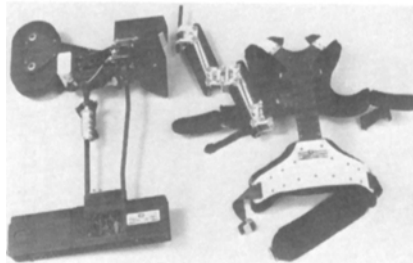


New Products & Developments

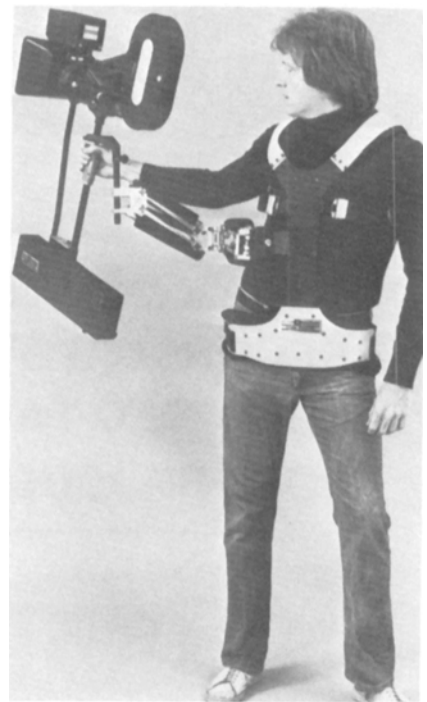
Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

The Steadicam-35, a stabilized 35mm motion-picture camera incorporating the Brown Stabilizer, has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. In handheld operation the Steadicam-35 provides mobility and portability while recording steady and smooth images. It permits the camera to move freely in all angles and in all directions — up, down and all around — as if suspended freely in mid-air, yet completely balanced at all times, while the camera operator guides and controls the position of the camera. For example, the system permits the camera operator to run — even up and down staircases — while shooting or to sit in a helicopter, or on the back of a flatbed truck and still produce jitter-free shots of studio-quality smoothness.

The Steadicam utilizes an extensively modi-



fied Arri 2C as the basic camera mechanism with a 2/3-in video camera coupled to the viewing system to provide full reflex viewing by means of a super-bright specially designed 3-in monitor. The viewing system of the Arri 2C has been modified so that, by means of a flipped mirror, the camera operator can view either on the 3-in monitor while shooting or through the regular camera eyepiece for scene setups. A composite video signal output is available for additional viewing on a remote monitor and for videotape recording. The drive system of the Arri 2C has been modified so that the reflex spinning mirror invariably stops in the viewing position. In addition the Arri 2C has been hard-fronted by



Cinema Products to accept all BCNR-type mounted lenses. A servo-driven follow-focus unit is attached to the front of the modified Arri 2C camera so that the camera system can follow-focus by remote control either through cable connection or by wireless transmission. The complete system consists of a body brace with a support arm attached to the body brace at one end and (through a free-floating gimbal) to the camera system at the other end. A special 3-in high-intensity monitor is attached to the camera for convenient two-eyed viewing in all ambient light situations. Below the camera, in a T-bar type of arrangement, is the monitor power supply module, crystal-controlled camera drive motor, control circuitry, and the battery pack powering both the film and video cameras. The Steadicam-35 battery pack is a 5-Ah silver zinc unit rated at 20 V.

The special 3-in monitor, designed and manufactured exclusively by Cinema Products, features a high-intensity kinescope tube with a special filter with multiple layer anti-reflective coatings on its surface permitting the operator to perceive a bright, high-resolution picture even with direct sunlight impinging on the face of the tube. Before filtering, the CP 3-in monitor delivers more than 4000 fL on the screen of the tube. The body brace and support arm weigh about 13 1/2 lb. The complete camera system (including a 400-ft loaded magazine, power supply, matte box and a Canon aspheric high-speed prime lens weighs about 31 lb. The Steadicam-35 is priced at \$35,000. The price includes one 400-ft magazine, two batteries and one charger. Lenses are extra.

The Brown Stabilizer, invented by Garrett Brown, was developed and is manufactured by Cinema Products under world-wide license. Foreign and U.S. patent rights have been applied for.

Scene-Sync, a TV system designed to make possible the synchronized combination of a foreground scene with actors and a preshot background on film, 35mm slides or graphic illustrations, has been announced by Power-Optics, Inc., a subsidiary of Evershed Power-Optics, Ltd., 1055 W. Germantown Pike, Fair-

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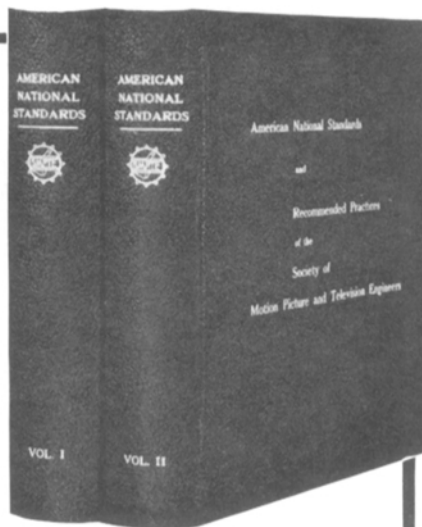
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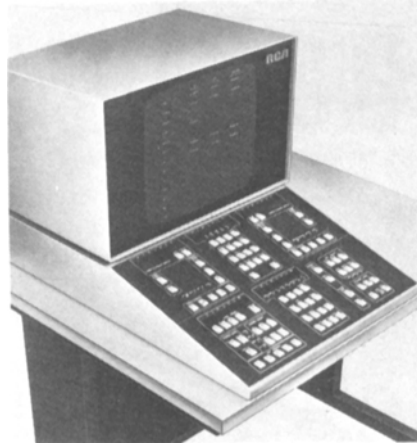
862 Scarsdale Ave., Scarsdale, NY 10583



view Village, PA 19409. In operation, the selected background is pre-shot in the usual way but with a 16mm film camera using a wide angle lens. In the studio the setting is the same as for a regular Chroma-Key scene although the blue background must, of course, be large enough to cover the pan and tilt angles of the studio camera. The Scene-Sync consists of two items — the Transmitter, which is 1½ in deep and fitted between the pan and tilt head and the dolly, pedestal or crane of the FG (foreground) camera, and the BG (background) unit, a free-standing mobile unit on 6-in wheels.

The Transmitter sends electrical signals corresponding to the movements of the pan and tilt head. The signals pass through an amplifier to the BG unit which contains a special pan and tilt head carrying a 16mm film projector. The background scene is run on the projector within a blimped enclosure with the picture presented on a screen about 12 × 9 in. A second studio camera is allocated to cover the BG unit. It is a normal channel, mounted on a dolly, pedestal or crane and is lined up onto the screen of the BG unit just as it would be onto a caption board. In operation, on cue the projector in the BG unit is started and the BG and FG pictures are mixed by Chroma-Key. As the FG camera pans and tilts, the picture on the screen moves accordingly.

Two Scene-Sync systems are presently available. One system consists of the transmitter and a moving caption board and is priced at \$17,000. The other system which uses a motion-picture or slide projector is priced at \$25,000 (without the projector). If both systems are purchased together the price for the two is \$35,000.

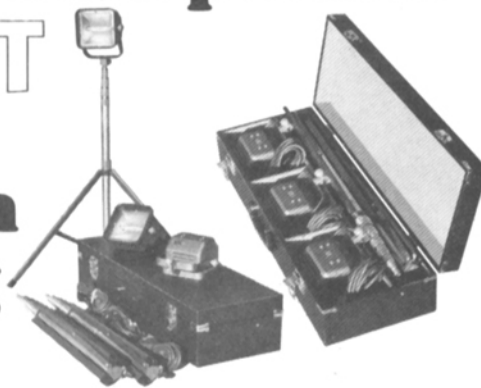


The AE-600 time code editing system designed as an integral accessory to the TR-600 videotape recorder (*Journal*, p. 334, April 1974) has been announced by RCA Broadcast Systems, Moorestown, NJ 08057. The automatic editor uses large scale integrated circuitry and advanced microprocessor and programmable memory devices. Features include use of the SMPTE/.EBU-approved time code in either drop frame or non-drop frame modes. The system can control one record and eight playback TR-600s plus three external devices. Lockup and synchronization of all TR-600s is accomplished within 4 s (NTSC/PAL/SECAM). The system capability includes the ability to make split audio-only, video only and audio/video edits. Prices for the AE-600 range from \$14,000 to \$40,000. Installed in the TR-600, the package price ranges from \$95,000 to \$283,250.



The Video V character generator, a sophisticated and versatile character generating system utilizing a standard keyboard for message composition and a magnetic disc drive system for bulk storage of messages, has been announced by RCA Broadcast Systems, Front and Cooper St., Camden, NJ 08102. The system, based on minicomputer technology, uses a 16-bit word for instructions and message writing. Eight bits of word are used for the USASC II code for the various alphanumeric symbols and standard keyboard operations. The other 8 bits are for extra control levels, such as disc selection, writing on disc, reading from disc, character and background color, font load selection and alphabet selection. All input boards are EIA RS-232-C compatible. The price for a single channel system is \$45,000. For a dual channel system the price is \$60,000.

The seventeen and one-half pound CAT-KIT Quartz Location Lighting Kit



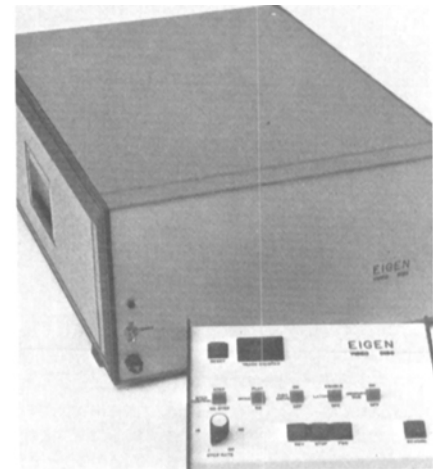
The CAT-KIT is ideal for CATV and for all on-location filming requiring an extremely compact and ultra-lightweight lighting kit.

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The CAT-KIT, which weighs only 17 lbs., 8 oz., includes: three non-focusing fill lights (*miniature broods*); 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 5¾" × 9½" × 27". The CAT-KIT operates at 120-volts AC/DC with 650-watt double-ended quartz lamps.



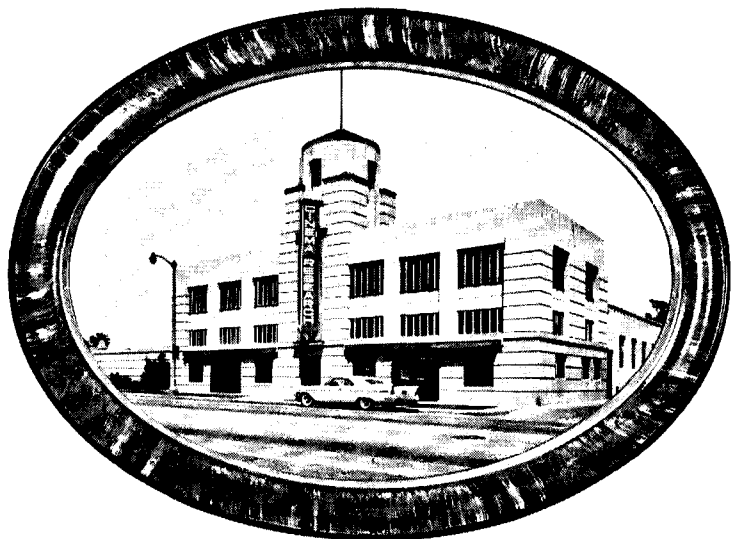
Two new versions of the Eigen Color Slow Motion Disc Recorder have been announced by Eigen Video, P.O. Box 1027, Grass Valley, CA 95945. The new versions have 20-s and 30-s time capacities, double and triple that of the earlier Eigen disc recorder with a 10-s capacity. The discs record consecutive fields as alternate tracks in each direction to achieve continuous loop operation. Each track is erased before re-recording by dual-gap magnetic heads; this, in combination with the flexible disc provides SNR of 46 to 50 dB. The flexible disc is in a cassette that can be changed in seconds without tools. The flexible disc is actually videotape material that acts similarly to the conventional plated disc due to centrifugal force. Applications for the Eigen disc recorders include sports slow motion work, editing and post production for freeze frame, time-lapse, jump-cut and animation effects. Price of the basic (10-s) disc recorder is

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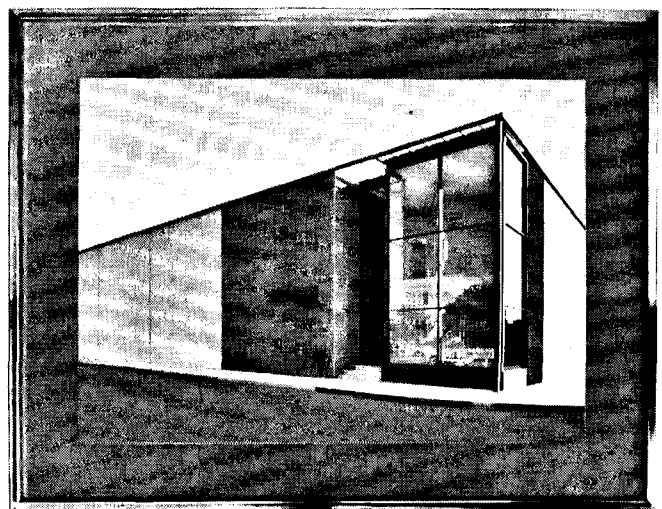
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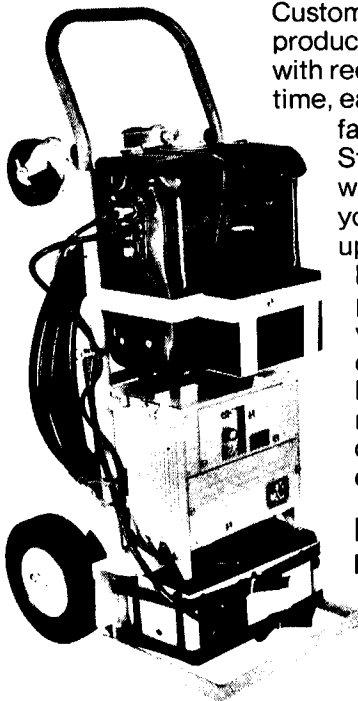
The recorder: Sony's easy-to-operate VO-3800—a 30-lb. package that gives you up to 20 minutes of NTSC color on a single U-Matic[®] cassette which can be edited on the 2850.

*Also available with HL-35.

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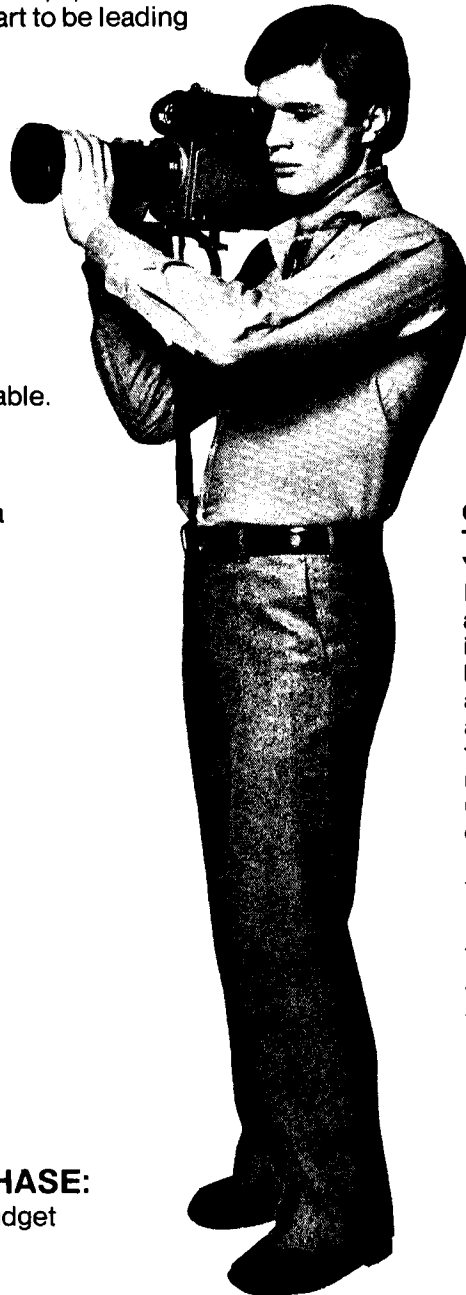
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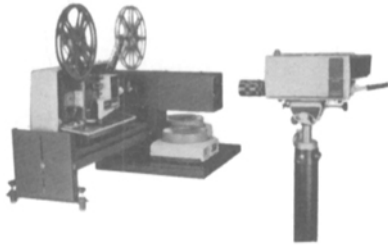
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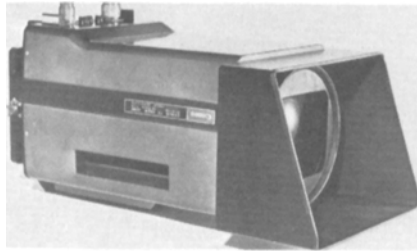
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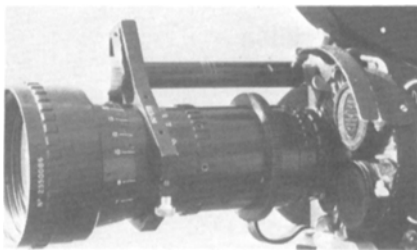
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\$12,500. The two new versions are priced at
\$27,500 and \$40,000.



The new Canon 18X broadcast studio lenses have
been announced by Canon, U.S.A. Inc., 10
Nevada Dr., Lake Success, NY 11040. Features
include fast aperture ($f/1.6$ for 1 in and $f/2.1$ for
30 mm); minimum focusing distance of 27.6 in;
built-in servo-controlled 1.5X and 2.0X ex-
tenders; interchangeable plug-in servo modules;
and extreme wide angle of 55.3°. The lens is
small and compact (466.5 mm long, 284 mm
wide and 260.5 mm high). The weight is about
22 kg. The price (manual version) is \$17,950.

The RCA Type TFS-121 Digital Video Syn-
chronizer has been announced by RCA Broad-
cast Systems, Front and Cooper Sts., Camden,
NJ 08102. The TFS-121 is a compact unit uti-
lizing state-of-the-art digital sampling and
storage techniques to provide a significantly
improved performance over that of earlier syn-
chronizer designs. It can store two complete
television fields — a full frame. Basically, the
TFS-121 accepts a non-synchronous video input
from any external source, converts it from anal-
og to digital format, stores in memory, converts
back to analog and processes the signal through
a high-quality processing amplifier. Sync,
blanking and color burst signals from an internal
color sync generator are added to the output
picture. The picture information stored in
memory is read out at a rate which is synchro-
nous with the "house" sync generator timing
system making it possible for the signal to be
used for mixing, special effects, Chroma-Key,
etc., similar to the manner in which a live cam-
era, tape machine or other source is used. Price
of the TFS-121 is \$47,500.

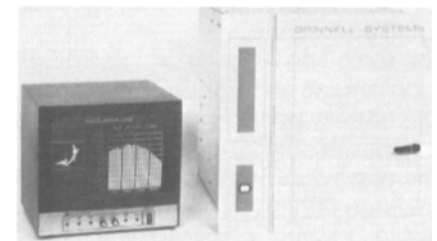


The Tamaha 20-1 zoom lens is available on a
rental basis from Alan Gordon Enterprises Inc.,
1430 N. Cahuenga Blvd., Hollywood, CA
90028, according to a recent announcement. The
T/6.3 lens zooms from 25 to 500 mm and cover
the full 35mm format. It can be used on either
35mm or 16mm cameras. It is available with an
Arriflex or BCNR mount. It can be adapted to
fit the Eclair NPR. The horizontal lens angle at
25mm is 52.9°; and at 500mm it is 2.6°. The
overall length is 9¾ in and the weight is 5¾ lb.
The minimum focusing distance is 4 ft 10 in. The
filter size is 4½ in. The lens accepts the J-4 zoom
monitor. Presently available on a rental basis
only, price of the Tamaha is expected to be about
\$8000 whenever it may become available for
sale.



Two digital video time base correctors, CVS 510
and CVS 520, have been announced by Conso-
lidated Video Systems, Inc., 3300 Edward Ave.,
Santa Clara, CA 95050. The 510 employs a 6-
bit, 4 times subcarrier digital sampling tech-
nique. It is designed to improve NTSC hetero-
dyne color and monochrome signals from helical
scan videotape recorders. Applications include
educational, industrial, cable TV, pay TV and
other closed-circuit facilities. The 510 has a
built-in color sensing circuit. When burst is not
present, the 510 can function automatically in
the monochrome mode. In addition, the front
panel has an override feature that allows the 510
to function in the monochrome mode whenever
it is desired. Price of the 510 is \$6000.

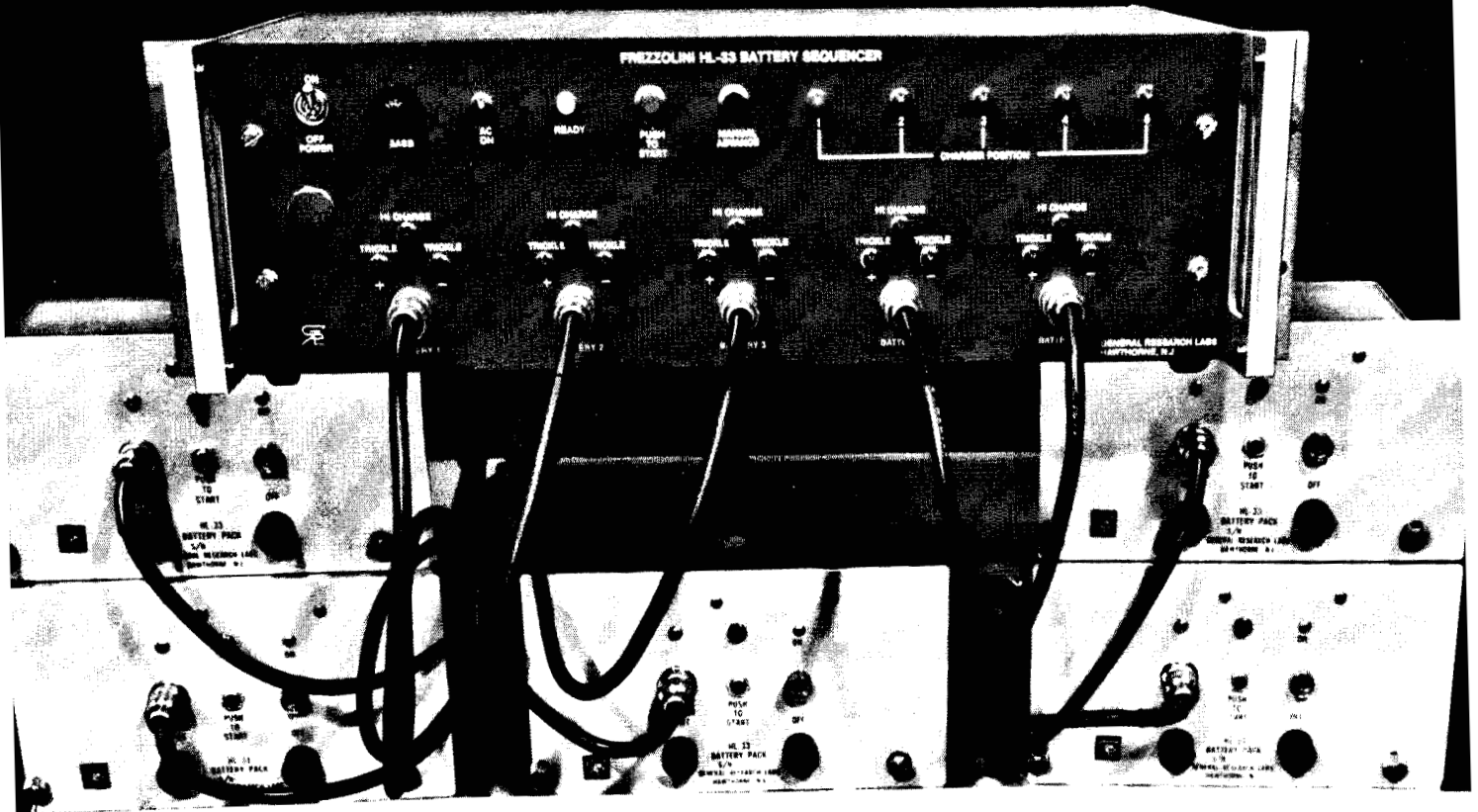
The 520 is a high-performance digital time
base corrector utilizing a 9-bit, 4 times subcar-
rier, PCM digital sampling technique. The 520
is designed to handle segmented (quads, IVC
9000, etc.) and non-segmented (helical, U-
Matic, etc.) VTRs. Full-bandwidth color signals,
heterodyned color signals and monochrome
signals, with or without capstan servo, may be
made into a broadcast signals or significantly
improved. Price of the 520 is \$19,000.



A graphic television imaging system called the
GMR-26 has been announced by Grinnell Sys-
tems Corp., 2986 Scott Blvd., Santa Clara, CA
95050. The system is designed to generate and
display complex line drawings and/or picture
images on standard television monitors. Users
can choose black-and-white, gray scale, color,
multi-level color or any combination of these.
The system also generates alphanumeric char-
acters, symbols and vectors. The GMR-26 in-
terfaces to most computers. Refresh memory
channels use 4k MOS random access memories
to provide 3.2 μ s access to any point on the dis-
play. Other capabilities include line by line, up
or down image scrolling, automatic increm-
enting of display entities and generation and
display of a blinking cursor. Three resolutions
are available — 512 \times 512 elements; 256 \times 512
elements and 256 \times 256 elements. The system
consists of a controller and one or more display
channels. The controller includes the control
logic, a power supply, a 19-in rack mount chassis
and a standard 16-bit interface. Other interfaces
can be supplied. Price for a GMR-26 controller
and two display channels with 256 \times 256 resolu-
tion is \$5700. Higher resolutions are avail-
able.

ASCET (Automatic System for Correction of
Errors in Telecine) has been announced by RCA
Broadcast Systems, Moorestown, NJ 08057.
The system, designed for use on the TK-28 color
TV film camera for telecine chains (*Journal*, p.
498, June 1972) is intended to complete the
camera's built-in automatic features to provide
total correction of color deficiencies. The
ASCET has negative film capability to allow use

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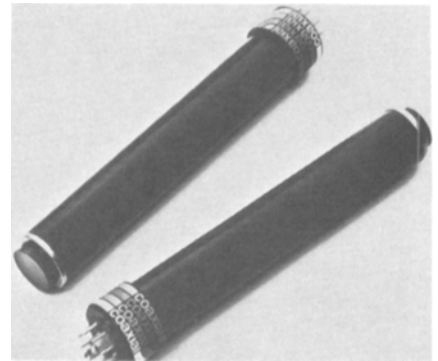
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of original camera material. Color balance and other adjustments can be operated manually for subjective corrections or can work automatically. The price (including installation) is \$7900.



A Leddicon (lead oxide vidicon) TV camera tube developed in England by the English Electric Valve Co., Ltd., has been announced by English Electric Valve North America Ltd., 1 American Dr., Cheektowaga, NY 14225. Features include separate or integral mesh operation; reduced line scan pickup; operation in any attitude; self-generated or variable light bias resulting in low lag and good dynamic resolution with uniform dark current and use in virtually any 30mm camera.

The P8130 series are lead oxide camera tubes of coaxial grid 3/grid 4 construction with fixed internal light bias. For integral mesh operation the grid 3 and grid 4 electrodes are electrically connected external to the tube base by means of a small link connection. Separate mesh operation is achieved by removing the link. The fixed internal light bias source which is parallel with the cathode heater is intended to illuminate the photolayer uniformly and to ensure an evenly shaded induced dark current resulting in fast build-up and decay lag at normal and low light levels reducing picture smearing to insignificant proportions.

The tubes fit standard unmodified 30-mm sockets and require a total current of 300 mA for energizing the cathode heater and internal light bias source. Five types of tube are available for monochrome cameras and for the luminance, blue, red and green channels of color cameras. Prices are \$1925 and \$2200.



The Crest split screen system designed for security, surveillance and industrial applications has been announced by Crest Electronics, Inc., 2634 La Cienega Ave., Los Angeles, CA 90034. The system allows video images from two cameras to be viewed simultaneously on a single monitor screen in a vertical or horizontal split and includes corner insert and complete wipe of either camera. The system is self contained. It employs two random interlace cameras and a 9-in monitor with a loop-through system providing for monitoring on a larger screen. All controls are located on the front of the monitor. The system, including the two cameras and monitor is priced at \$1250.

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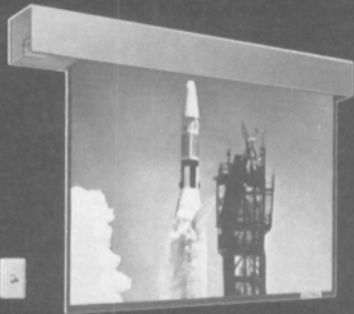
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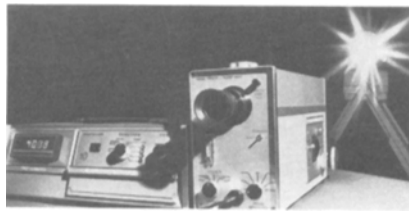
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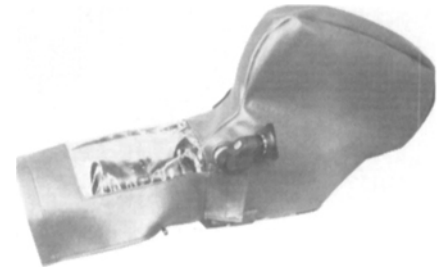


The Spectra® Pritchard 1980A-PL, an automatic pulsed-light photometer has been announced by Photo Research, Div. of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. The unit includes a wide-band output signal jack for measuring pulse shapes and peak power with the aid of an oscilloscope. It also offers direct digital readout of integrated radiant energy in a single pulse or a series of pulses. Minimum pulse rise and decay times of 50 ns can be measured and total radiant energy in pulses as short as 180 ns can be integrated. Features include electronic autoranging over four full ranges providing six decades of direct readout without operator adjustments over a full-scale sensitivity range from 10^{-5} to 10^7 fL. A built-in AutoComp™ system automatically compensates for any changes in filter, electronic gain or aperture settings. Measurement applications include flashlamps, strobelights and pulsed LEDs and lasers. Other applications included high-speed photoinstrumentation. Price range of the 1980A-PL is \$7500 to \$9000 depending on accessories.

A new Halliburton travel case for CP-16R cameras has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Rugged and lightweight with a combination lock and top carrying handle, the new case is filled with foam padding, pre-cut to accept one CP-16R reflex camera, zoom lens, three 400-ft magazines, two NC-4 battery packs, two NCC-6 chargers and other accessories. Another version of the Halliburton travel case is pre-cut to accept the CP-16 camera and zoom lens with viewfinder. The price of each case is \$250.

The Model 135 Colorizer for coloring monochrome video signals based on the Chromaton Depth Level System has been announced by BJA Systems, Inc., Davisville Rd., Willow Grove, PA 19090. The Model 135 provides four "depth level planes" and a background, each of which is assigned a color from a selection of 20 preset colors. Portions of either of two synchronous video inputs may be placed on any of the levels resulting in the ability to interleave parts of one picture with the other. For example, part of a graphic can be placed in front of letters from a character generator while another part of the graphic is behind them to give the illusion that the letters are an integral part of the graphic, not just matted on the top. The Model 135 Colorizer can be used with a monochrome camera to free a color camera being used for graphics. Other applications include coloring live shots for dramatic effects; enhancing displays in scientific and industrial applications; edging letters; coloring weather radar and keying graphics into live shots. Standard features include a keying output to a switcher, two halftone effects and a sparkle effect. A factory-installed optional sync generator is available. The Model 135 Colorizer accepts two video signals, composite sync, composite blanking and color subcarrier. The outputs are a standard color video signal and the keying output for a video switcher. Model 135 is simply another video source to the switcher. It is 17 in wide, 6 in high and 15 1/4 in

deep. It is priced at \$3350. The sync generator option is \$650.



Special rain covers designed to accommodate CP-16 reflex and non-reflex cameras have been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The rain covers are made of Naugahyde and are available in two versions, one for the CP-16R reflex cameras (Model 1L255) and one for CP-16 cameras (Model 1L134). Both versions permit easy access to all camera operating controls and the lens markings are visible through the covers. The rain covers are priced at \$74 each.



A professional 2 x 2 slide projection system utilizing a 500-W xenon short arc bulb has been announced by Strong Electric Corp., 539 City Park Ave., Toledo, OH 43697. Designated the Universal, the new projector can project up to 5000 lm through a 2 X 2 super slide without damaging film. The life expectancy of the xenon bulb is reported at up to 1000 h. The Universal system is equipped with the Kodak Ektagraphic slide projector with standard remote control functions. A solid-state dc power supply operates from standard 115-V ac convenience and may be located remotely from the lamphouse and projector. Price of the system is \$2550 without the lens.

A Stacking Dissolve Rack, used for projecting two or three critically aligned images concurrently onto one surface from Kodak slide projectors, has been announced by Buhl Optical, 1009 Beach Ave., Pittsburgh, PA 15233. The optical axes of the projectors, supported one above the other, are kept close together to minimize keystoneing. Adjustment of each of the three movements — elevation, azimuth and tilt — is accomplished independently and without altering any of the others. It is possible to remove the projector alignment cradle while maintaining image registration. The unit has been designed to eliminate straining or warping of the support plate to prevent "silent creeping" of the image position. When properly aligned, four adjustable, rubber-tipped retainer screws hold the projectors securely. The 9-lb, two-Kodak-projector rack is priced at \$135 (Model 577-200) and the three-projector, 13.5-lb Model 577-300, is priced at \$180.