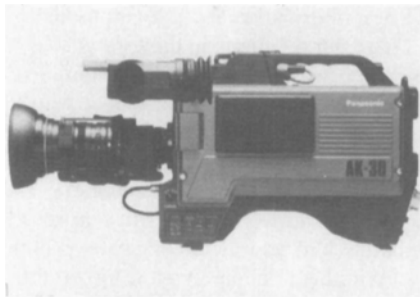


NEW PRODUCTS

Further information about these items can be obtained 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 SP-3A CCD 3-chip color camera, an improved model of the SP-3 designed for ENG and other field applications (see October 1984 *Journal*, p. 1002), has been announced by NEC America Inc., 130 Martin Lane, Elk Grove Village, IL 60007. The camera features a new CCD chip developed by NEC. The use of new CCD image sensors provides the SP-3A with superior light-handling capabilities. Other features include increased sensitivity ($f/4$ at 1500 lux), SNR of 58 dB, and permanent, accurate registration free from geometric distortion. Existing SP-3 CCD cameras can be retrofitted at the factory with the new CCD chips.



Panasonic AK-30 color video camera

A new color video camera, the AK-30, has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The camera uses three $\frac{2}{3}$ -in. Plumbicons to generate a horizontal resolution of 650 lines. Features include digital zone registration with memory and dual automatic white balance for two color temperatures. An automatic knee circuit improves dynamic range. The iris is also automatic with variable peak/average ratio.

A color TV studio camera, the SC-500, has been announced by Ikegami Electronics (U.S.A.), Inc., 37 Brook Ave., Maywood, NJ 07607. Features include dynamic focus, deflection distortion corrector for extremely low registration error, and a video matrix to provide accurate color matching between cameras. Other features include automatic centering control and automatic iris with weighting system. A newly developed nonvolatile memory retains all automatic correction data



Ikegami SC-500 studio camera

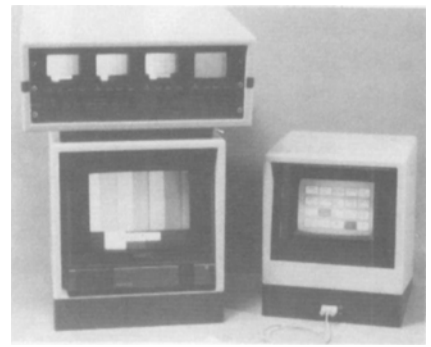
for several years, even when power is removed.

A transportable satellite terminal for broadcast television links has been introduced by GEC McMichael Ltd., Sefton Park, Bells Hill, Stoke Poges, Slough SL2 4HD, England. Designated the GM9050 terminal, it is only 3 m high, and is thus suitable for road or rail transportation. The low height is achieved by a specially designed elliptical antenna 2.8 m high and 5.6 m wide. The terminal covers the full Ku-band satellite frequencies for TV broadcast links.



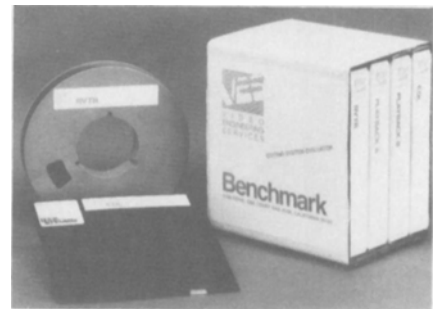
GEC McMichael satellite terminal

The Cinemagraphic editing workstation has been announced by EECO Inc., 1601 E. Chestnut Ave., Santa Ana, CA 92702-0659. The new workstation is an addition to the EMME™ family of computerized editing systems. Although it uses a standard time code, neither the time codes nor the edit list are seen by the editor. The computer-oriented operations are transparent to the end user, allowing the editor to edit with pictures and sound. The editor can view the edited material on a color monitor while a monochrome monitor displays all system options and functions. A



EECO Cinemagraphic editing workstation

1-button "mouse" controller is used to make editing decisions from the system monitor.



Video Engineering Systems Benchmark

Benchmark, an edit decision list-based evaluator for SMPTE time-code editing systems, has been announced by Video Engineering Systems, 336 S. Able St., Milpitas, CA 95123. Each Benchmark package is programmed onto three reels of 1 or $\frac{3}{4}$ -in. videotape and can operate on NTSC or PAL time-code editing systems. Four floppy disks that contain the edit decision list-based test with nearly 800 technically sophisticated edits are included.

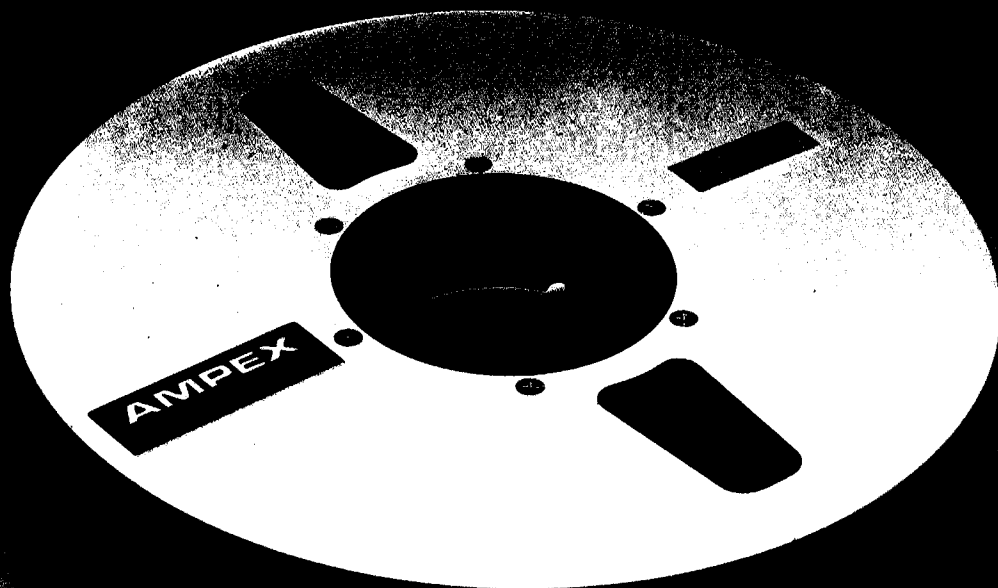


Solid State Logic SL 5000 M audio production system

The SL 5000 M audio production system has been announced by Solid State Logic, Churchfields, Stonesfield, Oxford OX7 2PQ, England. A new series of hybrid chips substantially reduce the size, weight, complexity, and power consumption. A single SSL hybrid chip can provide a balanced and earth-free output capable of driving a 600-ohm load at +28 dBm. The chip takes up an area of about 40×15×5 mm. The SL 5000 M consoles

Ampex Video Tape Scores a Perfect Ten

AMPEX



To capture the excitement of 8,000 hours of the Summer Games, ABC knew they'd need a video tape that was picture perfect.

That's why ABC chose Ampex 196 1" helical video tape and 197 3/4" videocassettes as the exclusive tapes to record the biggest events in the history of sports. It was an incredible honor for Ampex. One earned through years of consis-

tently crisp, clean performance. Reel after reel. Generation after generation. Even under the pressures of heavy editing and multiple generation dubbing.

So if you're looking for a video tape with a track record for reliability and quality, look to Ampex 196 and 197. ABC did. And their perfect performance made them the biggest winners of all.

AMPEX

Ampex Corporation • One of The Signal Companies

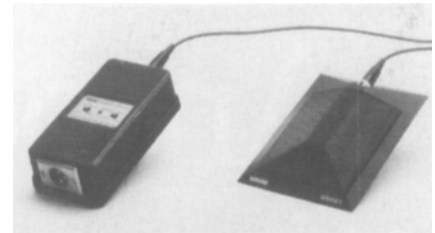
Ampex Corporation, Magnetic Tape Division, 401 Broadway, Redwood City, CA 94063, 415/387-3809

are based on a flexible arrangement of audio, logic, and data buses. A system of modular motherboards distributes these buses throughout the console mainframe. The audio and control buses are distributed both horizontally and vertically.

The **Post-Pro audio console** has been announced by ADM Technology, Inc., 1626 E. Big Beaver Rd., Troy, MI 48084. Designed specifically to interface with computer editors, a parallel logic is standard, and a serial interface is optional. Up to 12 inputs are available. Each input may have an optional 3-band equalizer with high-

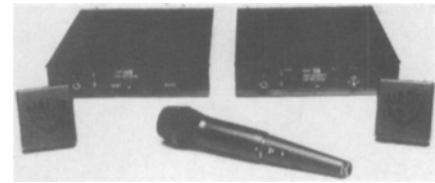
pass/low-pass filter. Other features include VCA attenuators and special output busing.

The **SM91, a unidirectional condenser microphone**, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. Said to be the first unidirectional microphone to utilize boundary effect, its advantages include minimized low-frequency noise and rumble, less tendency toward feedback, and avoidance of phase cancellation. The half-cardioid pickup pattern of a surface-mounted



Shure SM91 unidirectional microphone

SM91 permits the microphone to operate with less reverberation and muddiness than omnidirectional surface-mounted models. The unidirectional pattern also allows effective isolation without the need for physical isolation barriers often used with "pressure zone" models.



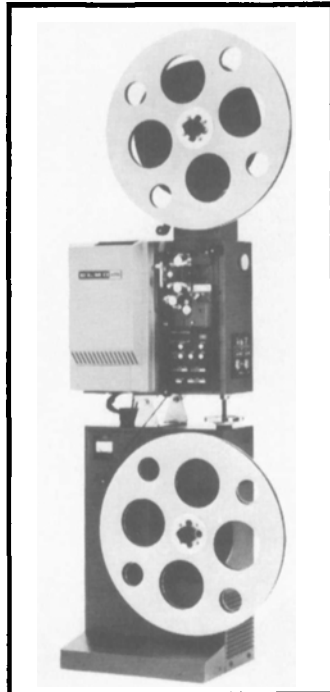
Nady Systems 601/701 wireless microphone and instrument systems

The **601 and 701 VHF microphone and instrument systems** have been announced by Nady Systems, Inc., 1145 65th St., Oakland, CA 94608. The units include a switchable balanced line and microphone output, an unbalanced line output, and a monitor output to drive a headset or for line feed for instrument amplification. Ten 3-color LED trees on the receivers indicate signal strength and audio level. The 601/701 systems operate with no overload distortion or background noise. Dynamic range is 120 dB max SPL to A-weighted noise level.

A new **cardioid condenser microphone, Model PL78**, which offers exceptional gain before feedback for both vocal and instrumental live-performance applications, has been introduced by Electro-Voice Inc., 600 Cecil St., Buchanan, MI 49107. The new microphone achieves heightened gain before feedback through a smooth, peak-free frequency response, a fine-tuned cardioid pickup pattern, and innovative transducer positioning. Placing the transducer element close to the front of the microphone reduces unwanted background and reflected sound and minimizes feedback problems. The microphone's high output sensitivity boosts vocal and instrument sources of low signal strength, while the highest sound pressure levels are reproduced without overload or distortion.

The **EC-101 in-machine synchronizer**, designed to enhance the capabilities of the MTR-90 series transport, has been announced by Otari Corp., 1753 Glenwood Dr., Scotts Valley, CA 95066. When fit-

THE ULTIMATE PROJECTOR



Elmo Pedestal Projectors are a tribute to user needs rather than abstract engineering. We set out to build the "ultimate projector"...and we did! Thanks to Elmo, the traditional bulky, hot, temperamental theatre projector is gone. 1000W or 2000W Xenon-brilliance delivering up to 5500 lumens of pure white light. It performs flawlessly. Elmo push-button operation makes it simple. Compact design to fit virtually any projection booth.

Look further. Most theatres have their own sound system, but if it breaks down, that's no problem. The Elmo has its own built-in 60W sound system...plus built-in two-track stereo and laser optical sound. *All standard equipment!* Maintenance? Minimal and straightforward. Want to project standard reels with changeover? Sure, it's built-in. Want to show 6000 foot reels...Of course, that's standard too!

Elmo Theatre Projectors have been acclaimed as the "ultimate" by experts. Want proof? Now in use at a highest level Washington D.C. federal facility; by leading professional motion picture labs; in a major motion picture studio; in private homes of two Hollywood superstars; in leading universities, museums, commercial theatres and corporate headquarters.

Prices start at \$12,000.

Nothing compares with Elmo Xenon Projectors

The A-V Innovators since 1921

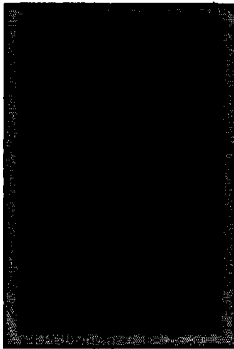
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NTSC. YIQ. Now you can make the most out of both. Because now Panasonic lets you do what you couldn't do before: Enhance your existing NTSC equipment with the higher performance and lower operating costs of the Panasonic YIQ M-Format. The result: 1-inch performance from 1/2-inch equipment.

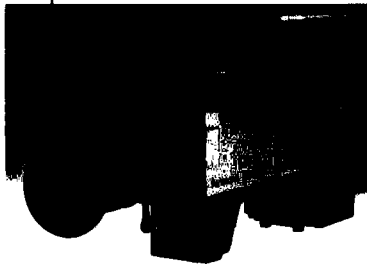
Recam.™ We've got your configuration.

ENG, EFP, and Studio. The three key Recam configurations. In either three-tube Plumbicon* or Saticon† versions. And now you can use all Recam cameras and VCRs with all your existing equipment because they're all YIQ/NTSC compatible.

The Recam B-100B camcorder. It gives a single operator total control of both video and audio. With video playback and two-channel audio monitoring in the viewfinder. In the field, Recam gives you up to two hours from its on-board battery compared to just 20 minutes from some other camcorders.

In the studio, Recam cameras can be fitted with an optional 5-inch viewfinder and camera control unit for total broadcast versatility.

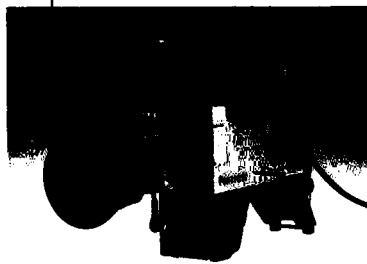
*Plumbicon is a registered trademark of N.V. Philips.
†Saticon is a registered trademark of Hitachi, Ltd.



ENG Camcorder

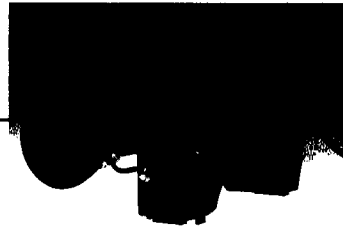


Studio Configuration



EFP Configuration

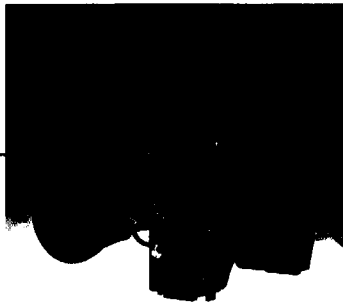
Any
VTR



Any
VTR
or
System

The AK-30 stands head-to-head with the bestselling broadcast camera in the world.

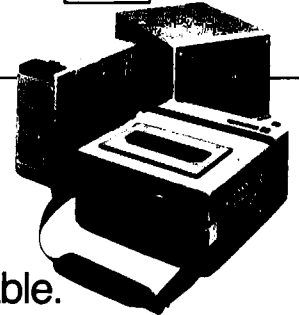
Digital registration. Image-enhancing circuitry. Dual white balance with memory. Three high-focus-field Plumbicon tubes. It's the Panasonic AK-30. And it will challenge even the bestselling broadcast camera in the world. With the industry's highest S/N ratio: 62dB. And a razor-sharp 650 lines horizontal resolution. ENG, EFP and Studio



configurations. It works with triax and has a negative film switch for telecine use.

Triax
Adapter

Only Panasonic gives you 1-inch color playback quality in the field from a 1/2-inch portable.



Up to now, if you wanted the quality of 1-inch color playback in the field, you had the hassle and expense of 1-inch equipment. Now all you need is the Panasonic AU-220 portable VCR.

It's YIQ compatible. So you get 1-inch color performance from 1/2-inch equipment. The AU-220 also records and plays standard NTSC.

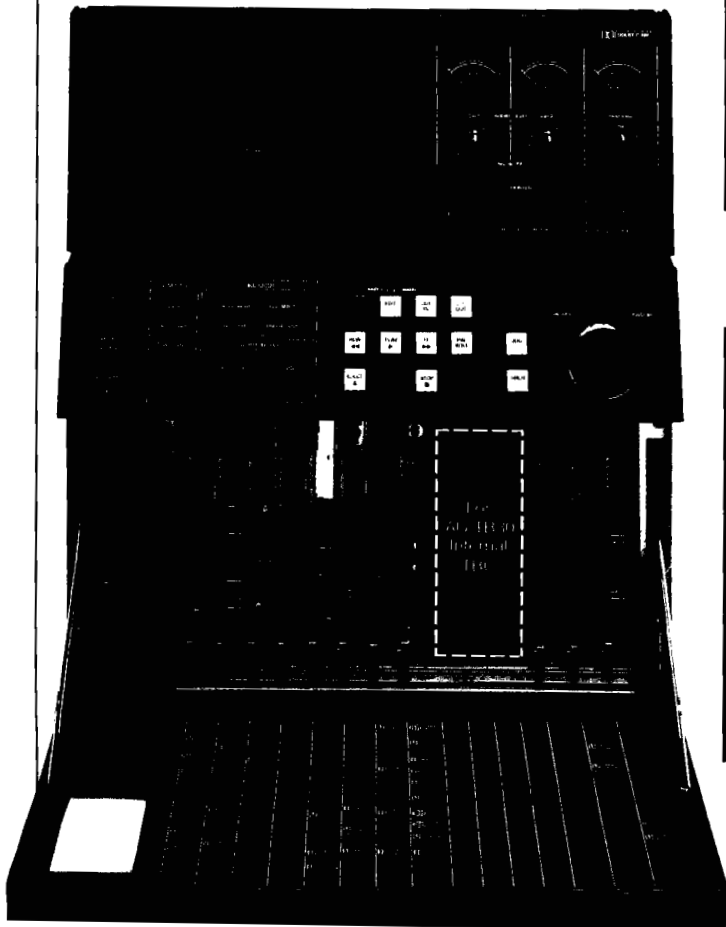
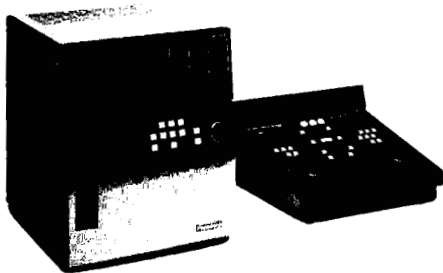
In the studio or van, the AU-220 doubles as an ideal source VCR when you add the AU-S220 adapter. It provides power, a drop-out compensator, and a fully corrected broadcast signal when you add a TBC, vectorscope and WFM.

For field playback on a budget, choose the AU-100KB and get black and white video confidence in the viewfinder.

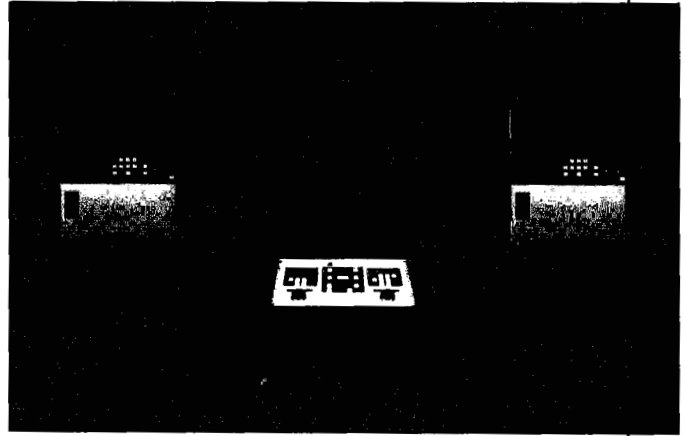
behind component compatibility.

When it comes to post-production, Panasonic speaks the language.

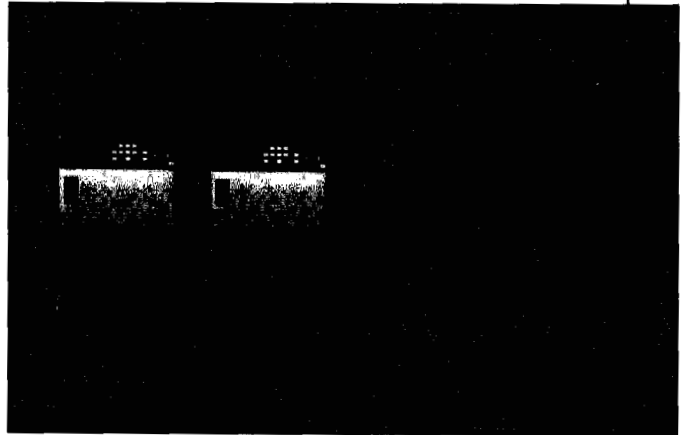
The Panasonic RS-422 Serial Interface can improve VCR systems control. Because it lets you control high performance YIQ M-Format VTRs from your existing VTRs and editing systems. The Panasonic AU-300B editing recorder, the AU-TB30 internal TBC, the AU-A30 full-function editing controller and AT-Series color monitors. Complete compatibility for total control.



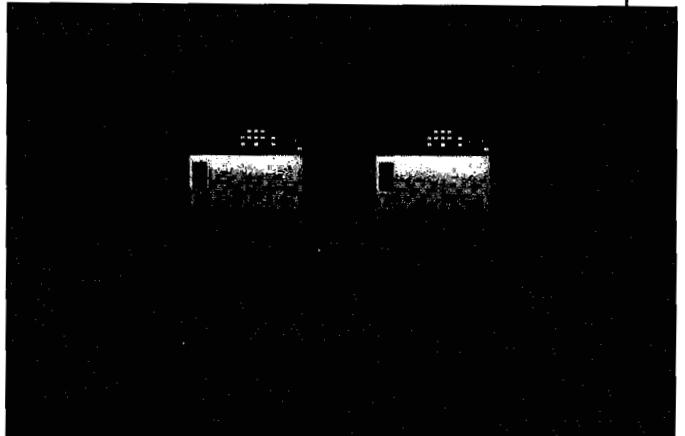
SIMPLE EDITING

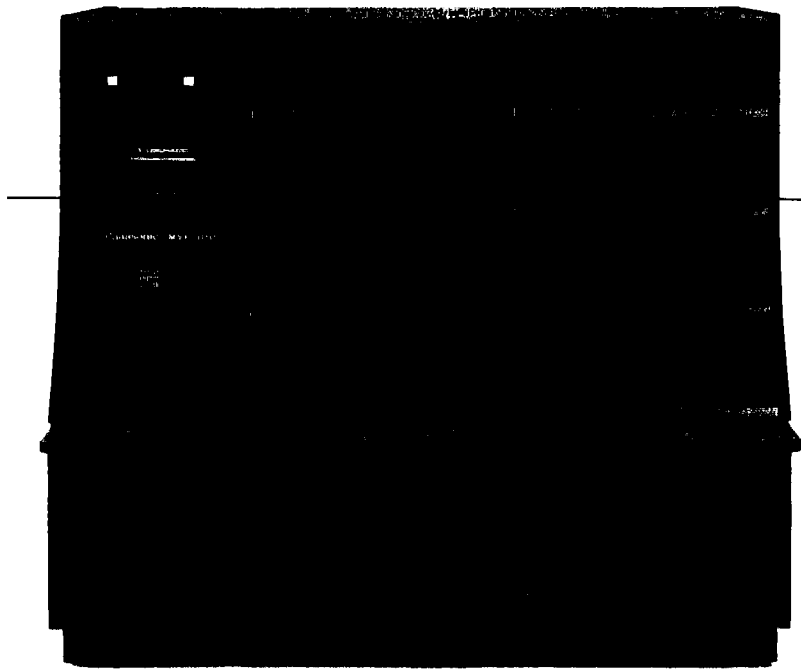


MULTI-SOURCE EDITING



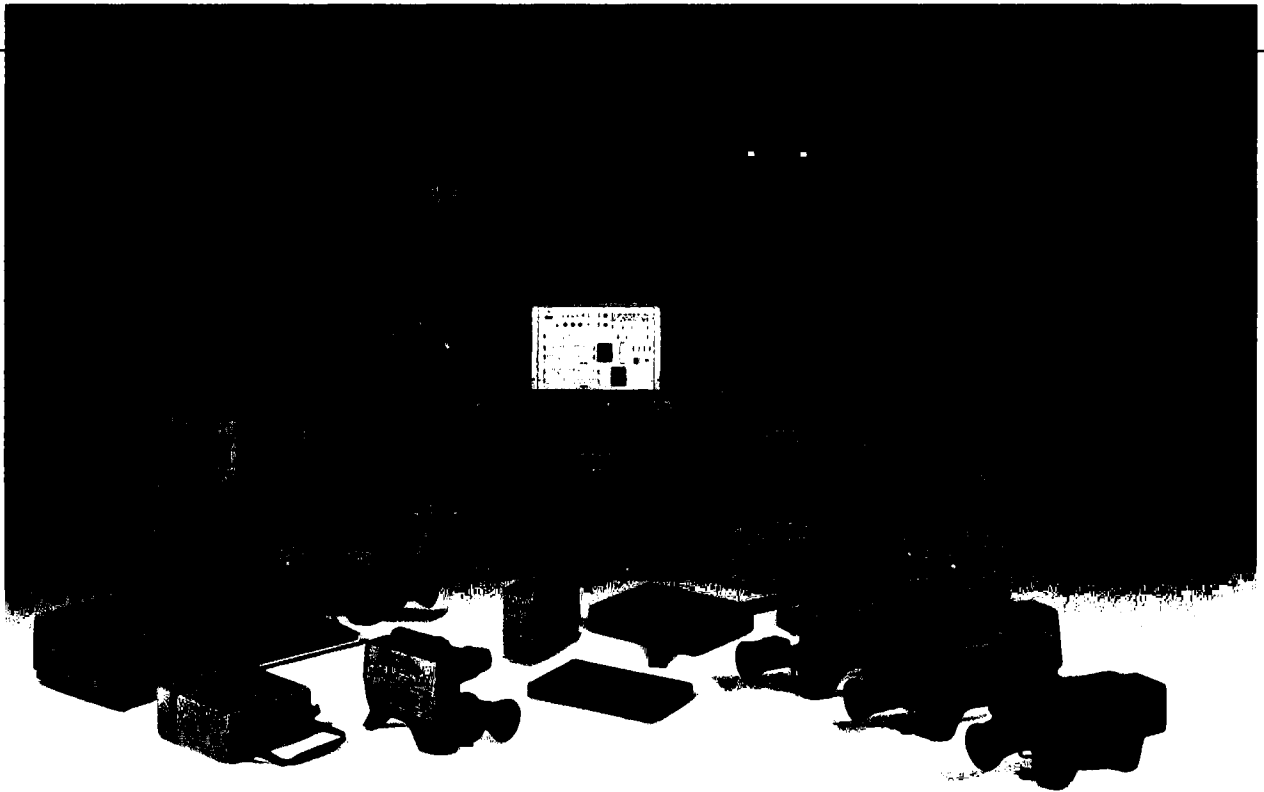
INTER-FORMAT EDITING





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It's the MVP-100 and it will revolutionize your station. Because it lets you program in advance, and automatically air, everything from news spots to commercials to station IDs. Even complete program-length material. All with YIQ quality, time-code accuracy and computer-controlled reliability. At a lower operating cost than conventional cart machines. Its recorders, spot players, and up to 24 modular transports operate independently. So the MVP-100 can even be programmed to override a breakdown the moment broadcast continuity has been interrupted to virtually eliminate dead air.



Panasonic Broadcast Systems.

Panasonic broadcast components can enhance any broadcast system. Not only will we make your images look better with advanced M-Format technology, we'll make it easier for you to originate, produce and broadcast them.

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Panasonic
Industrial Company



Otari EC-101 synchronizer

ted with an EC-101, the MTR-90 transport can maintain frame lock in both forward and reverse directions from 0.2X to 2.5X play speed and can park within two frames (typically within zero frames of the master machine).

A new signal processor, the BBE 202R, has been announced by Barcus-Berry Electronics, Inc., 5381 Production Dr., Huntington Beach, CA 92649. The device is designed to maximize sound fidelity in audio and video products, using a sound technology based on load reactance compensation. The unit utilizes high-speed dynamic gain-control circuitry to audibly improve the reproduction of program transients.



Angenieux zoom lens for ENG cameras

A new broadcast lens, the 14X9 ENG, has been announced by Angenieux, 7700 N. Kendall Dr., Miami, FL 33156. The lens has an aperture of $f/1.6$. The torque and weight factors have been reduced by incorporating a built-in 2X extender lens so that the center of gravity is closer to the cameraman. Internal pins have been replaced with strong rods fitted into grooves, thus eliminating bumps and jumps caused by conventional pins that become damaged due to the abuse that ENG lenses must take.

The Model GR-3 camera cart, featuring adjustable camera elevation from 3 ft 7 in. to 6 ft 10 in., has been announced by Wheelit, Inc., P.O. Box 7350, Toledo, OH



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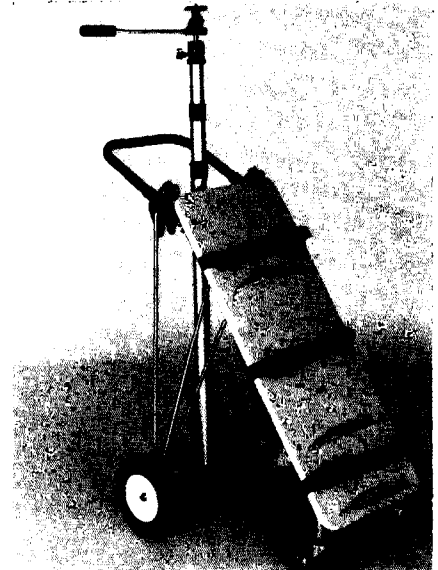
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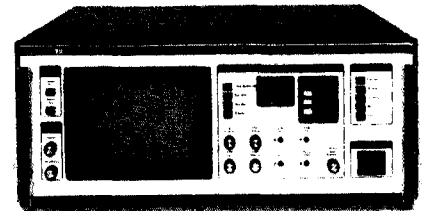
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Wheelit GR-3 camera cart

43615. A fluid head with pan-and-tilt action can accommodate cameras up to 10 lb. The cart is designed to transport video systems up to 150 lb. It provides three brackets and equipment straps to securely mount the monitor, recorder, and battery.

Rezinar filters, made by combining an optical-quality plastic with a proprietary production process, have been announced by Tiffen Manufacturing Corp., 90 Oser Ave., Hauppauge, NY 11788. The filters are described as "true diffusion filters, with ripples going through the plastic. The fogs are true fogs, and the star effects have sharp, crisp stars."

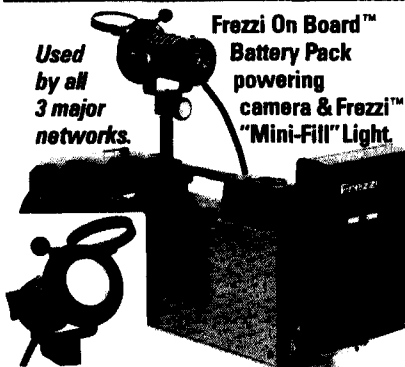


Vii Model 351 test pattern generator

The Model 351 TV camera and display test generator has been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385-0033. The instrument combines a test pattern generator and a 7-in. display for visual comparison of the test pattern with the display device under test. The 351 has a wide range of patterns including video (which includes resolution, black reference, and gray scale), bars (crosshatch), centering flat field, and window. Bars and dots can be mixed into the camera signal to be used as a reference in scan linearity.

The VS13AO video sweep generator, used as a signal source for wide-band video equipment and high-band monitors and cameras, has been announced by Asaca/

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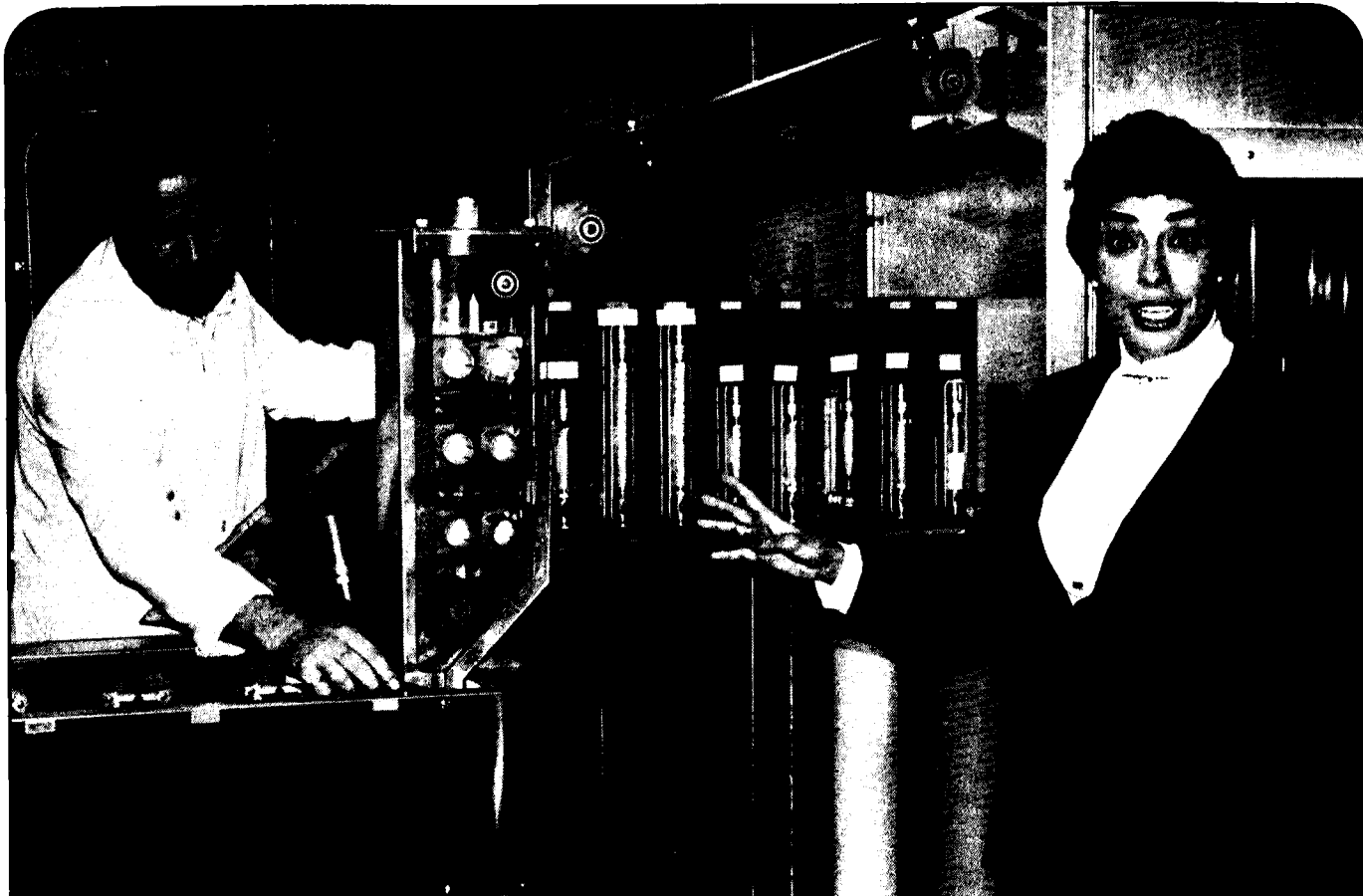
For more information and catalogs call (201) 427-1160/1/2.

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Memo to Members:
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OUR FIRST CHOICE

“We looked at several different ECP-2A processors,” said Ana Holmes, President, Frank Holmes Laboratories in San Fernando, CA, “before making our selection.”

When the cost of converting an old processor almost equaled the cost of a new one, it was time for some careful evaluation. And that is exactly what Mrs. Holmes and Lab Manager Les Meek did. They attended trade shows, visited manufacturing facilities, and listened to proposals. Their first choice . . . an Allen. Not only were they impressed by Allen's quality construction, but they also liked the automatic controls and a unique design feature that allows them to expand the machine's capabilities as their volume grows. But Allen's reputation for making quality equipment is only part of the story. Allen is also known for its great service and technical support. For details, request literature or talk with an Allen Rep.



Allen Products

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