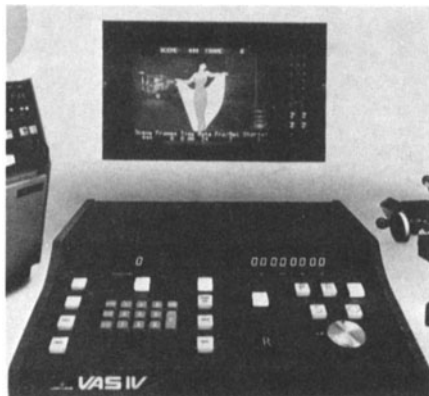


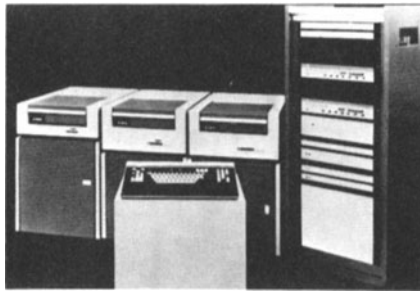
# NEW PRODUCTS AND DEVELOPMENTS

The VAS IV video animation system has been announced by Lyon Lamb, 8255 Beverly Blvd., Los Angeles, CA 90048. The new broadcast system features a microprocessor-based animation controller and provides fail-safe frame-by-frame video recording and editing by incorporating an exclusive Vertical Interval Frame Code generator/reader. VAS IV records camera-ready artwork, models, or computer-generated graphics at either 24 or 30 frames/s directly onto 3/4-in U-matic or 1-in Type C video formats. The system merges animation with video technology, eliminating the film stage and allowing video special effects to be integrated into animation production. Features include updating monitor display of all animation operations, simple editing and replacement of single or multiple frames, automatic search and cue, SMPTE time code display, remote recorder controls, RS 232 computer interface, artwork register, camera mix (rotoscope), and scene and individual frame numbering laid down in the vertical interval. The Vertical Frame Code is designed to maintain field-to-field accuracy and to prevent loss of even a single frame whether or not the tape is in motion.



VAS IV is available as a complete system or in components. It consists of the microprocessor-based animation controller, Ikegami camera, studio monitor, professional animation stand, and optional VAS-CS four-axis computerized motion control system. The animation controller alone is priced at \$15,000.

**IRIS, a PAL digital video still store system** that allows an operator to create, store, and manipulate up to 3,264 stills on-line, has been announced by Harris Video Systems,



1255 East Arques Ave., Sunnyvale, CA 94086. The system can store digital video images on magnetic disks using inputs from videotape recorders, video cameras, imaging systems, x-ray display systems, and other instrumentation systems with PAL video signal outputs. Stills can be created from existing slides and/or artwork. Systems can be configured to give

from one to three users on-line access to the 3,264 individually cataloged images. Off-line still storage is limited only by the physical space available.

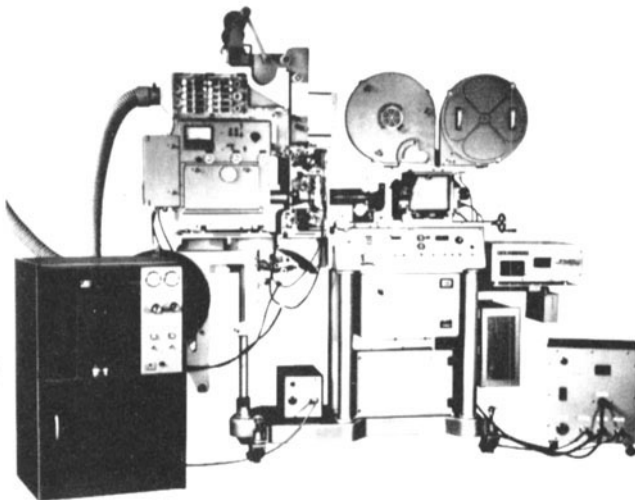
The basic system consists of a free-standing keyboard with dedicated keys for almost all functions, a Z80 microcomputer for operational commands, a disk controller that can handle up to eight industry-standard SMD disk drives of varying capacities, and an HVS Digital 631 Synchronizer to provide video input and output processing and image manipulation.

**An ESP R portable digital store system** using 14-in fixed disk drives has been announced by ADDA Corp., 1671 Dell Ave., Campbell, CA 95008. The system has been ruggedized for remotes or on-location use. A 14-in Winchester type disk permits

## Reliable and High Quality Printers!

(Above)  
High speed optical picture printer, model DHP-1A with liquid gate & support system

(Below)  
Optical sound reduction printer, model SS-5, for 35mm to 16mm or 16mm to S8



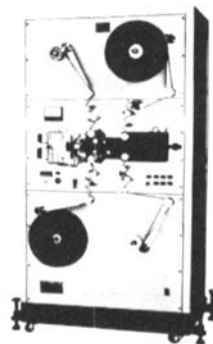
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# Why is Aäton alone?

Super 16 is getting a lot of publicity\* these days. The reasons are many, the first being simply the 40% increase of usable image dimensions for 35 mm blow up. That, plus high definition TV (in 1 : 1.66 format ratio, 1200 horizontal lines) is one of the principal motivations of going from 16 to Super 16. People are going from 35 to Super 16 as well. The reason is economics : not just the raw stock, but running expenses, cost of equipment purchase or rental.

But why is the Aäton 7LTR alone in being chosen for Super 16 applications? Why do discerning filmmakers prefer the Aäton to other 16 mm cameras when it comes to blow-up?



## The answer is image quality.

The Aäton 7LTR is the only 16 mm camera originally designed with both Super 16 and standard 16. This doesn't mean just an interchangeable aperture plate with a wider gate : any camera manufacturer can do that. It means *optimum image steadiness : vertically, horizontally and in depth.*

**Vertical steadiness** is ensured by various means : some cameras have registration pins... With its absolutely linear claw movement, the Aäton LTR positive claw provides vertical steadiness in the range of 1/2000th of image dimensions.



Bob Young chose the best equipment available for the film he directed in order to study the relative merits of Super 16 and 35 mm. The results — very favorable for Super 16 — can be seen at Du Art Laboratories in New York. (Photo : Diane Young.)

The Aäton meets the same tolerances for **horizontal steadiness**, because the film is positioned laterally with micron accuracy at the gate. Some other cameras have no lateral positioning system whatsoever at the gate... and the projected images weave from left to right.

**In-depth steadiness** is obtained by maintaining the film firmly in the same plane at all times : this is easy in the LTR, because the film loop is long and flat, and the rear image pressure plate spring loaded so as to keep the film in place firmly. Such a system obviously provides better steadiness than one in which the film «floats» over the aperture.

With the progress of lenses and film stocks, with the promise of high definition TV to come, Super 16 has an enormous potential.

**Film-makers** : think about Super 16, the standard for 16 mm film. **Be demanding** : ask for more than just a bigger aperture.

**Camera manufacturers** : join us.

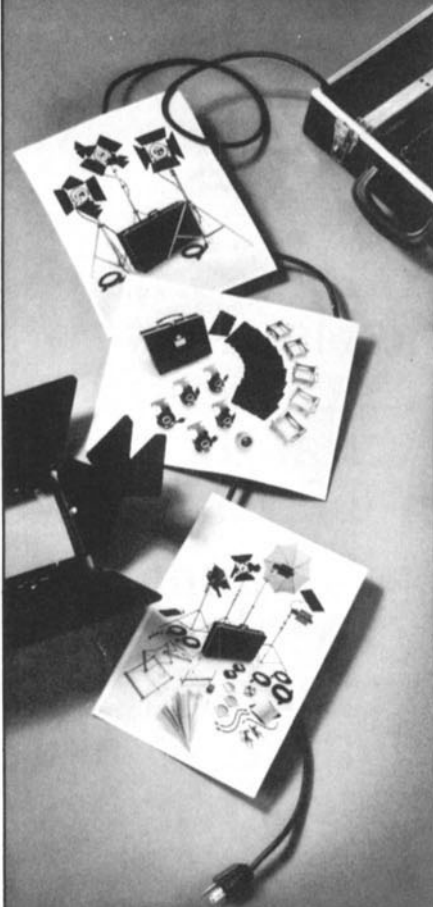
**Super 16 is the future of the 16 mm film medium.**

# Aäton alone

1697 Broadway  
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\* Articles in the American Cinematographer. Sept. and Nov. 1981 by Irwin Young & Rune Ericson respectively, in Eyepiece (London) by David Samuelson : papers presented at SMPTE 1980 Technical Conference by Irwin Young, and at Film'81 in London.

## How to get the kit without the caboodle.

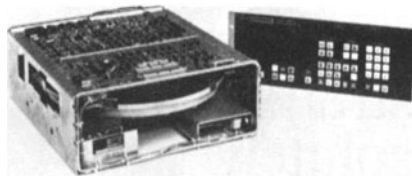


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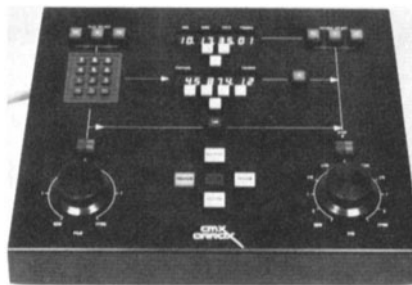
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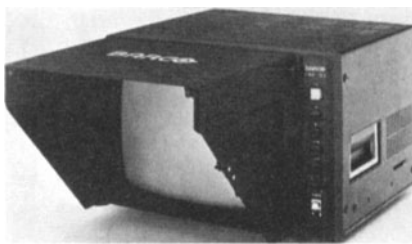


storage of up to 80 stills per drive. The ESP R can be used in limited space applications such as mobile facilities. It is priced at about \$70,000.



**The FLM-1 computer-assisted film editor controller** has been announced by CMX/Orrox, 3303 Scott Blvd., Santa Clara, CA 95050. The device permits a film editor to build up a visual and audio representation of his editing decision on videotape without cutting any film.

**Two Barco color television monitors** designed to produce high resolution pictures have been announced by Elector, 5128 Calle del Sol, Santa Clara, CA 95050, a United States distributor of Barco television products. The CM-33 (13-in high resolution P1L) is designed for ENG/EFP applications as well as for post-production facility applications. A folding hood permits viewing in high intensity light conditions.

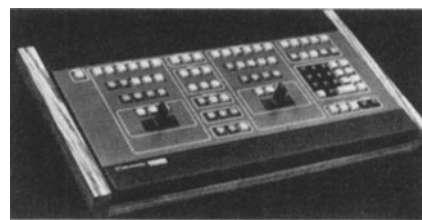


The CM-51B HIR is designed for broadcast applications including commercial playback preview, studio audience viewing, and industrial and educational installations. Both monitors offer high resolution 0.33 mm dotted screen, shadow mask in line gun picture tubes with seven MHz amplifiers. Switchable RCB modules are optional.

The CM-33B HIR is priced at \$2,475, and the CM-51B HIR is priced at \$3,275.

**The Elicon Camera Control System**, a repeat pass miniature and graphics filming system, has been announced by Elicon, 254 Viking Ave., Brea, CA 92621. It is a mul-

tiaxis camera motion control system utilizing a Digital Equipment Corp. POP-11 minicomputer and state-of-the-art servo technology developed by Elicon. The system uses a ground track and a boom arm configuration to provide maximum move capability with minimum lighting interference. The camera can pan, tilt, move forward, and reverse along the track; it is also capable of moving in an arc across the track as well as vertically above the track. The system includes the Elicon Follow Focus system which is capable of focusing through 1 to 1. New lenses can be added by entering the focal length of those lenses into the computer.



**A post-production videotape editor** with A/B roll and switcher control has been announced by Videomedia, Inc., 250 North Wolfe Rd., Sunnyvale, CA 94086. Called the Z6000-D, the system has multi-bus, multiprocessor control allowing users to intermix SMPTE time code, control track, and Micro-Loc, Videomedia's code. Features include distributed intelligent interfaces for control of the transports. Each transport has its own individual microprocessor controlling it, which means that it is not subject to timing discrepancies. Base price of the Z6000-D is \$22,500.

**A new series of auto-iris lenses** specially designed for high-sensitivity and general purpose CCTV cameras has been announced by Cosmicar Lens Div., Pentax Corp., 35 Inverness Drive East, Englewood, CO 80112. Designated the ES-II series, the lenses provide automatic adjustment of light output for use over a wide range of lighting conditions. Automatic control is all the way from fully open ( $f/1.4$ ) to nearly completely closed ( $f/360$ ), and response is rapid, requiring only 500 ms to make the light adjustment. The drive motor and control circuitry are built into the lens housing to ensure small size and light weight. Motor-drive voltage is not critical and can operate over a range of 9 to 18 V dc without requiring adjustment. The ES-II series consists of six lenses with focal lengths ranging from 8.5 to 75 mm. They can be used as normal, wide-angle, or telephoto lenses for  $\frac{2}{3}$ -in or 1-in vidicon CCTV cameras.

**The Beaulieu 6008 PRO super-8 camera** designed for professional use has been announced by Beaulieu Cinema, 1645 Bank Street, Ottawa, Ont. K1V 721, Canada. Features include a shutter mirror to allow



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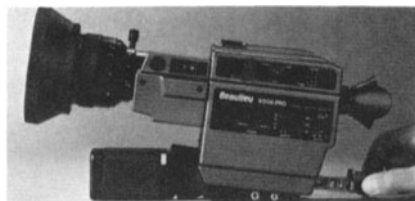
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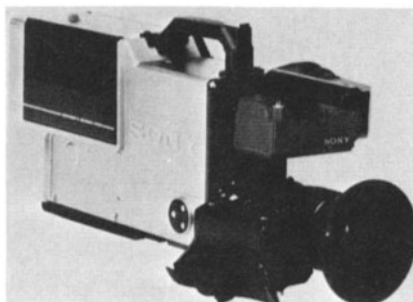
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true reflex viewing, interchangeable lenses to allow filming in any conditions, and special effects. The camera has eight filming speeds ranging from single frame to 80 frames/s, and all speeds can be used with sound or silent 50-ft or 200-ft magazines. All the electronic components are integrated into a single printed circuit. To minimize the risk of interference, the length of connections between components has been greatly reduced. The 6008 PRO fitted with the Beaulieu lens weighs less than 4 lb.



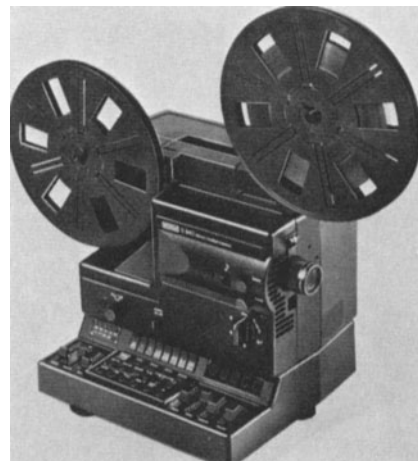
A portable single-unit video camera  $\frac{1}{2}$ -in VTR for broadcast use has been developed by Sony Video Products Co., 9 W. 57 St., New York, NY 10019. The unit, called the BVW-1 VTR-In-Camera, weighs about 15 lb, including lens and battery. It has system compatibility with any U-matic of 1-in videotape recording system. The BVW-1 uses a new high band SMF Tricon single pickup tube with full NTSC bandwidth capability. The  $\frac{1}{2}$ -in VTR recording system utilizes an L-500 Beta videocassette. The BVW-1 is expected to be commercially available in the spring of 1982.

Two new pinhole CCTV lenses designed especially for hidden surveillance systems and industrial television applications have been announced by the Cosmicar Lens Div., 35 Inverness Drive East, Englewood, CO 80112. Both the straight-through Model C30900 and the right-angle Model C30901 (shown above) are used to permit a  $\frac{2}{3}$ -in vidicon CCTV camera to see through a small hole not much more than  $\frac{1}{10}$ -in in diameter. An important application for the lenses is in industrial television systems where the camera must see through small openings such as in a furnace or in some industrial process operation. The right-angle model can be used where a compact housing that does not protrude from the equipment being viewed is required.

Both lenses are  $f/3.4$  fixed-focus types, with all objects from about 12 in to infinity



being in focus without adjustment. The lenses have focal lengths of 9 mm to produce a wide angle image of more than  $60^\circ$  and adjustable apertures from  $f/3.4$  to  $f/22$ . Internal construction consists of 12 groups with a total of 14 lens elements.



The S940 stereo multiprocessor super 8 sound projector has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. An electronic keyboard allows the user to program the projector for an array of sound effects. It can be programmed for three separate types of sound transitions — abrupt cuts, gradual fades, and cross-fades — in both recording and playback as well as for such basic functions as play, record, fade, and transfer from track to track. A sophisticated, logic-controlled record/playback function board allows the user to “play” the keyboard, controlling every function. Track selector keys can choose either main or balance track or a combination of the two in either mono or stereo.

# Introducing Electronic Cinematography

Ikegami takes the film concept, cinematography, and makes it a video reality. And what makes this possible is the Ikegami EC-35 electronic cinematography camera. It looks, handles and performs like a 35mm cine camera. So now you can shoot film-quality television productions on video tape instead of film... faster, easier and at lower cost.

The unique optical system accepts a variety of prime and zoom lenses designed by Canon and Fujinon. And, because the lens ideas come from 35mm cine cameras, you'll find T-stops as well as familiar viewing angles.

To bring out the best in the unique optical system, advanced electronic circuitry is employed. For example, a specially designed FET preamp, used in conjunction with 2/3" low-capacitance diode-gun Plumbicon\* tubes, operated in a high voltage mode, deliver an extra-ordinary S/N of 57 dB. The EC-35's

ability to compress highlights while retaining detail, combined with a full complement of operational auto-matics, make it probably the best video camera available today.

As for handling, the EC-35 is very similar to a 35mm cine camera. On the tripod or off, it lets you use film techniques and lighting. And you'll find familiar features like a matte box, and follow-focus mechanism. What's more, the EC-35 utilizes the Emmy-award winning digital techniques that assist in the adjustment of routine daily functions. So you can spend more time shooting.

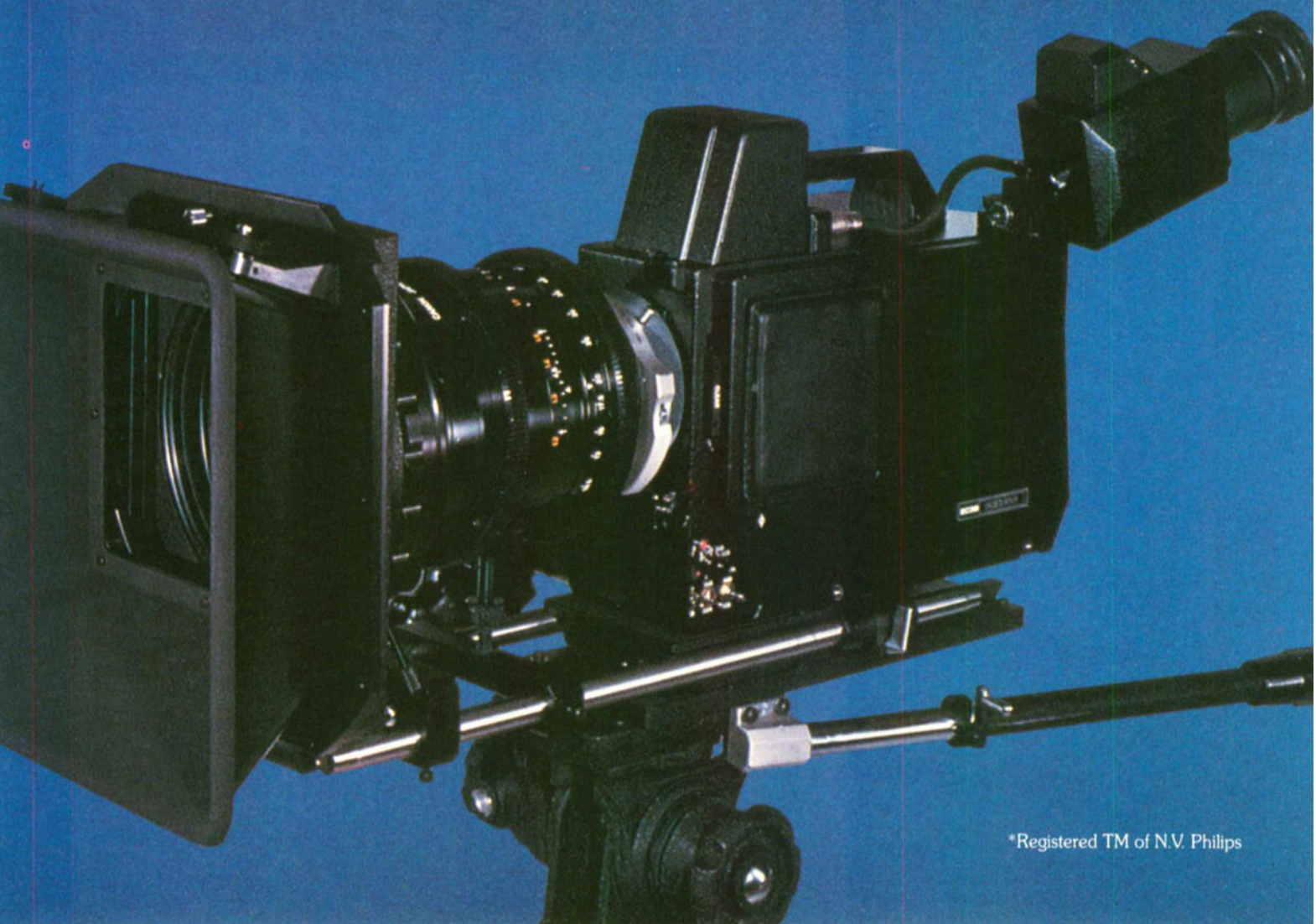
For a demonstration of electronic cinematography, contact Ikegami.



## Ikegami EC-35

Ikegami Electronics (USA) Inc., 37 Brook Avenue, Maywood, NJ 07607. (201) 368-9171

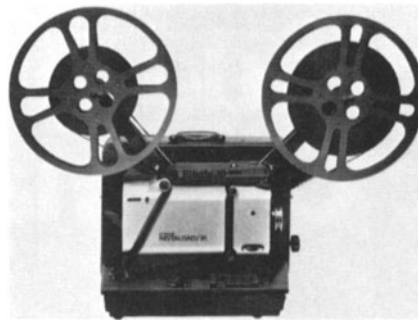
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\*Registered TM of N.V. Philips

The projection system has a bright 15 V, 150 W tungsten halogen bulb and  $f/1.2$ , 12.5-25 mm multicoated zoom lens. There is an 800-ft reel capacity with automatic threading onto the reel. The S940 is priced at about \$1000.

**The Insta-Load XL**, a 16-mm motion picture projector, has been announced by Singer Education Systems, P.O. Box 480, Cathedral Sta., Boston, MA 02118. The projector uses a microphone with a separate level control that enables the user to speak over the film as it is being shown or to use it independently as a public address



system. Features include a 25-W solid state amplifier and front-mounted twin 5-in

speakers. The projector is equipped with a 2-in  $f/1.2$  lens. Accessory lenses range from  $5/8$ -in through 4-in including zoom converter. High speed in-path forward and reverse modes are protected by a safety interlock system to guard against film damage when rewinding or preselecting program segments. The entire system is operated with color-coded pushbuttons. Other features include automatic loop resetting, rack and pinion focusing, slider type tone and volume controls, and a built-in film footage counter.



**The S907 super 8 sound projector** has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. It has manual and automatic recording level control with a VU meter, a 6-W music power, 4-W rms amplifier, and sound-on-sound recording. The projector has a 17-30 mm  $f/1.4$  multicoated zoom lens. Features include a handy coaxial reel system, continuously variable speeds between 18 and 24 frames/s, fully automatic threading and take-up, and a 12-V, 100-W tungsten halogen lamp. The price is about \$316.



**A 425-W, 120-V Quartzline® tungsten-halogen lamp** has been introduced by General Electric Co., Nela Park No. 1180, Cleveland, OH 44112. It is designed to reduce energy costs while producing 81% as much light as a standard 500-W T3 tungsten-halogen lamp. The new 425-W lamp can be retrofitted in all existing fixtures using standard Q500T3/CL lamps. The lamp produces 8900 average initial lumens and is rated at 8600 average mean lumens. It has a 2000 hour average rated life.


**The LCL-30 Beta-format videocassette head cleaner** has been introduced by TDK Electronics Corp., 755 Eastgate Blvd., Garden City, NY 11530. It is said to provide 200 cleanings in the normal speed (Beta II) mode. Inserted into a VCR unit

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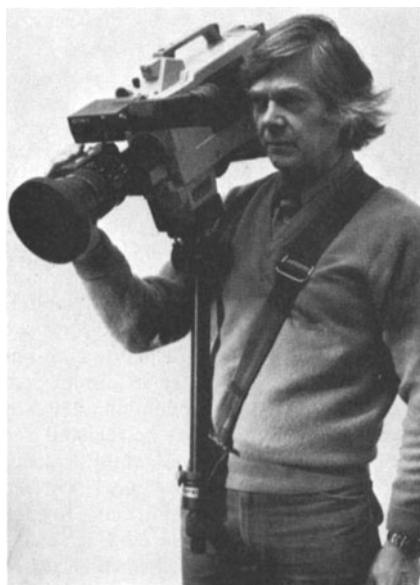
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like any other videocassette, the TDK cleaner is reported to remove virtually all dust and oxide deposits from the VCR's audio record head, audio erase head, and video record/playback head. The LCL-30 is priced at about \$25.

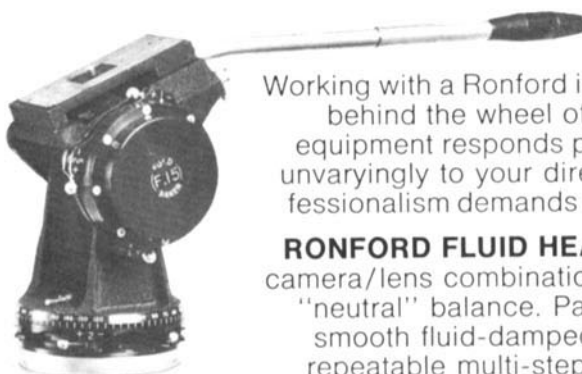
A range of professional audio modules manufactured by Philip Drake Electronics, Ltd., has been introduced by Television Equipment Associates, Box 260, South Salem, NY 10590. The style of construction is a 19-in rack mounting frame housing plug-in modules and rear connector units. Each module receives unregulated dc power from a central ac power supply module. Modules and their rear connector units can be added to an unfilled rack frame without disturbing the existing wiring. The range of modules includes a fixed frequency oscillator, a line send amplifier, a single and dual channel audio distribution amplifier, an eight-into-one audio switcher, and a self-powered 25-W amplifier with a remote dc level control option.



**Supapod 2**, a combination shoulder brace and telescopic mono-pad for use with most video cameras, has been announced by Wilson Film Services, 25 Harwood Close, Tewin, Welwyn, Herts AL6 0LF, England. Supapod 2 has a lightweight tilting head complete with locking and drag facilities. It can accept quick-release systems such as the Vinten Miniwedge or Sachtler adapters as well as the standard  $\frac{3}{8}$ - or  $\frac{1}{4}$ -in screw attachments. With the Supapod camera, weight is distributed across both shoulders, allowing the camera to be comfortably at-the-ready for long periods.

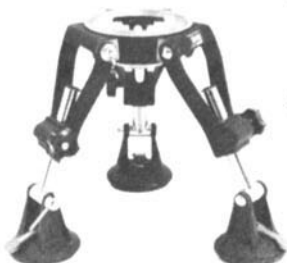
The Supapod extends from 22 to 65 in and weighs  $3\frac{1}{2}$  lb. It has been designed especially for ENG cameras, but it can also be used with film cameras and most portable video cameras.

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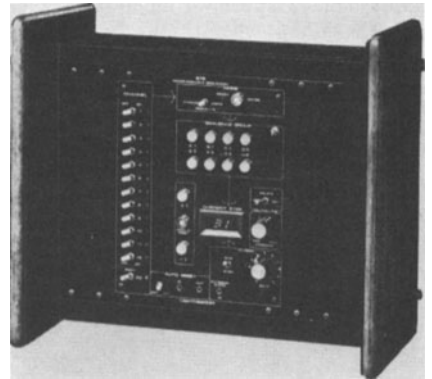
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An in-camera reticle pattern generator, the RPG-1000, has been announced by Reliable Audio Video Enterprises Inc., 71 Glenn Way, Suite No. 6, Belmont, CA 94002. A single printed circuit board, working in parallel with existing camera circuitry, eliminates the need for rack-mounted ancillary equipment and provides a safe title and action area reticle pattern for portable video cameras. In addition to generating a composite safe title and action area reticle pattern at the right, left, and top, and bottom, the pattern also provides a dead center cross-reference and four quadrant division markers to aid the camera operator in composing his target picture.

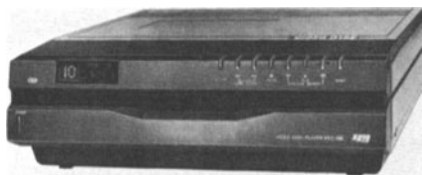


The Lighthesizer 212, an automated system that allows for on-the-scene programming of any movable electronic, electromechanical, or mechanical device, has been announced by the Great American Market, P.O. Box 178, Woodland Hills, CA 91364. Applications include theatrical lighting, scenery, trade show and television game show displays, etc. The system works with either 12 dimmers or nondimmers or with any combination. Any channel or channels may be selected and entered into one of the unit's eight sequence memories. Thirty-two steps may be entered in any configuration, latching cues to each other in any sequence desired. Each channel's activity is displayed on a series of LEDs on the front panel. In addition to 12 control panels and the eight programmable sequences with 32 steps per sequence, the system contains one master relay output switch (On/Off), one adjustable clock, and one master dimmer output. The price of the basic system is \$2495.

Nearly 150 3M products are described in a four-color brochure available from 3M, P.O. Box 33600, St. Paul, MN 55133. Products ranging widely from abrasives to videotape recorders are cataloged conveniently.

A spare parts kit designed to enable immediate on-the-spot servicing of the company's XC-700 ENG/EFP camera has been announced by Sharp Electronics Corp., 10 Keystone Pl., Paramus, NJ

07652. The kit, designated Model XC-700KT-0001, contains printed circuit boards, the power modules as complete assemblies, and the mother board. If any part in the camera breaks down, the end-user can troubleshoot the problem, remove the circuit board on which it is found, and replace the defective circuit board with a new one from the spare parts kit. The kit is priced at \$1995.



A videodisk player, model VEC 200, has been announced by Elmo Manufacturing Corp., 70 New Hyde Park Rd., New Hyde Park, NY 11040. The player uses the CED system developed by RCA. Features include rapid access in both forward and reverse at 180 times normal speed and visual search, thus permitting the viewer to search out a specific scene at 12 times normal speed. A control button is used to advance picture and sound at 2½ times normal speed. The unit weighs 19.8 lb and measures 16 × 15.5 × 5.3 in. The price is about \$500.

The Bogen Mini Fluid Head designed for lightweight cine or video cameras has been announced by Bogen Photo Corp., 100 South Van Brunt St., P.O. Box 448, Englewood, NJ 07631. Measuring 5 × 5 × 5 in and weighing 3 lb, the tripod head pans 360° and has a camera platform measuring 2¾ × 3 in. Features include a three-in-one handle which is positionable on either side and can be separated into two segments each 9 in long. The Mini Fluid Head can be tilted 45° up and 90° down continuously and has separate pan and tilt locks. The price is \$99.95.

The 6006B sync generator has been announced by Crosspoint Latch Corp., 316 Broad St., Summit, NJ 07901. The unit is an NTSC sync generator with independently phase adjustable black burst outputs. There are six black burst outputs, four of which are individually phase adjustable from the front panel for both horizontal and subcarrier. The 6006B can genlock to an incoming nonsynchronous composite video signal with front panel controls for both the subcarrier and horizontal phase adjustments. The following pulse drive outputs are also provided — five horizontal or sync (switchable internally) with four of the five front panel phase adjustable, five subcarrier with four of the five front panel phase adjustable, five vertical, two blanking and two burst flag. The unit occupies 3½-in rack space. The price is \$1990.

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