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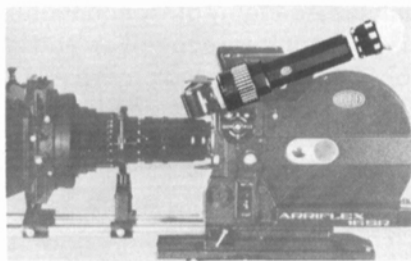
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New Products & Developments

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



Video Coupling, a video monitoring system for the Arriflex 16SR, has been announced by Arri Corp., 1 Westchester Plaza, Elmsford, NY 10523. The Video Coupling, designed by Arnold & Richter especially for the 16SR, is easy to attach. The standard viewfinder of the 16SR is replaced with a special video finder containing a combination of optical elements that bring the reflex image simultaneously to the video camera and the cameraman's viewfinder. The eyepiece is positioned on one side of the finder and the video camera on the other (see above). Optics and electronics are preadjusted and prealigned and the video camera is powered from a 12-V dc battery so that it can be used anywhere the 16SR can go. A coaxial cable connects the video output to as many as three studio monitors or modified television receivers at the same time for filming jobs where it is essential that more than one person monitor the action. By employing a suitable videotape recorder, takes can be recorded for immediate playback as an aid to production control. The Arri Video Coupling is available in three video-camera versions. They differ in the type of picture tube used, either a nuvicon, a vidicon, or a vidicon-silicon. Prices for the system start at \$4873.



A new Finder Extender for Arri 16SR cameras has been announced by Arri Corporation, 1 Westchester Plaza, Elmsford, NY 10523. The attachment is secured between the eyepiece and the regular threaded finder flange of the camera. No tools are needed. The Finder Extender puts the eyepiece of the camera about seven inches farther back than "normal." The extender is

designed to speed work when the camera is mounted on a tripod. It also facilitates filming in camera positions that would be difficult or awkward for the cameraman if he were viewing through the normal viewfinder. The Finder Extender is priced under \$1600.



The Director's Viewfinder, Model Mark IV 10:1 Zoom, has been announced by Alan Gordon Enterprises Inc., 1430 Cahuenga Blvd., Hollywood, CA 90028. The viewfinder, designed especially for film and television directors and cameramen working in 35mm and 16mm formats, has a zoom range of 10:1. In 16mm the effective range is from 12mm to 120mm; in 35mm it is from 25mm to 250mm. Other features include direct reading scale in lens focal length, optical quality coated glass, lightweight construction (13 oz), focusing eyepiece and smooth zoom movement patterned after camera zoom lenses. The viewfinder is priced at \$295.



The Nose Cone Camera Position, a device enabling filming or taping air-to-air or air-to-ground, has been announced by Continental Camera Systems, Inc., 16800 Roscoe Blvd., Van Nuys, CA 91406, in conjunction with Clay Lacy Aviation of Van Nuys. Fitted to a Lear Jet 25, the Nose Cone is placed in position after removal of the radar cone package and is fitted with an

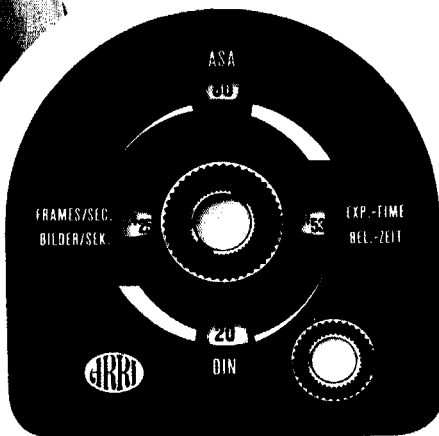
The basic filming tool. 6 lb body, reflex viewing, pin-registered movement, tachometer, 100 ft daylight load spools.



Veteran workhorse rejuvenated: Now you can add APEC to your 16S/B

Plus fiber optics, crystal control, and the many other components of the 16S/B system.

If your 16S/B is S/N 12001 or higher, you can buy a door with APEC built in.



APEC does not mean automatic exposure. It's a built-in meter with its needle visible in the finder.

With your eye at the eyepiece, you can frame, focus *and* set the f stop. The through-the-lens APEC system tells you precisely how much light is getting to the film.

Zooming in for an APEC reading is a lot faster than walking onto the set. And sometimes it's not easy to *get* there. Shooting surgery, for example; or timber wolves. Or a speaker at the podium. Or fungus through a microscope.

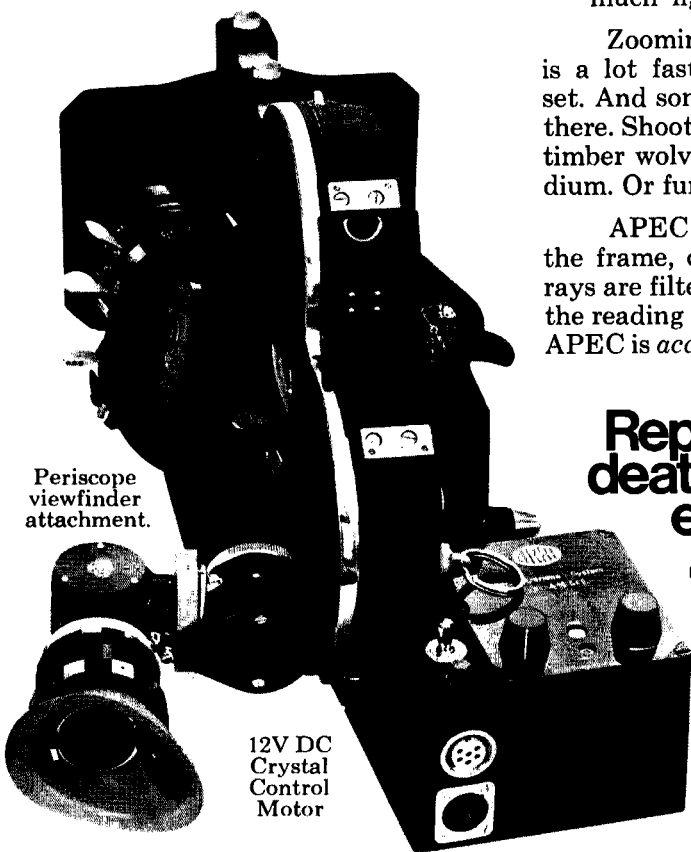
APEC reads the central third of the frame, off the mirror shutter. UV rays are filtered out. ND wedges center the reading on the cell's response curve. APEC is *accurate*.

400 ft magazines, animation motor, intervalometer, over 30 lenses, including four T1.3s.



The 16S/B is continually being updated. APEC is one example. Here are some others:

Fiber Optic Screens (with aperture markings) to replace your ground-glass: Better light transmission, easier focusing. A Bridge Plate for balancing long lenses and mounting matte boxes. A crystal control Universal Motor (with Pilotone) that also runs at speeds from 0 to 50 fps and single frame.



Reports of its death have been exaggerated:

16S/B

ARRI

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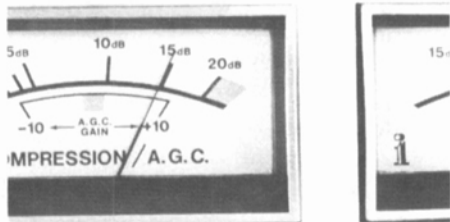
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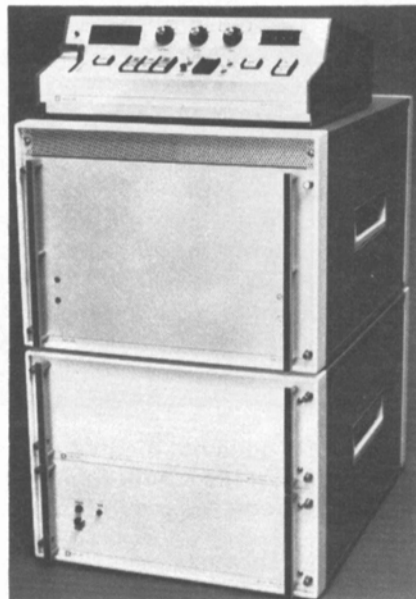
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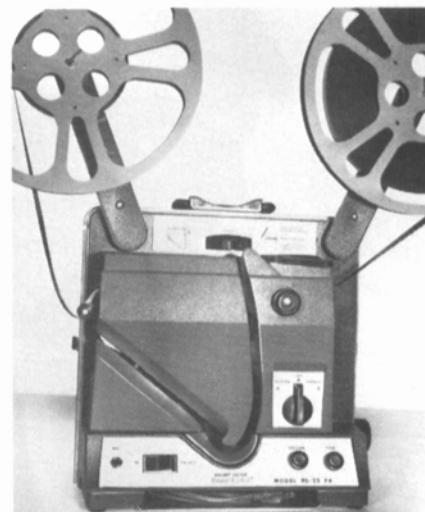
optically correct dome right in the front of the aircraft. The maximum field of view is 220°. Cameras acceptable to the system are Arriflex S 16mm, RCA TK 76 and other small ENG cameras. Full video monitoring is part of the system for both cameraman and pilot. Quick release catches mount the Nose Cone to the Lear 25 so that upon landing the engines of the Lear Jet can be kept running while fast magazine changes are made. The Nose Cone is an addition to Continental's Astrovision System. All controls are made by the cameraman from inside the cabin. The Nose Cone is available on a rental basis at a fee of \$500 a day.



Two broadcast videodisc recorders, the BDR-400 slow motion disc recorder and the BDR-300 slide-file disc recorder have been announced by Oktel Corp., 1731 Dell Ave., Campbell, CA 95008. The BDR-400 (shown above) provides 30 s of real time broadcast-quality color video with continuously variable slow motion, forward and reverse. Features include switchable fixed rates for record and playback, single-field playback, and electronic display of elapsed time with two cue markers.

The BDR-300 is capable of storing up to 1200 frame slides which provide full vertical resolution. Features include a preset/reset address control that allows heads to be moved to any preselected track with a maximum search time of 3.8 s. Up to four fixed-head channels are available as options to provide program continuity. Both units meet domestic and international color television standards including NTSC, PAL and SECAM. Price of each unit is around \$40,000 depending on options.

Two new Kalart Victor Easy-Load® 16mm projectors have been announced by Kalart Victor Corp., Plainville, CT 06062. The Model 90-25PA is equipped with a special microphone jack to permit the use of the 25-W amplifier as a public address system. The projector is easy to operate. The film is inserted in the slot, the lever is lowered, the switch turned on and the projector is in operation. Features include a switch on the control panel with public address and projection modes. When in the PA mode the amplifier and speaker can be used as a PA system. When regular optical sound film is used the switch is in the projection mode and the projector is operated in the normal manner. Price of the 90-25PA is \$909.



Also announced was the Model 90-25MC3 16 mm projector with a Marc 300 light source and power supply. The light source is said to be capable of producing about four times more light than a 1000-W incandescent lamp. Features include a separate switch for on/off fan for the projection lamp. When the projection has been completed, the switch can be put in the fan mode to cool the lamp. Price of the 90-25MC3 is \$1940.



The ECS-1BVU Joystick Editing Control System, available on the Sony BVU-200 broadcast videocassette recorder, has been announced by Convergence Corp., 17935 Sky Park Circle, Irvine, CA 92714. The system interfaces to helical scan videocassettes for tape-to-tape and camera-to-tape editing. It provides flexibility in both on-line and off-line tape-to-tape editing applications. The system is similar to the earlier ECS-1B editing control system (shown above) designed especially for on-line editing applications such as ENG, commercials, documentaries and educational, industrial and medical training tapes. The ECS-1B is priced at \$5600. The ECS-1BVU is priced at \$6700.

The Vinten Kestrel OB camera crane with a load capacity of 500 lb has been announced by W. Vinten Ltd., Western Way, Bury St. Edmunds, Suffolk, IP33 3TB, England, and by their U.S. agent, Listec Television Equipment Corp., 39 Cain Dr., Plainview, NY 11803. Designed for two-man operation (tracker and cameraman), the jib elevation, steering and tracking are controlled from the rear of the crane by the tracker. A lateral wheel controls the rear steering assembly and a vertical wheel/handle operates the jib. When the jib load of camera and cameraman is in balance it can be easily moved by the tracker through a 54-in range of movement



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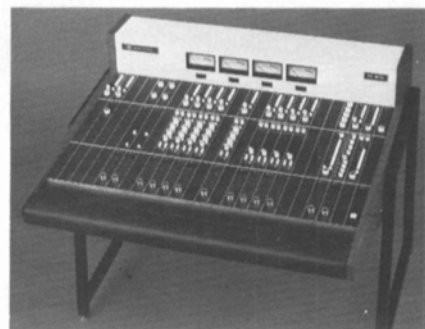


Frezzolini Electronics Inc.
7 Valley St. Hawthorne, N.J. 07506 USA



using the elevation wheel. The platform assembly comprises a steel center column enclosed by removable spacers 7 in high which give two camera height ranges. On this is pivoted the mounting for the seat and the pan and tilt head, which is capable of full 360° rotation. The front wheels pivot inward reducing the total width of the crane for passage through doorways. Pneumatic OB wheels can be replaced by solid wheels for studio use. The approximate lens height range is 4 ft to 8 1/2 ft. The crane is available in two models. The manual version, Model 743, is priced at \$15,500. The powered version, Model 754, is \$18,500. Optional adjustable cable guards and hard rubber wheels (for studio use) are an additional \$1000.

release monitor mounting independent of the camera, and a combined remote monitor power transformer which can be used as a compensating weight. The assembly mounts easily on and off the pan bar for quick conversion back to normal studio operation. Price of the single monitor system (including coaxial cables) is \$5490. A double system with two Digivision Prompter Units is priced at \$6990.



A modular mono/stereo audio console, the M90, for AM-FM-TV, on-air and production, has been announced by Harris Corp., Broadcast Products Div., P.O. Box 290, Quincy, IL 62301. The console is expandable, completely modular and has a wide range of operating characteristics. The standard configuration offers a maximum of 56 inputs with more available on special order. The input modules provide microphone and line level input selection, switchable hi-pass/low-pass filters, gain trim, optional 3-section equalization, access to two echo send channels and a post- or prefader solo/cue system. Input levels from -70 dBm to +20 dBm can be accommodated. Up to 26 mixing positions are available employing specially designed linear mono and stereo plug-in faders. The console is available with 2, 4 or 8 program outputs offering combination of mono, stereo and sum channels. Metering is provided in VU or peak reading. Monitoring facilities are versatile and extensive. Prices for the M90 console range from \$8500 to \$15,000 depending on the model and options.



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Tripod with Miller F fluid head, O'Connor 30 or Ronford F-2 fluid head, lightweight, totally adjustable, ball level, rising column, carry handle, shoulder strap, accessory hanger hooks, weatherproof.



Super Stix alone	\$350.00
Super Stix with Miller F	\$695.00
Super Stix with Ronford F-2...	\$995.00
Super Stix with O'Connor 30 ..	\$895.00

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The Telecue Monitor Prompting System featuring a built-in video distribution amplifier, balanced on-camera prompters and low light loss has been announced by Listec Television Equipment Corp., 39 Cain Dr., Plainview, NY 11803. The system consists of the 702 Script Drive Unit and the Digivision Prompter Unit. The drive unit incorporates a self-aligning caterpillar drive for scripts of variable width up to 8 1/2 in and thickness of 3/16 in including staples. It has a rigidly locked 2/3-in vidicon camera complete with lens and three independently choked fluorescent lamps. Other features include an internal video distribution amplifier for multiple monitor display and maximum protection against picture interference, and variable speed controls — local or remote, foot or hand and forward or reverse. The prompter unit consists of a 12-in monitor, an optically flat antireflectant coated glass viewer assembly, a quick

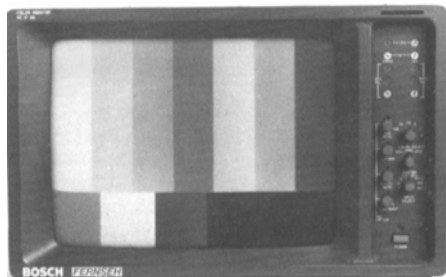


The Computer Interface Model SA1142, designed to interface Marconi Model 2370 Spectrum Analyzer with the most commonly used computers, has been announced by Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. Data and control signals derived from the digital memory display of the spectrum analyzer are routed to the computer interface which converts the information into a form suitable for manipulation by the computer either in an 8-line or a 16-line format. Once the information is stored in the computer, the potential for analysis of the frequency spectrum is enhanced, thus expanding the usefulness of the Model 2370 Spectrum Analyzer. The display of the 110 MHz spectral analyzer can be interfaced to a computer system; a high definition display can be input into core within 13.1 ms. Price of the interface Model SA1142 is \$1495. An illustrated brochure giving technical details of the system is available from Marconi Instruments.

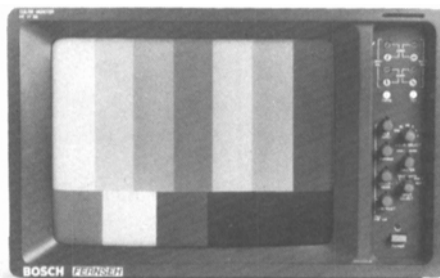
Two in-line monitors from Bosch that will not hide picture defects

A finely textured mask structure in the tube will show you what your VTR is really putting out.

Bosch Fernseh
MC 37 BA



Bosch Fernseh
MC 37 BB



Certain in-line monitors are noted for their stability and pretty pictures. But they also have a reputation for hiding defects.

When you evaluate our selection of Bosch Fernseh in-line units, however, you will be face to face with the reality of your VTR's true capabilities. You will get all the picture stability inherent in the in-line concept.

But you will also get a fine enough texture to help you catch subtle video tape defects such as electronic moire and certain upper frequency noise and ringing problems.

The difference is in the mask

The secret of this remarkable resolution lies an eighth-inch behind the tube face in an extremely fine slotted mask structure.

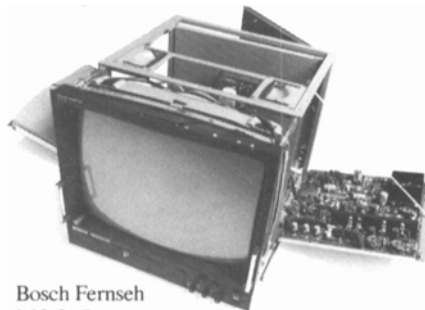
It was designed for Europe's 625-line PAL system. But by applying its fine texture to the American NTSC system, you can often see video tape defects another leading in-line tube might miss. That's because the defect will dissolve in the more coarse mask of the other picture tube.

Similar defects passing through the fine grille of one of these Bosch Fernseh in-line monitors will strike the screen undistorted.

control functions include contrast, brightness, synchronizing mode, chroma and input selection.

High resolution in a delta gun monitor

For exceptionally high resolution in 20-inch CRT, Bosch Fernseh offers the MC51BA system, our top-of-the-line with a superior quality delta gun picture tube. Circuitry covers a band width of up to 6 MHz for a test margin 1.8 million Hertz beyond legal broadcast specs.



Bosch Fernseh
MC 51 BA

For further information on the Bosch Fernseh line of color monitors write: Robert Bosch Corporation, Fernseh Group, 279 Midland Road, Saddle Brook, New Jersey 07662. Or call collect to 201/797-7400. For inquiries outside North America contact: Robert Bosch GmbH, Geschäftsbereich Fernsehanlagen, Postfach 429, D-6100 Darmstadt, Federal Republic of Germany.

Bosch Fernseh, a division of

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CORPORATION

The Full Bosch Line		
The color monitors discussed here are only a small part of the comprehensive monitor program offered by Bosch Fernseh. It includes 20 different B/W and color models developed for all television applications.		
Quality	B/W or Color	Type
Precision Monitors	B/W	M 24 BA M 38 BA
	Color	MC 37 BA MC 37 BAB MC 51 BA MC 63 BA
High-quality monitors	B/W	M 24 BB M 38 BB M 50 BB
	Color	MC 37 BB MC 51 BB P12 (67 cm)
Standard monitors	B/W	T 14 BC T 31 BC T 50 BC T 61 BC
	Color	C 21 (67 cm) C 31 (67 cm)
Special monitors	B/W Viewfinder	K BB (2.5 cm) K 14 BB

Precision and high quality units offered

The MC37BA is a precision monitor with a 15-inch CRT and a band width of 4.2 MHz. It has three 75-ohm video inputs, two of which can be superimposed for lining up chroma key shots. A three-position raster size switch gives you large, normal and small sizes. Vector output lets you do phasing and other applications.

The MC37BB is a high quality monitor designed for picture evaluation. It has two video inputs, a two-position raster size switch, and switchable color temperature.

Decoder boards convert both monitors from one television standard to another. Servicing is just as simple. Many PC boards swing out on connector hinges so operation can continue. Remote

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Magnetic Video Corporation
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 Farmington Hills, Michigan 48024
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West:
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 1136 North Highland Avenue
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A multipurpose luminaire which can change instantaneously from a spotlight to a softlight (or vice versa) has been developed by Berkey Colortran U.K., P.O. Box 5, Burrell Way, Thetford, Norfolk IP24 3RB, England. The luminaire consists of a softlight using four tungsten halogen lamps 189 mm long at one end and, at the other end, a Fresnel spotlamp using a dual filament 4-pin bi-post lamp. The change from spotlight to softlight is made by means of a pole-operated mode-selection rotary switch. Switching facilities are also provided to enable either mode to be operated on full power (5 kW) or half power (2½ kW). The pole-operated switch has progressive 360° movements with no provision for OFF. The system provides full mobility, both vertical and lateral, for all lampheads.

Provision is made to focus the spot mode from full flood to spot beam. Accessories for the spot mode include a four-bladed rotatable barn door unit fitted in the outer channel and a rotatable diffuser scrim frame mounted inside the rear channel. An outrigger gelatine frame can be used at either end of the luminaire as an accessory for the spotlight or alternatively for the softlight.

Softlight mode accessories include an egg-crate screen mounted in two vertical channels provided at the outer end on the softlight housing.

The Fresnel spot and softlight in one luminaire with pole-operated control of pan, tilt and switching functions provide efficient control of lighting in motion-picture and television studios.

SqueezeZoom, a process by which a frame synchronizer can accept up to four synchronous or non-synchronous video signals simultaneously and display them on one television screen, has been announced by Vital Industries, Inc., 3700 N.E. 53rd Ave., Gainesville, FL 32601. The picture compression may be infinitely varied from full size to zero with high definition being maintained. SqueezeZoom can freeze a full-frame color picture at the touch of a button with no flicker. Used with microwave inputs, the picture will freeze the last frame when the signal is interrupted and automatically resume its normal position when the signal is restored. Any segment of the picture can be enlarged eight times or more and positioned where desired. Remote signals and signals already on a recorder or slo-mo disk can be enlarged or compressed. A joystick positioner, like the one used in special effects, allows the positioning of the picture, whether compressed or otherwise, anywhere on or off the screen. The control panel for the

SqueezeZoom contains the input source selections for channels A, B, C, and D, as well as the individual channel controls for horizontal-vertical position, size and aspect ratio, off-on mirror image control, off-on upside down and off-on freeze controls. The SqueezeZoom is said to be the first multiple-input picture manipulating system. The system was designed as a special effects equipment capable of synchronizing non-synchronous inputs rather than as a frame synchronizer with add-on effects options.



The ADDA Frame Synchronizer, Model VW-1, has been announced by ADDA Corp., 1671 Dell Ave., Campbell, CA 95008. The unit is a fourth harmonic, digital synchronizer with the ability to lock remote, network, ENG and satellite feeds to station references. It can function as a time base corrector for heterodyne color U-matic recorder formats. Freeze frame is optional. The system can accept any NTSC-type standard. The price is under \$20,000.



A new television image enhancer/decoder with an internally-generated output suitable for chroma-key application has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. Designated Model 6220, the device accepts composite NTSC color video signals and provides both vertical and horizontal enhancement. For chroma-key operation an auxiliary output provides RGB keying signals which may be applied to the RGB chroma-key input of a switcher for chroma-key effects. An automatic detail gain control automatically adjusts the detail gain, coring adjust, level-dependent aperture equalization, horizontal and vertical balance and by-pass switch. The horizontal enhancement frequency is about 3.1 MHz; delay is approximately one horizontal line. The price of Model 6220 is \$3995.



A television character generator which features a 16-page memory capacity has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. Designated Model D-3016, it replaces the D-3000 with a 4-page memory. Three font styles are available for the D-3016 — Video Gothic, Piper Roman and Helvetica Semi-Bold. The unit can display up to 22 characters in a row and 10 rows per page. It also features 3-speed vertical roll and horizontal crawl movements and automatic centering. A title mode allows maximum use of the internal memory by permitting storage of up to 160 single-row titles. The D-3016 character generator is priced at \$6900.



The Adwar Titrer-Keyer, Model TK-1, has been announced by Adwar Video Corp., 100 Fifth Ave., New York, NY 10011. With the TK-1, titles may be keyed as positive (black) or negative (white) values and a matte capability permits inserting them, as well as any other graphics, as any brightness shade desired. The outer shape of an image photographed by one camera may be used as the external key outline for another image being keyed from a second camera. Zooming or panning this outline shape produces wipes with unusual or functional shapes. A genlock is built into the keyer and portapak cameras may be directly plugged into it. Models are available for either key or external key. The price is \$1150.



The Adwar Color Hip Switcher II, an editing device weighing only 2 lb and worn on a cameraman's belt, has been announced by Adwar Video Corp., 100 Fifth Ave., New York, NY 10011. The device permits vertical interval switching, dissolving and fading between two portable color cameras linked, through a small junction box, to a single portable color recorder. Preview buttons allow the camera operator to preview, in the camera viewfinder, images produced by either of the two cameras at any time. An On-Off switch remotely starts and stops the recorder. The Adwar Hip Switcher II permits a field crew to return with an edited two-camera first generation tape ready for broadcast, duplication or further editing. Price of the Hip Switcher II is \$1495.

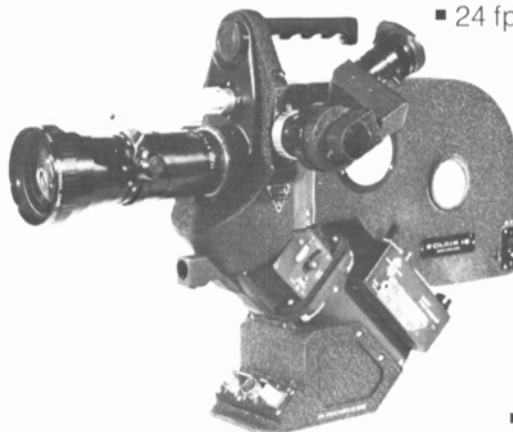


Three new video distribution amplifiers have been announced by Dynasciences, Township Line Rd., Blue Bell, PA 19422. Model 72D is a differential input VDA intended for use with signals having large amounts of hum. Hum rejection is said to be better than 55 dB.

Model 72C is designed to compensate for poor high-frequency response caused by long cable

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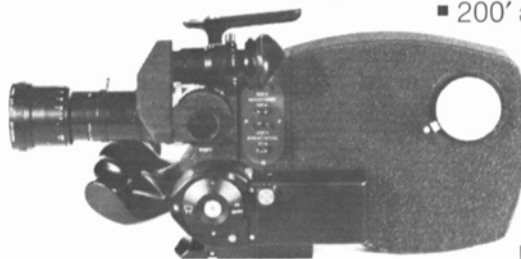


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- 400' magazine available

Eclair ACL-16

- weighs only 8½ lbs.
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- LED exposure control readout
- time coding (optional)



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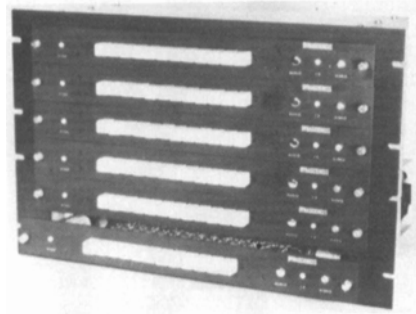
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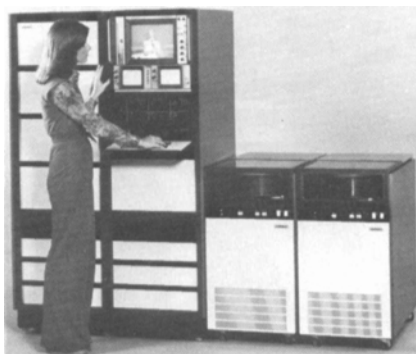
runs. It provides adjustable compensation for up to 600 ft of RG59/U cable.

Model 72 DC incorporates both the hum rejection and cable compensation features in a single amplifier. The units are all self-contained and provide four outputs from a single loop-through input. Prices begin at \$210.



Routing switchers, the 8500 series, have been announced by Dynasciences, Township Line Rd., Blue Bell, PA 19422. The 8500 series is a modular system consisting of a single rack housing up to six 12 × 1 plug-in modules. Each module contains both video and audio switching circuitry and has a self-contained power supply. Loop-through high-impedance inputs permit configurations of up to 12 × 12 without signal degradation. The system can be expanded to larger configurations through the use of external video distribution amplifiers. Prices begin at \$1029.50.

A unified noise weighting filter, Type 410-2, developed by Matthey Printed Products Ltd. in Great Britain, has been announced by Television Equipment Associates, Bourbon St, Box 260, South Salem, NY 10590. The filter is said to be one of the first to meet requirements for a single method allowing international understanding of stated noise level figures irrespective of the television system. The price is \$52.



An advanced digital video recording system that stores thousands of images and provides control in varying the video playback speed from still frame to normal play has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Designated the ESS-2, the system utilizes computer-type disc recording techniques (instead of analog methods) to offer variable record and playback. The ESS-2 can be used to create either faster or slower than real time action sequences while maintaining a broadcast quality picture. The system also provides control of video action in forward or reverse. Color or monochrome stills can be filed for momentary access for rapid assembly into a virtually unlimited array of sequences or complete programs.

Access to the production system is through

keyboard controls at the electronics or at up to eight remote locations. Each panel is equipped with a keyboard and an alphanumeric readout. Access time is less than 70 ms. A video monitor for each access point is optional. ESS-2 is offered in a one-, two-, or three-drive format. A single drive system allows the storage of hundreds of stills or up to 27 s of real time recording. Addition of a second disc drive creates even greater storage. Triple drive installations have storage capacity of up to 50,000 stills, or 81 s of real time video action.

Action sequences and still images are recorded in color or monochrome and stored in ESS-2's memory with addresses consisting of the channel number, disc pack number and track number. There are 815 tracks in each disc pack, 749 of which are dedicated to storage of action and images. The remaining 66 are reserved for storage of sequence lists and internal functions. Segments or stills can be called up from memory by keying the correct address. In less than 70 ms the image or sequence is on the monitor to permit rapid review and update of the stored files at any time. Digital storage techniques and video electronics are used throughout the system. A basic two-drive ESS-2 system is priced at \$121,500.



A time code generator, Model TCG-80N, has been announced by Skotel Corp., 1445 Provencher, Brossard, Que., Canada J4W 1Z3. The instrument can be used to record and display numerous types of identifying information on video and audio tape including the start of a program sequence, scene and take numbers, official time of sporting events, time countdowns, documentary data of data of taped experiments, etc. The User Data memory may be loaded with information from the front panel thumbwheel preset, reset to zero, or loaded from an external source. Other features include Time and User data displayed on 7-segment LEDs with a contrast enhancing filter. Full Frame, Drop Frame and Power Line modes are selectable from the front panel. Time code can be initiated from the front panel thumbwheel preset or an external source, and the unit is not affected by momentary power dropouts.

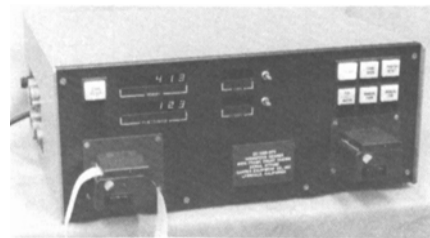
Options can be installed on a plug-in basis and include a data interface module for external data input, or jam sync when used with a time code reader and a video character generator with an integral insert keyer that can simultaneously insert and position Time and User data into the video of a work print or on a monitor and can be remotely operated. Also available is Model TCG-70N that does not include all User Data features of the TCG 80N but can be equipped to insert User Data from an external source. Prices range from \$2150 to \$3710 depending on the model and options selected.

A new ¾-in videocassette, the Q₂HD, has been announced by Memorex Corp., San Tomas at Central Expwy., Santa Clara, CA 95052. The Memorex Q₂HD features a new formulation combining a ferric-based oxide particle with an advanced generation binder. The oxide is produced under a patented conversion process that increases the coercivity of the oxide to the required level and then stabilizes it to provide a magnetic particle said to have good magnetic performance and signal stability. The tape is

reported to provide good performance under climatic extremes and to have the ability to stand up to extended still-picture and repeated playback demands. The cassettes are available in 10- to 60-min configurations as well as in a "mini" format for portapak users. Prices range from \$22.25 to \$37.40.



Telesis, a transmitter control system for AM, FM and television transmitters, has been announced by Eric Small and Associates, 680 Beach St., Suite 365, San Francisco, CA 94109. The system is designed to combine the functions of a conventional remote control, tolerance alarms indicator and autologger with easily-integrated modules. The functions are not designed with soldered connections; Telesis operates under stored program control (software), thus providing flexibility. The systems are customized to each station's requirements. The hardware requirements are met by using standard off-the-shelf modules. The only moving part within Telesis is a numeric keypad. No stepper relays or relay logic are used, thus ensuring reliability. A single system can control several transmitters either in the same service or in mixed services such as AM, FM and television. The system allows a single command to automatically sequence procedures normally requiring many steps by the operator — such as transfer of main to standby transmitter, change of antenna pattern and morning turn-on procedures, each requiring a single command. Time-of-day functions, such as antenna pattern changes, can be pre-programmed to change automatically each month. Three different-sounding audible alarms are provided at the studio and, optionally, at the transmitter — "warning," "serious," and "urgent." A non-volatile magnetic core is used for information storage so that vital data are not lost during a power failure. The base price of Telesis is \$25,000, the final price depending on the complexity of the resultant system requirements.



Three high-speed printer control tape readers, designated Models CE-HSR-1, CE-HSR-1C, and Cd-HSR-2FC (shown above), have been announced by Carter Equipment Co., 15430 Condon Ave., Lawndale, CA 90260. The units are fully compatible with Bell & Howell high-speed readers as they utilize interchangeable connectors. They are available in a color only, combination color and frame count cue (single tape) or dual tape color and frame count cue models. The heart of the reader is a Signetics Model 2650 microprocessor. The units are packaged with high-speed optical read heads in a 17- $\frac{1}{4}$ - \times -17-in cabinet exclusive of external reader power supply. Prices range from \$6950 to \$8360.



The Electro-Lite, a compact, automatic silver recovery system, has been announced by Derek, Inc., 2528 Merced, South El Monte, CA 91733. The system, which occupies a small space and can be operated without special skills, delivers silver ingots. The electrolytic process is automatic and requires no attention. A closed-loop monitoring circuit maintains a precise current curve that provides high yield without causing the recovered silver to deteriorate into sulphide. Two-stage extraction is said to assure the highest possible recovery of silver from any concentration of solution. The system uses a gravity flow rather than chemical pumps. It operates on 110 v and may be run 24 hours a day if required. The price of \$3750 includes a holding tank, primary and secondary recovery tank units and a high-temperature stainless steel electric melting furnace with temperature control and gauge. Also included are three melting crucibles, asbestos gloves, a silver ingot mold, a supply of Kodak silver test strips, a stainless steel tray for drying the silver powder, a scale, a transfer pump with filter and hoses and an instruction manual.



A-M-M-S (Automated Media Management Systems), a new concept designed to "revolutionize" the educational resource center through computerized media management, has been announced by Research Technology Inc., 4700 Chase, Lincolnwood, IL 60646. The announcement notes that automation needs are based not only on the total number of films in stock, but on the number of times the inventory turns. A center with 10,000 titles circulated on an average of four times a year actually has less traffic than a center with 5000 titles going out 32 times a year. A-M-M-S features a Real Time Operating System (RTOS) which permits simultaneous batch and on-line functions. A-M-M-S offers programs as software able to perform almost any statistical or record-keeping

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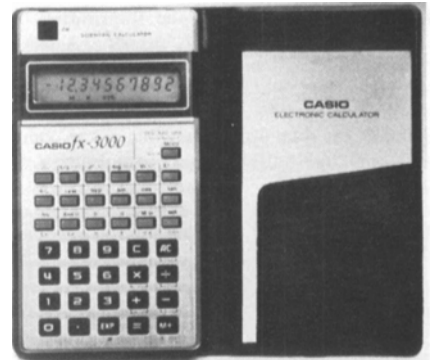
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The Phasemaster rotary phase converter for AM/FM radio and television transmitters has been announced by Kay Industries Inc., 604 North Hill St., South Bend, IN 46617. The device converts 220- or 440-V single-phase service to 220- to 440-V three-phase power. There are 14 models in the Phasemaster line handling motor sizes from ½ to 150 hp and an indefinite number of electric motors in combinations ranging up to 500 hp. The price range is from \$1300 to \$15,000.



Two pocket-size scientific calculators, the FX-3000 and the FX-2200, have been announced by Casio, 15 Gardner Rd., Fairfield, NJ 07006. The FX-300 features a full range of scientific functions and has a ten-digit liquid crystal display. It expedites polar-rectangular, rectangular-polar coordinates conversion as well as permutations and combinations. Basic parenthesis calculations up to two levels can also be handled as well as standard deviations and percentages. It has a floating decimal point. It is powered by three silver oxide batteries. With a G-13 type battery, the battery life is approximately 700 h. The price is \$49.95.

The FX-2200 has an eight-digit liquid crystal display. Each of the two calculators has an independent memory system. Battery life for the FX-2200 is approximately 1000 h. The price is \$39.95.