

# NEW PRODUCTS

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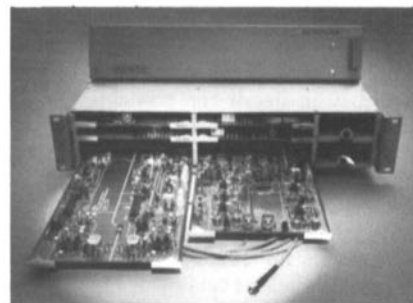
SPC-3 CCD color camera

The SPC-3 CCD color camera with universal interface to 1/2- and 3/4-in. tape format has been announced by NEC America, Inc., Broadcast Equipment Div., 130 Martin Lane, Elk Grove Village, IL 60007. Heart of the new system is the NEC-developed 2/3-in. charge-coupled device. Three of the CCD image sensors are used, two for

the green channel alone, and one for the combined red/blue channel. The dual green system, which can be realized only with a mechanically locked registration system, is reported to provide much higher resolution and sensitivity than can be obtained from a conventionally structured RGB system. The solid state operational characteristics provide accurate and permanent registration free from geometric distortion and from burn-in.

The SPC-3 camera interfaces directly with 1/2-in. Beta and M tape formats as well as with 3/4-in. U-Matic tape format. An optional 1/2-in. VTR may be attached to the back of the camera to provide a camera-VTR combined ENG system. The camera measures 3.9 x 9.1 x 15 in. It weighs 7.3 lb.

**Dual channel audio**, Model 3291, a new feature of the Wavelink™ system of fiber optics, has been announced by the Grass Valley Group, P.O. Box 1114, Grass Valley, CA 95945. The device enables stereo, audio, and video to be transmitted on a



Wavelink dual channel audio, Model 3291, Grass Valley Group

single fiber. The complete Wavelink system is designed to accept planned future enhancements in a modular arrangement.

Wavelink transmits analog signals using an LED source and a frequency modulation (FM) transmission method rather than amplitude modulation (AM). The FM method operates with an "on-off" action of the transmitting device to ensure linearity and high performance of the system.

An avalanche photodiode is used as the Wavelink detector rather than a pin diode. The avalanche photodiode operates according to the principle of the photoelectric effect.

The dual channel audio transmission system employs two stages of frequency modulation. Both channels are separately

## THE MOST FAMOUS PICTURE IN HISTORY WAS SHOT WITH AN ANGENIEUX TV LENS

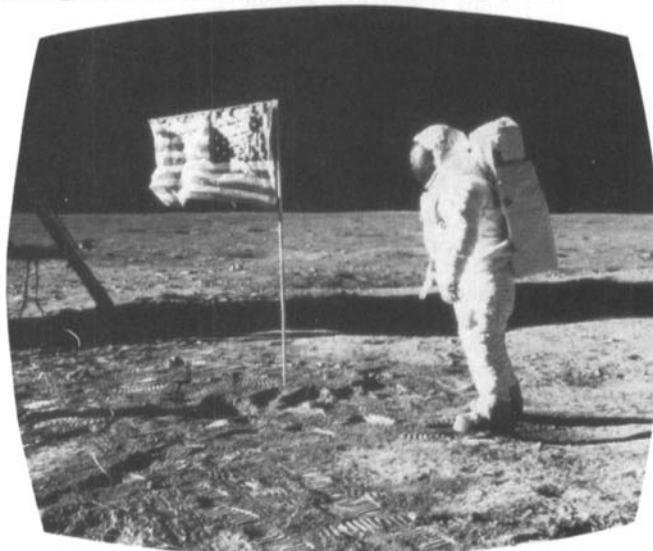
On July 20, 1969 over 600 million people watched as man first set foot on the moon. The lens which brought the excitement back to earth was an ANGENIEUX.

More recently, the most watched TV spectacular ever, "The Winds of War," was shot with an Angenieux lens.

Now you may ask, what makes Angenieux so special. Perhaps it's our reliability. We're dependable enough to have been selected by NASA for all its space to earth transmissions. We even give NASA a 50 mission guarantee on every Angenieux lens. Or maybe it's our innovation. After all, we pioneered the retro-focus lens and the world's first 10 to 1 zoom lens.

Or maybe it's our wide selection of lenses that broadcasters and production houses count on for top performance.

Before you buy your next broadcast lens, look at Angenieux. We'll make you famous, too.



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Tel (416) 495-5454

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1211 Geneva 17, Switzerland  
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Telex 27670-Opti-CH

# There's more than one reason why top engineers want to work with us.

---

## Let's start with the technology.

It's creating a lot of excitement, and not just among ourselves. As a world leader in television switching, signal processing and distribution systems, broadcasters and production houses repeatedly sing our praises. Our systems enhance their programming capabilities and keep them competitive. Not to mention make their jobs a lot easier.

At Grass Valley Group, state-of-the-art is our starting point for the next generation of broadcast electronics including fiber optics, advanced special effects, and other systems. We're involved in an exciting technological challenge that will have a visible impact on the future of broadcasting.

### Look at a career with us.

We offer security and growth, plus room for personal achievement — features that are actually built into our management

policy. That says a lot about how we care for our employees, and the following available positions are no exception.

Immediate opportunities are now open for software engineers, digital hardware design engineers, switcher project managers, analog design engineers, and video project managers.

### Leave the city behind.

And take the technology with you. GVG is a high-tech company located in the beauty of the Sierra foothills, about 60 miles northeast of Sacramento. Clean air, affordable housing and the charm of the Gold Country create an ideal life-

style for your family.

Imagine driving to work each day without the usual traffic jams. And, when the week is over, you can take advantage of varied recreational activities — skiing at Lake Tahoe, gambling in Reno, even opera in San Francisco!

### There's More!

GVG offers outstanding benefits, in addition to challenging career opportunities, growth, security and a scenic, rural setting. It is our annual Open House on Saturday, September 24, 9 a.m. - 3 p.m. Come see our facilities and spend some time in our Mother Lode Country.



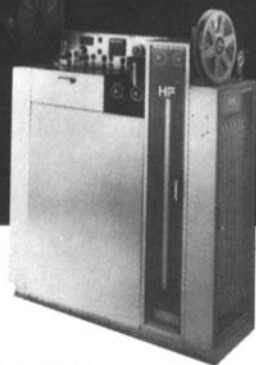
Qualified applicants send resume to:  
Sylvia Shelton, The  
Grass Valley Group,  
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## Houston Fearless 76

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modulated using a low-frequency carrier (100 kHz); then one is modulated on a 9.8-MHz carrier, and the other on an 8-MHz carrier. The two channels are summed with the video channel to produce a resulting waveform that is frequency modulated on a carrier of 24 MHz. At the receiver, the FM signal is demodulated and passed through baseband filters to restore the original signals.

A new fiber optic computer graphics communication system has been announced by Artel Communications Corp., P.O. Box 100, West Side Sta., Worcester, MA 01602. Consisting of two plug-in transmit/receive modules, the T-2011 and the R-2011, the system is able to transmit high-resolution RS-170 video up to 10,000 ft over fiber optic cables. The fiber optic system bandwidth accommodates either 640 × 512 or 512 × 512 pixel resolution. The T/R-2011 permits long-distance interconnection of the work station monitor and the computer video display without loss of video resolution. Both color (RGB) and monochrome video signals can be handled by the system. Dual BNC input/output connectors are plug-compatible to virtually all monitors and display generators.



Rank Cintel telecine system

A simple, solid state telecine system has been announced by Rank Cintel Ltd., Watton Road, Ware, Hertfordshire SG12 OAE, England. Film images are converted to a video signal on the ADS 1 by a beam splitter block and a series of four linear arrays (one for each color and one as an infrared sensor); each has 1024 charge-coupled devices (CCDs), and digital scanning and processing techniques. Three film transports can be used with one electronics control cabinet; switching is instant between 16-mm and 35-mm gauges. A vertical spooling configuration with a 21-in. spool capacity minimizes floor-space requirements. Dirt can fall clear because the film runs vertically through the scanning block. An optional dirt and scratch concealment system exploits the infrared sensitivity of the CCD by using a dedicated sensor to detect blemishes, which are then

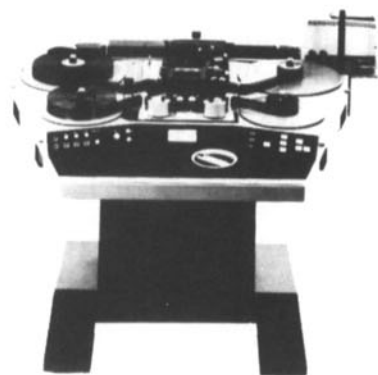
# KEM K-800

## For Post Production Independence



### For Film and Sound Editing

16/35mm Interchangeable Picture Modules with Flicker-Free KEMscope polygon. Manual inching in sync or each track separately.



### Film to Video Transfer

Simple to thread, simple to operate. Single level variable speed control, instant start/stop buttons. TV Scanner with 24 face KEMscope Flicker-Free Polygon Manual Color Correction. Smooth on negative film. Any brand name C-mount TV camera can be used.

Also video and sound track editing through the SMPTE Time Code lock system available.

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# KEM

**A**s designed for Motionpicture Recording, Inc. in Hollywood, the AMEK M-4000 CINEMA console offers simultaneous dubbing to mono, stereo 3 track, 3 into 5, 4 track, 6 track Dolby stereo, and 8 track Omnivision, with additional 24 track output assigns and mic inputs for Foley recording.

Dialog, music, and effect sections are three separate consoles with any section having the ability to control all three in any combination. Metering is a combination of 46 segment three-color LED light meters and true ballistic-reading VU meters; light meters reading all inputs and VU meters reading all outputs per each section.

Full automation functions include: Fader level, 10 subgroups per section

with sectional link capabilities (D, M, Fx), auto mute, aux send/return levels, and auto-graph equalizers in pre or final dub mode (controllable via a DEC 16-bit twelve-inch hard disk micro-processor with dual floppy back-up).

Other exclusive features include: Variable divergence panning, variable bandwidth parametric equalization, high and low pass parametric filters, a unique tri-color calibrated LED-ramp adjacent channel faders for VCA level indication while in automated mix mode, and totally comprehensive LED routing matrix indicating the exact signal path of the entire console at a glance. Optionally available: a compressor, limiter, expander noise gate may be fitted on each input and output.

AMEK SYSTEMS AND CONTROLS has been building major project one-off consoles since 1970. We build consoles for motion picture dubbing, video post-production (off-line or on-line), and on-the-air audio for television. We can build a custom console in any configuration to precisely suit your mixing and dubbing needs.

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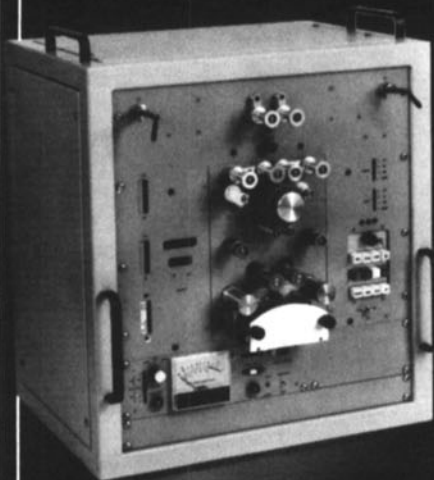
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MULTI-TRACK MAGNETICS' Model R104B/DCS is a rugged, lightweight portable recorder/reproducer that is ideal as a transfer machine; for slop mixes and for interlocking to an editing table or projector.

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- MTM's latest microprocessor DC Servo Sprocket Drive, DC Servo Torque Motors.
- Interlocks via shaft encoder to 240 - 1200 or 2400 Hz.
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MTM's R104B is compatible with Data Kode<sup>®</sup>.

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(201) 327-9400 TELEX 64-2718 MTM USA (UPSR)



A Matrix Company

concealed by advanced frame-store manipulation.

Although designed primarily to reproduce positive film stock, the equipment has a gentle capstan drive said to allow negative stock to be run. Features include variable speed, automatic color correction, waveform and picture monitors, and a synchronizer for A/B film applications. Normal and wide-screen formats can be accommodated. The equipment can be used with PAL, NTSC, and SECAM television systems.

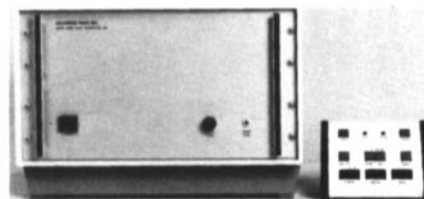


ProCam Model 900, JVC Co. of America

The ProCam<sup>™</sup> teleproduction camera has been announced by JVC Co. of America, 41 Slater Dr., Elmwood Park, NJ 07407. Features include advanced microelectronic circuitry, low-capacitance diode-gun pickup tubes, and light-sensitive prism optics. The camera comes in two versions, the ProCam 900 (Saticon) and ProCam 950 (Plumbicon), each weighing 11.5 lb with viewfinder. Other features include electromagnetic focus and electromagnetic deflection yokes. The cameras also have an RS-170A-compatible color-framing signal; a split-type color bar generator (RS-170A-compatible); and other microcircuits including matrix masking, and digital horizontal and vertical blanking.

The ProCam 900's three 2/3-in. Saticons and the 950's three 2/3-in. Plumbicons provide horizontal resolution of 600 lines at center for both cameras, and the signal-to-noise ratio, a minimum 58 dB. To protect the pickup tubes, both models have a pickup tube protection circuit. When the power is off and color bars are switched on, the iris closes automatically to protect the tubes. When the horizontal or vertical deflection pulse is absent, the protection circuit automatically interrupts the electron beam.

A digital slow-scan television transceiver, Model 285C, designed to transmit and receive color TV images over narrowband communication channels using standard or



Slow-scan receiver, Colorado Video

SMPTE Journal, September 1983



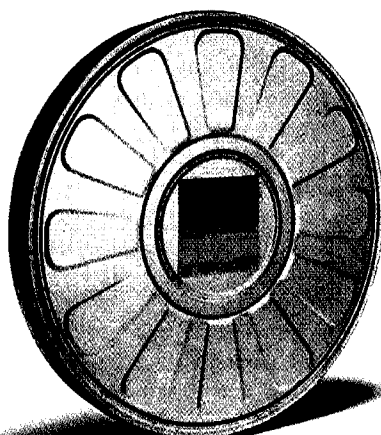
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GEVACOLOR® Print Film 982 is designed to meet the *quality, cost, and processing demands* of the U.S. Industry.

This positive print film (Process ECP-2A) offers unsurpassed color reproduction quality for release printing from original color negatives and color intermediates. The sharpness, color saturation, and dye stability of GEVACOLOR Print Film will continue to satisfy the most demanding requirements of motion picture photography.

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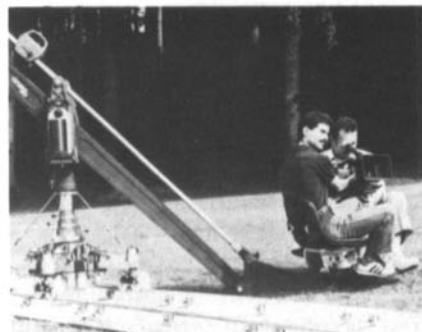
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special digital modems, has been announced by Colorado Video, Box 298, Boulder, CO 80306. The transceiver can operate at transmission bit rates up to 200K bits/sec. The transmission rate is determined by the clock rate of the modem used. At the transmit end, a single field or frame from an NTSC color television signal is "grabbed" and stored in the 285C digital memory. When the operator is satisfied with the stored picture, he initiates transmission over a previously established communication channel. The picture can be scanned from left to right or from top to bottom. At the receive end, the picture is automatically received, stored, and displayed on a color video monitor. The transceiver has a special data I/O port which allows interconnections to an external computer, or a mass storage device.



Mixer power amplifier, Panasonic

A five-input mixer, Model WA-750P, has been announced by Panasonic, One Panasonic Way, Secaucus, NJ 07094. The unit has 120-W capability. Total harmonic distortion is 1% at 1 kHz. Frequency response is 50 to 20,000 Hz  $\pm 3$  dB. The unit can accept input from three low-impedance microphones. One of the inputs is transformer balanced. Of the two auxiliary inputs, one is transformer balanced for telephone paging input. There is a voice-activated priority circuit. For sound level setting, there is a 1-kHz tone generator. The level meter is of the VU type. Sound quality is regulated with a master volume control and separate bass and treble controls.



The CineJib, Arriflex Corp.

The CineJib, a flexible and portable jib arm designed for both feature film and TV commercial production, has been announced by Arriflex Corp., 500 Rt. 303,

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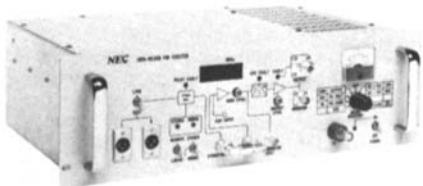
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Blauvelt, NY 10913. With a total weight of only 220 lb, the CineJib may be easily transported to or moved within any studio or location situation. It can be carried in its packing cases by two people and set up in 15 min or less. The load capacity can handle any 16-mm or 35-mm camera plus operator and assistant. It is equipped with adjustable risers for both camera pedestal and operator/assistant seats. The CineJib is supplied with different-sized shot brackets to allow the cameraman to choose both upper and lower operating limits of the main arm. The Super Low shot bracket enables the operator to position the camera optical axis 12 in. below ground level and to rise to a height of 10½ ft in one continuous movement. The jib extends to its full height of 15 ft with the use of the High Shot bracket.



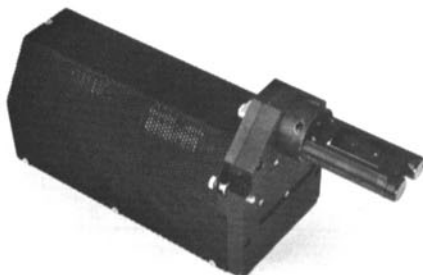
HPA-4536B FM exciter

The HPA-4536B FM exciter, a compact device designed to meet a wide range of professional broadcast applications, has been announced by NEC America, Inc., Broadcast Div., 130 Martin Lane, Elk Grove Village, IL 60007. The HPA-4536B measures 18.9 × 11.7 × 5.9 in. and weighs 28.6 lb. Features include a frequency synthesized PLL (phase-locked loop) facilitating operating frequency change without replacement of any component part.

Providing wideband frequency response, and covering a VHF FM band of 87.5 to 108 MHz (programmable in 50-kHz steps), the HPA-4536B utilizes a direct carrier frequency modulator employing a variable capacitance diode. A simple circuit design eliminates the need for frequency multipliers or mixers.

A servo-controlled light valve for automatic additive color control of motion-picture film printers has been announced by BHP Inc., 7100 McCormick Rd., Chicago, IL 60645. (BHP is the successor to the Bell & Howell Professional Equipment Div.)

Designed for compatibility with the



BHP light valve

## UNPRECEDENT VERTICAL TYPE !! IT'S SHINKO'S VI-1000 THAT IS REAL ERASER !!



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## OUR NEW FLAG DOES EVERYTHING BUT WAVE

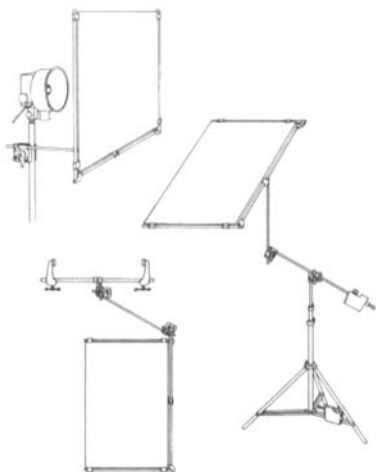


**L**owel's new *Frame-up* unfolds to form a sturdy 34 x 24" flag that can shadow the subject, background and lens. It also diffuses the light, changes its color or reduces its intensity with various clip-on gels.

**O**ur new *Lobo* positions the *Frame-up* precisely and securely on any part of a stand, even with a light on top. Consider the floor space and stands saved.

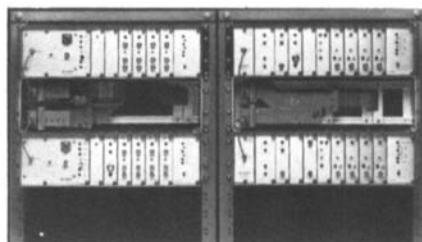
Whether on location or in the studio, our flag/gel-holder receives a lot of respect from professionals—even a few salutes.

**F**or detailed brochures contact Lowel-Light Mfg., 475 Tenth Ave. New York, N.Y. 10018. 212 947-0950. Lowel West, 3407 West Olive Ave. Burbank, Calif. 91505. 213-846-7740.



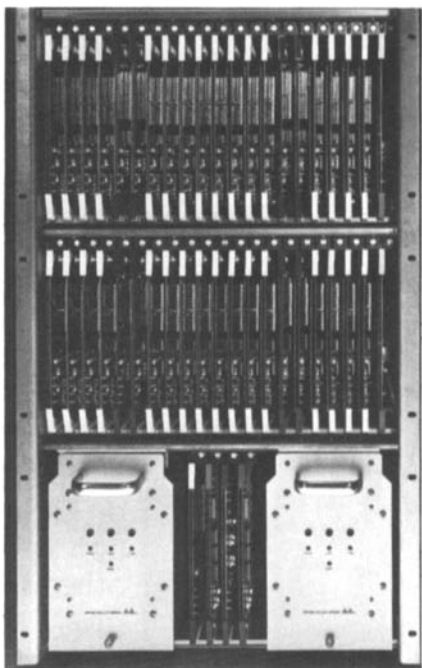
**lowel** 

original Bell & Howell electro/mechanical light valve additive color system and its program tape code, BHP light valve operates over a range of 50 automatic and 24 manual trim steps of 0.025 log E. Accuracy and repeatability are within one-quarter step over the entire range. The valve also operates at higher speeds, approximately five times faster than the original Bell & Howell valve. For use on Model-C printers, an electronic interface module is supplied with a retrofit kit.



7FB microwave system

A 7-GHz solid state microwave system for television relay has been announced by Harris Corp., Broadcast Div., 1680 Bayport Ave., San Carlos, CA 94070. Designated 7FB, the baseband microwave equipment provides transmission in single-hop STL/TSL systems and in multi-hop intercity systems. The receiver includes a clamper to stop picture bounce, reduce low-frequency noise, and eliminate hum from the video signal. The system can be expanded to a fully redundant system and may be equipped with up to four audio subcarrier channel modules.



Horizon switching system

The **Horizon**,™ a new audio/video switching system, has been announced by the Grass Valley Group, Inc., P.O. Box 1114, Grass Valley, CA 95945. The system is based on an 8 x 16 crosspoint module,

## The New L-W 244-ES Motion Analyzer



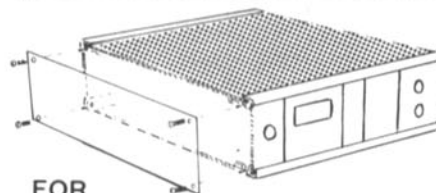
Combination 16mm sound and silent slow-motion/stop-frame projector. Ideal for analytical and classroom applications.

- Easy, self-threading system.
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Las Vegas, NV 89101-1197 U.S.A.

and is available in a variety of configurations up to a maximum size of 128 inputs X 128 outputs by four levels. The Horizon series uses specially developed monolithic and hybrid integrated circuits. A 64 X 64 switching matrix with dual power supplies occupies 31.5 in. of rack space. The microprocessor control system features coax cable command bus ports for control panels. A dedicated RS-422 port is included for maintenance X-Y control.

A system configuration/maintenance terminal port is also provided. Connecting any standard RS-232 ASCII data terminal to this port makes it possible for the user to modify the system configuration, alter input transcoding tables, and selectively block the selection of any input or any output. The terminal port also provides access to a number of useful maintenance functions.



*Amigo programming system*

The Amigo programming system for MK III telecines has been announced by Rank Cintel Ltd., Watton Rd., Ware Herts SG12 0AE, England. Making a new approach to computerized film-to-tape transfer, the system offers the user powerful editing capability on three levels. Operation is simplified by eight non-dedicated buttons, which are automatically re-assigned for the different stages of editing and re-labelled accordingly on the integral display screen. Software can be custom-designed and programs are stored on two floppy disks.

The system has 64 digital channels and 32 analog channels, which can be expanded to 48. Amigo sits in parallel to the main control system and requires no special interface. Features include two-reel editing capability; S-pan, which electronically reproduces the mechanical inertia present in camera panning and zooming; and "global edit" which applies a pre-determined offset to stored corrections to compensate for differences in line-up between telecines.



*TV-color analyzer*

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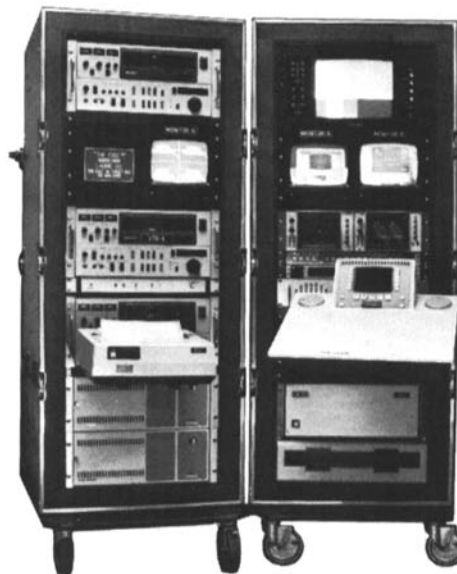
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