

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.



TH-400 videotape recorder, RCA

A 1-in. videotape recorder, the TH-400, has been announced by RCA Broadcast

Systems Div., Camden, NJ 08102. The Type-C format TH-400 can be configured as a tabletop recorder, rack mounted, or placed into a console for use in field or studio. The studio console configuration features a dual-channel switcher that permits time-sharing monitors for picture, waveform, and audio. The recorder's scan-tracking system provides continuously variable play from still-frame playback to 1½ times play speed with no picture breakup.

The control panel has a number of desirable features, such as automatic or manual adjustment of equalization and manual override for operator control of the color-framing circuitry. Computerized frame editing is standard.

The Astron I, a color video camera weighing less than 2 lb, has been announced by Elmo Mfg. Corp., 70 New Hyde Park Rd., New Hyde Park, NY 11040. Both VHS and Beta formats can be recorded by simply moving a lever located outside of the camera.



Astron I video camera, Elmo Mfg. Corp.

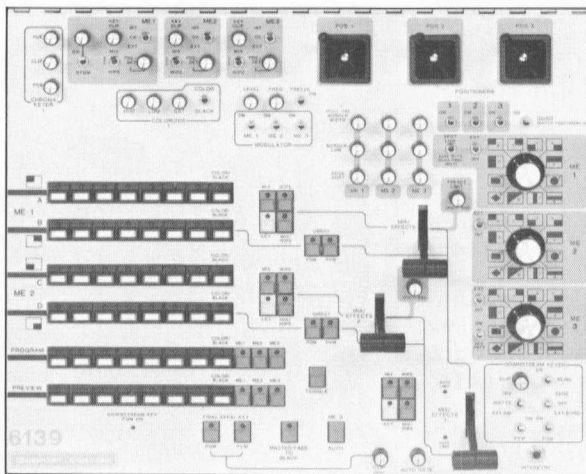
Features include Focusfree™ and zoom capability. Focusfree permits the user to push a button for proper focus. The f/4 zoom lens can operate under 50 lux low-light conditions. Other features include a ½-in. Saticon and a three-position lever on the outside of the camera that provides color temperature compensation for incandescent, fluorescent, or sun light.

Improved versions of the ITC-730, a portable ENG/EFP color TV camera, have been announced by Ikegami Electronics (USA) Inc., 37 Brook Ave., Maywood, NJ 07607. Both ENG and EFP versions are available with three-tube f/1.4 prism-optics beam splitters, 2H detail correctors, ⅔-in. Saticon® tubes with type II

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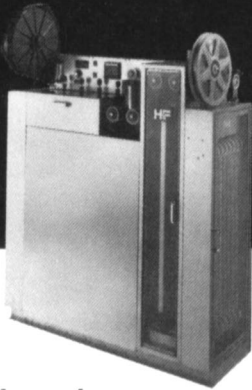
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ITC-730 ENG/EFP camera, Ikegami Electronics (USA)

surface for reduced highlight lag, auto-white balance, a noise-free contrast compression circuit, and a character generator in the viewfinder that indicates filter selection.

The ENG model has a lightweight camera head (11 lb) and balanced weight distribution. The EFP model uses a recently developed digital multiplex system that permits use of 13.5-mm flexible cable. The camera head can be separated by 300 ft from the CCU using battery power at the camera head, and by up to 1000 ft using ac power at the CCU.



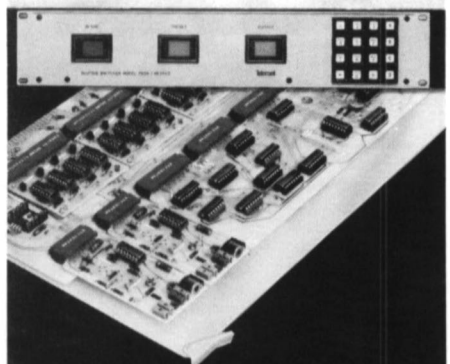
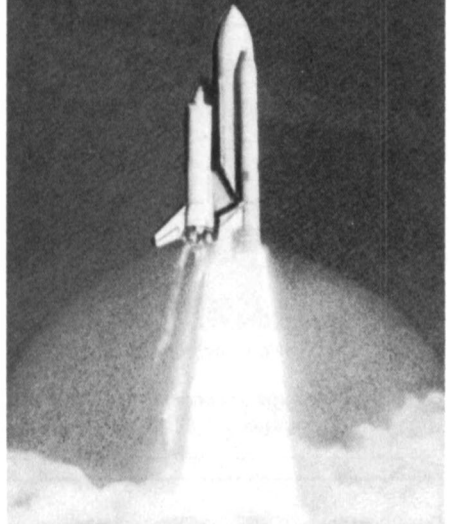
AG series, three VHS decks, Panasonic

Three 1/2-in. decks (VHS) have been announced by Panasonic, One Panasonic Way, Secaucus, NJ 07094. Designated the AG series, the decks have two ultrawide 70-micron heads designed exclusively for high resolution during search modes, while two 58-micron heads provide 2-hour recording and playback functions. All three decks have real-time counters in hours, minutes, and seconds, as well as auto features for rewind, play, and repeat.

Additional features are mode-lock, two separate audio tracks, and Dolby® noise reduction. All three models — AG-6300 and AG-6200 recorders, and AG-6100 player — show sharp, jitter-free pictures because of direct-drive video head cylinders, microprocessor logic, and aluminum die-cast chassis.

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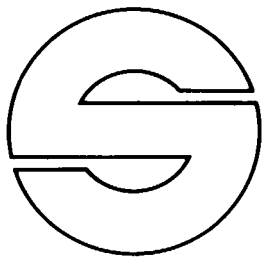
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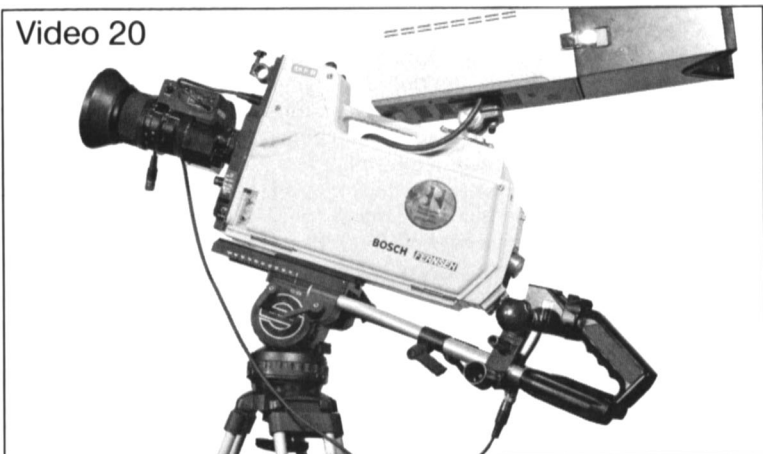
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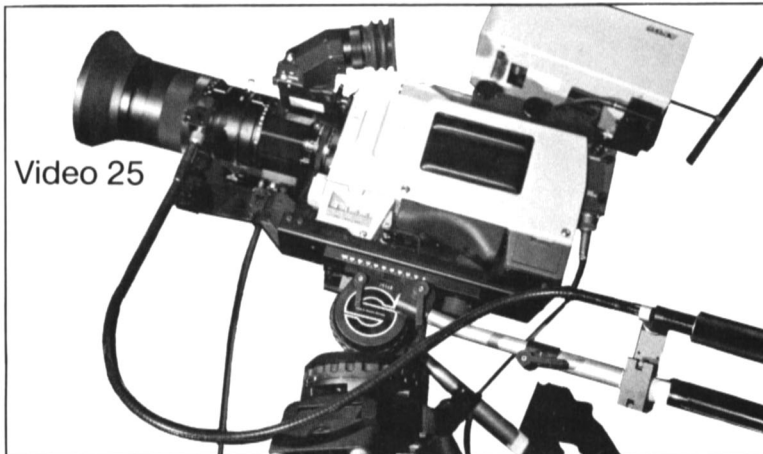
Panorama



Video 20

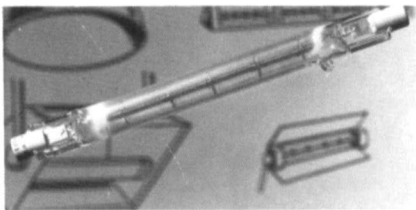


Video 25



Video 30





FWM Watt-Miser™ Quartzline® stage/studio lamp, General Electric

The FWM Watt-Miser™ Quartzline®, a new tungsten-halogen lamp, has been announced by General Electric, Nela Park, Cleveland, OH 44112. The new lamp uses 650 W and it is said to produce about the same amount of 3200°K light as a standard 1000-W stage/studio lamp, while generating 35% less heat.

The increased lamp efficiency is achieved through the use of an optical coating developed and produced in cooperation with the Optical Coating Laboratory, Inc., and developed for lamp application by a team of GE scientists and engineers. The optical coating is vacuum-deposited in numerous micron-thin layers, each of precisely controlled thickness, on the outside of the quartz filament tube. The coating freely passes light but reflects infrared heat energy back onto the lamp filament. This recycled heat permits the filament to be operated at its design temperature with fewer input watts.

The new FWM lamp produces 90% as much light as the standard FCM lamp,

but because of its lower wattage, lamp efficiency (lumens-per-watt) is increased 38%.



Variable focus spotlight, Strand Century

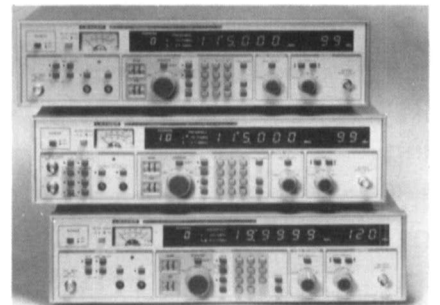
A 4.5-in. variable-focus spotlight has been added to the Lekolite line, it was announced by Strand Century, 20 Bushes Lane, Elmwood Park, NJ 07407. The unit features adjustable lenses, and accepts lamps of 150 to 500 W with variable focus angles ranging from 25 to 50°. Other features include four push shutters and a template slot, a double flatted ellipsoidal specular Alzak-processed aluminum reflector, and a mini-can socket which accommodates an axially mounted tungsten-halogen lamp.

The 3H series of monochrome monitors has been announced by Ikegami Electron-



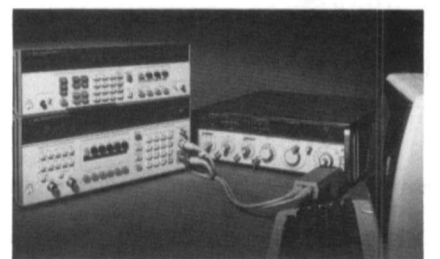
Monochrome monitor, Ikegami

ics (USA) Inc., 37 Brook Ave., Maywood, NJ 07607. The monitors provide high resolution at high brightness, and low geometric and differential gain distortion. Available in 9- and 14-in. screen sizes, the monitors are said to provide excellent stability over a wide range of temperature and input voltage.



Programmable signal generators, Leader Instruments Corp.

Three new programmable synthesized AM/FM RF signal generators have been announced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, L.I., NY 11788. The LSG-217 generator is designed particularly for use in the communications industry. The LSG-215 and LSG-216 are designed for AM/FM receiver design and production environments and broadcast testing. The front panel design includes LED displays for frequency, output level, and memory address.



Signal-generator test set, 8952A, Hewlett-Packard

A new signal-generator test set (150 kHz to 1300 MHz) has been announced by Hewlett-Packard, 1820 Embarcadero Rd., Palo Alto, CA 94303. Both key components of the test set, the HP 8902A measuring receiver and the HP 8903A audio analyzer, are microprocessor controlled and fully programmable. Among

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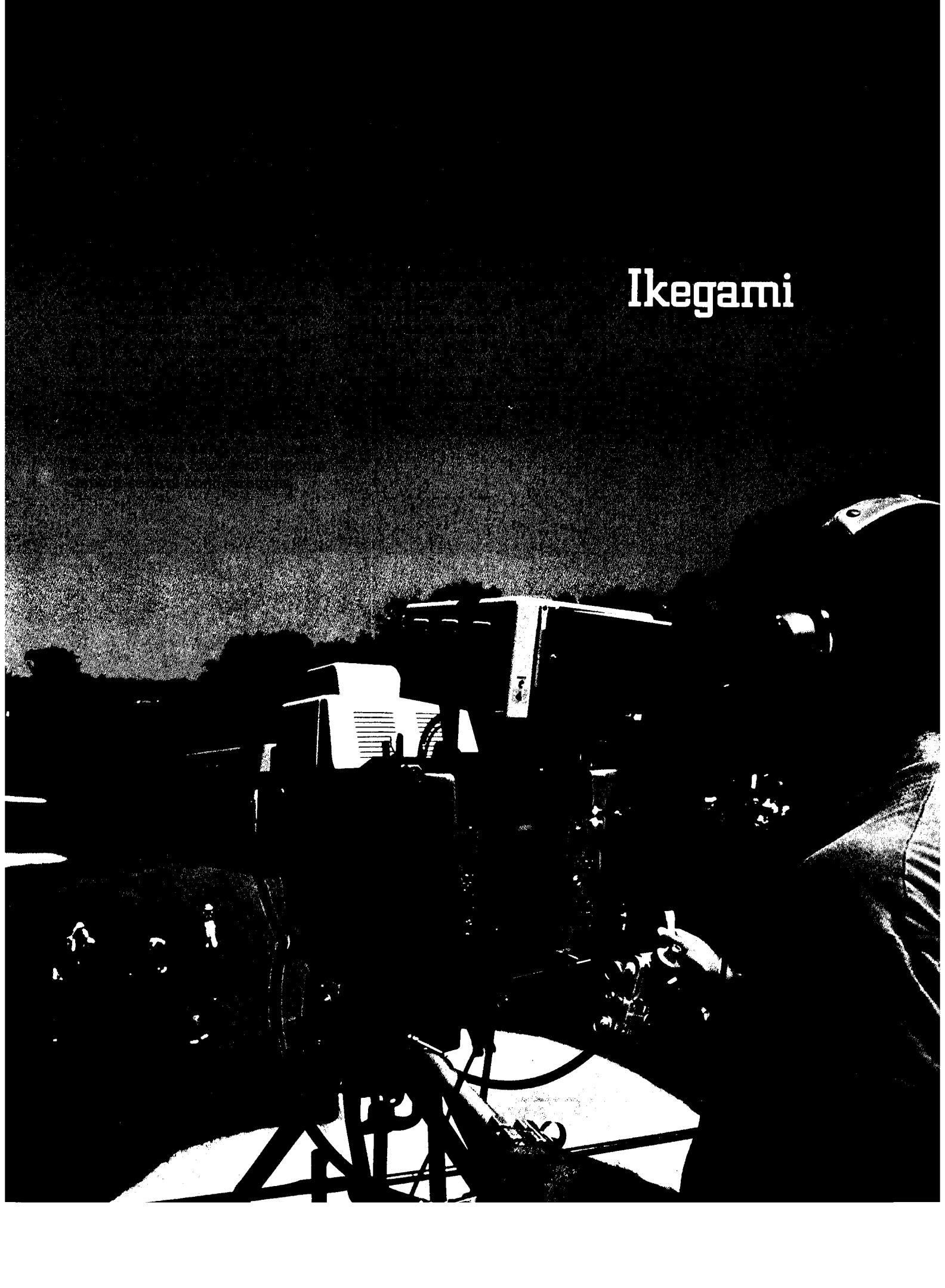
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The JBL logo is rendered in a bold, white, sans-serif font against a black background. A thin white line extends from the bottom of the 'J' and 'B' characters, ending in a small starburst graphic.The UREI Electronic Products logo is displayed in a white, outlined, sans-serif font. The letters are thick and have a double-line border, giving it a three-dimensional appearance. The text is arranged in three lines: 'UREI', 'ELECTRONIC', and 'PRODUCTS'.

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A small, solid black square containing the white JBL logo.

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A small UREI logo is visible on the front panel of the amplifier, which is shown in a dark, high-contrast photograph.

model 6500 POWER AMPLIFIER

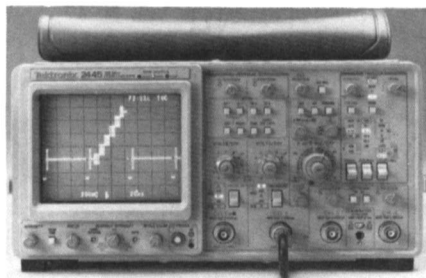
CLIP

the parameters the HP 8952A test set can measure are frequency range, output-level accuracy, AM depth, FM deviation, phase-modulation deviation, modulation distortion, modulation frequency, incidental modulation, residual-modulation frequency response, and modulation sensitivity.



Ku-band klystron high-power amplifiers, Varian Associates Inc.

A new generation of Ku-band klystron high-power amplifiers (HPA) offering energy efficiency and on-board computer control for remotely located earth satellite stations, has been announced by Varian Associates Inc., 611 Hansen Way, Palo Alto, CA 94303. Designated the GEN II VZU-2701G series, the HPAs enable users to select up to eight preset channels at nominal RF power outputs up to 3 kW. When equipped with an optional micro-processor-controlled interface board, the new HPA provides control and monitoring capability from a remote computer or terminal via an IEEE-488, RS-232, RS-422, or addressable bus data transmission line.



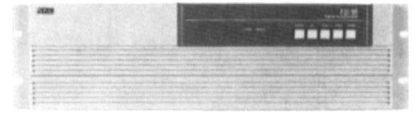
Portable oscilloscope with trigger option, Tektronix Inc.

A TV option for the 2400 Series portable oscilloscopes has been announced by Tektronix, Inc., P.O. Box 500, Beaverton, OR 97077. The new option provides an expanded and improved trigger and vertical functions to facilitate waveform viewing. Four trigger modes are provided: Field 1 selected line; Field 2 selected line; Field 1 selected line alternating with Field

2 selected line; and all lines. It can be used with interlaced or noninterlaced scans ranging from 525/50 to 1280/60.

The FS-18 frame synchronizer has been announced by NEC America Inc., Broadcast Equipment Div., 130 Martin Lane, Elk Grove Village, IL 60007. The FS-18 is extremely versatile in its design, featuring options for time-base correction, frame freeze, and 4-field color processing as simple, plug-in circuit boards.

The optional TBC includes automatic input detection circuitry to recognize either a direct or heterodyne VTR and properly compensate. The built-in data rotation and memory analyzer allow



FS-18 frame synchronizer, NEC America

quick diagnoses of suspected problems. By substituting the most important information in memory for the least important, the data rotation feature prevents memory failure. A single coax cable remote control for processing amplifier and mode switching simplifies installation.

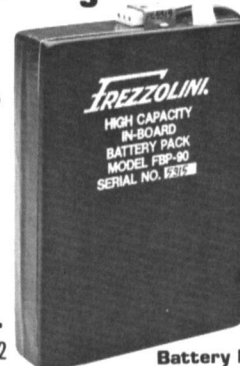
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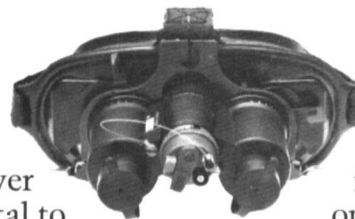
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