper exposure outdoors in extremely bright sunlight. The power zoom control is used to compose scenes while filming and the manual control is used to compose when the camera is not run-

ning. Price of the new Ektasound camera is \$363.50.

The new Ektasound projectors, 235B and 245B, have increased illumination (90 to 100 lm depending upon the lens) using a new 80-W, 30-V bulb with dichroic reflector. Other new features include an automatic stop device which operates if the film has been secured to the supply reel to permit easy re-winding. The projector is also automatically turned off. The 245B projector has sound-recording capability. In addition to the ability to record soundtracks it can add sound on sound or erase portions of prerecorded material. It is

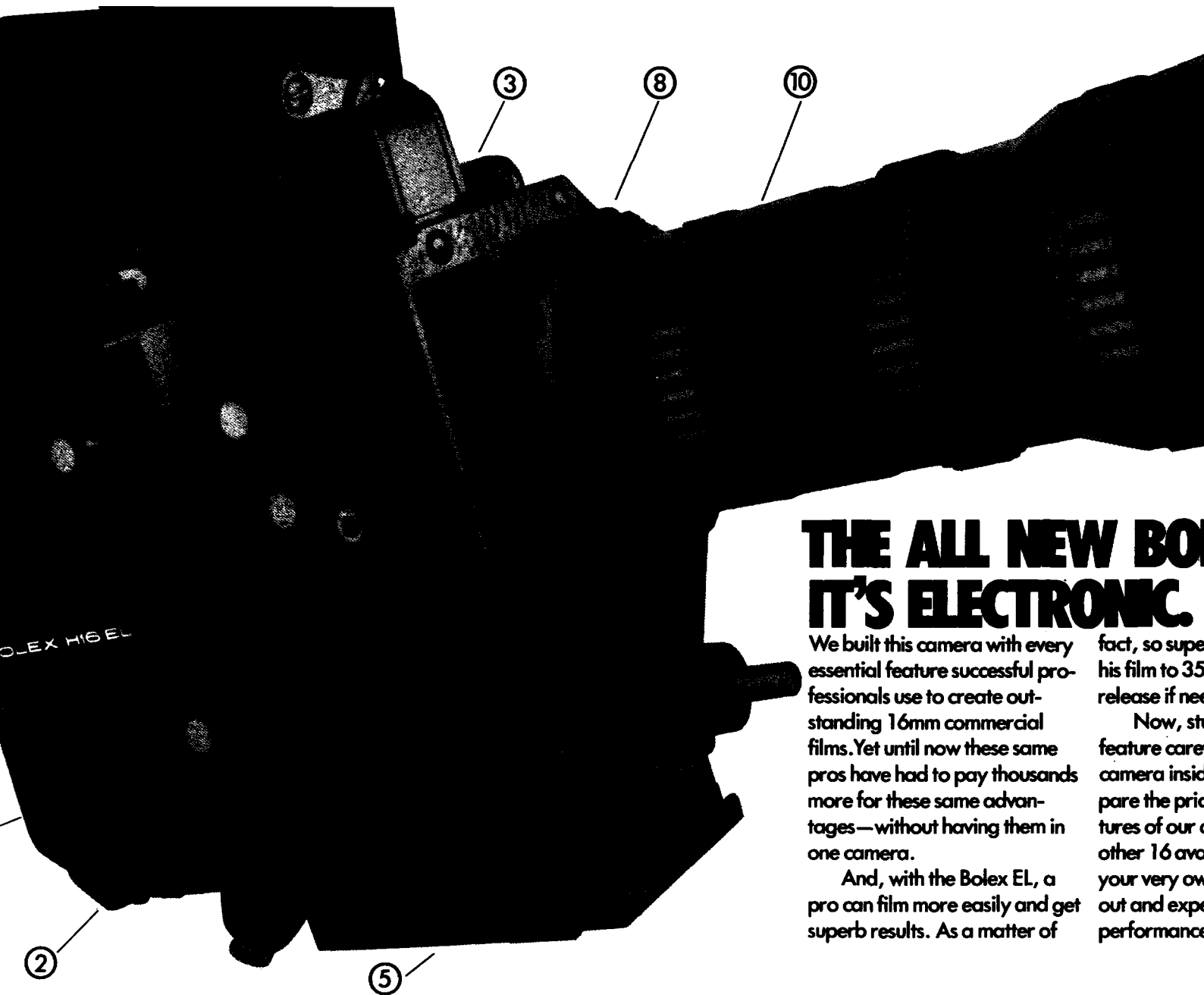
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priced at \$329.50. The 235B is priced at \$244.50.

**Kodak Ektachrome EF film 7242** (tungsten) with a magnetic prestripe is available in 50-ft super-8 cartridges, it was announced by Eastman Kodak Co. The film can be used for single-system sound filming with equipment such as the Kodak Ektasound and Supermatic sound cameras. Applications include color newsreel photography, nighttime sports coverage and industrial film production. The film is available in super-8 sound cartridges at a price of \$4.15.

The **Jewel Mini 8 S 8** sound stripe applicator is available in the United States as the result of an agreement between the Munich manufacturer and Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The fully motorized applicator is used to laminate high-quality (Agfa F5) 0.8mm-wide magnetic tape striping to the edge of 8mm or super-8 film. It can be used also to laminate 0.5mm-wide balance striping to the opposite edge of the film. Its reel capacity is 600 ft of acetate-base film. The Jewel Mini 8 S 8 sound stripe applicator is priced at \$199.95.

The **MP-30 portable 35mm** sound projector, introduced earlier in a standard model by Alan Gordon Enterprises Inc., 5362 North Cahuenga Blvd., North Hollywood, CA 91601, is now available with magnetic interlock for two-strand projection. The machine, designated the MP-30M, is easily transportable. It can be used with 110-V power or can

be driven by a gas generator. The new magnetic interlock feature allows filmmakers on location to view dailies before composite (married) prints are available. Price of the MP-30M is \$3,995.

The **Beseler Cue/See Programmer** has been announced by Charles Beseler Co., 8 Fernwood Rd., Florham Park, NJ 07932. With the aid of the new device, an audiocassette containing the soundtrack for a corresponding super-8 film can be programmed to automatically advance the film at the appropriate rate of motion when played back on the Beseler Cue/See Projector. Frame rates automatically selectable with the Programmer include 1, 2, 4, 6, 9, 12, 15, 18, 21 and 24 frames/s all with continuous sound. The Programmer can also be set to Variable Control for selection of any frame rate on a continuum between 1 and 24 frames/s with automatic maintenance of the selected rate. A frame counter on the face of the instrument permits the user to monitor the number of frames elapsed as the tape is programmed. The Manual mode on the Programmer is used to advance the film one frame at a time at any desired rate by pressing a button, thus allowing the creation of filmstrip-type presentations where the narration describes a visual subject best shown in a still frame on the screen, eliminating the need for repetitive frames of film to show a still subject. The Programmer is normally used with two-track reel-to-reel recorders to prepare Cue/See program masters for later duplication onto audiocassettes; it can also be used with standard two-track cassette recorders. The Cue/See Programmer is priced at \$2,295 for 117-V ac operation. A model for

European 220/240-V ac operation is also available.

The **Autosystem-7**, a new all-purpose digital test system for photographic equipment has been announced by National Camera, Inc., 2000 West Union Ave., Englewood, CO 80110. The instrument provides readouts in EV (Exposure Value), AV (Aperture Value) and milliseconds for all functions of still and motion-picture cameras incorporating automatic exposure controls. The instrument provides digital readout of integrated exposure, maximum aperture attained during exposure, effective shutter open time, total shutter open time, flash synchronization interval and leading and trailing curtain travel time. Capabilities include automatic indication of motion-picture first frame exposure, aperture and open time for fast diagnosis of camera startup problems; automatic selection of single exposure or motion-picture operating mode; automatic selection of fast or slow timing range from 0.01 ms to 99.99 ms or from 0.100 s to 9.999 s; and 12 switch-selectable film speed settings from ASA 25 to ASA 640. The system is priced at about \$1,600.



The **224-A Mk IV**, the 1975 version of the 224-A Mk II 16mm Photo-Optical Data Analyzer (*Journal*, p. 899, Oct. 1973) has been announced by L-W International, Photo Instrumentation and Video Display Div., 6416 Variel Ave., Woodland Hills, CA 91364. The 224-A Mk IV is an all-solid-state machine without mechanical parts. It provides flicker-free projection at rates of 1, 2, 4, 6, and 12 frames/s and variable 16-24 frames/s. Features include instant stop and start and forward/reverse by remote control. The price is \$1,645. It is also available in a super-8 format at the same price.

Also announced was the 224-A Special, a simplified version of the 224-A Mk IV, identical in every respect except that it does not have the intermediate speeds. It provides variable 16-24 frames/s, instant stop for still picture viewing, frame-by-frame advance by pushbutton control and other features. The price is \$1,495.

The Model 110 Photo-Optical Digitizer is based on the 224-A Mk IV. The projectors may be operated from a built-in control panel on the Digitizer console including rapid 24 frames/s advance and sampling mode. Function controls for the Digitizer, the X-Y digital display, the optical angle and frame count display are located directly above the viewing

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