

# 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 HK-323, a family of studio/field color TV cameras,** has been announced by Ikegami Electronics (U.S.A.), Inc., 37 Brook Ave., Maywood, NJ 07607. The camera employs  $\frac{2}{3}$ -in. XQ-3427 low-input capacitance, diode-gun Plumbicons. One model has fiber-optic cable capability, while others are suitable for multi-core or triax-cable operation. The camera has complete computer control for automatic setup and many other automatic features. Its compact base station/CCU makes it suitable for use in small outdoor broadcast vans. Small ENG lenses can be used, and an adapter for larger studio lenses is available.



Panasonic AU-350 VTR

**The AU-350 front-loading,  $\frac{1}{2}$ -in. VTR** has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The new VTR can be used as an editing recorder, dubbing deck, and editing system source player. It can record and play back two different video signals (composite and YIQ component, audio channel 1 and 2 and time-code). Pictures are produced using a sophisticated 6-head system. The system also contains two flying, rotary erase heads, as well as control and time-code heads for recording and playback. With an optional time-code board plug-in, the AU-350 can read time codes or CTL signals, producing a readout on the counter or display for title viewing in the record mode. The unit also contains a speaker for audio monitoring.

**The CCD-1S camera,** a "sports" model of the solid-state CCD-1 ENG color TV camera, has been announced by RCA Broadcast Systems Div., Gibbstown, NJ 08026. The CCD-1S was designed espe-



RCA CCD-1S ENG camera

cially for improved coverage of sports events, including baseball, football, and horse races. It can see greater detail in rapidly moving objects and provides improved performance over a wide range of lighting conditions. The electronic "eyes" of the camera are three CCDs, developed by RCA, that replace conventional pickup tubes. The active element of all three CCDs can fit on a postage stamp. The new camera has a shutter speed of  $\frac{1}{500}$  sec which permits sharper slow-motion/stop-action video playback.



Panasonic WV-555B color video camera

**A new color video camera, the WV-555B, and an upgraded version of the WV-888 camera,** have been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. Features of the WV-555B include a  $\frac{1}{2}$ -in. scan system using three  $\frac{2}{3}$ -in. Saticons and a middle-index  $f/1.4$  prism optics system.

The upgraded WV-888 features a newly designed auto-centering circuit. It sets red and blue signal centering automatically for a precise adjustment virtually free from center error. With the circuit, the camera also senses when there is no acceptable reference signal and will not reset, even if the button is pressed by mistake.

**A lightweight video camera, the XC-A1,** has been announced by Sharp Electronics Corp., 10 Sharp Plaza, Paramus, NJ 07652. The camera is intended for corporate training departments and educational applications, as well as local cable origi-

nation. Features include auto-white, auto-black, auto-centering, an auto-iris circuit, and a zebra video level indicator.

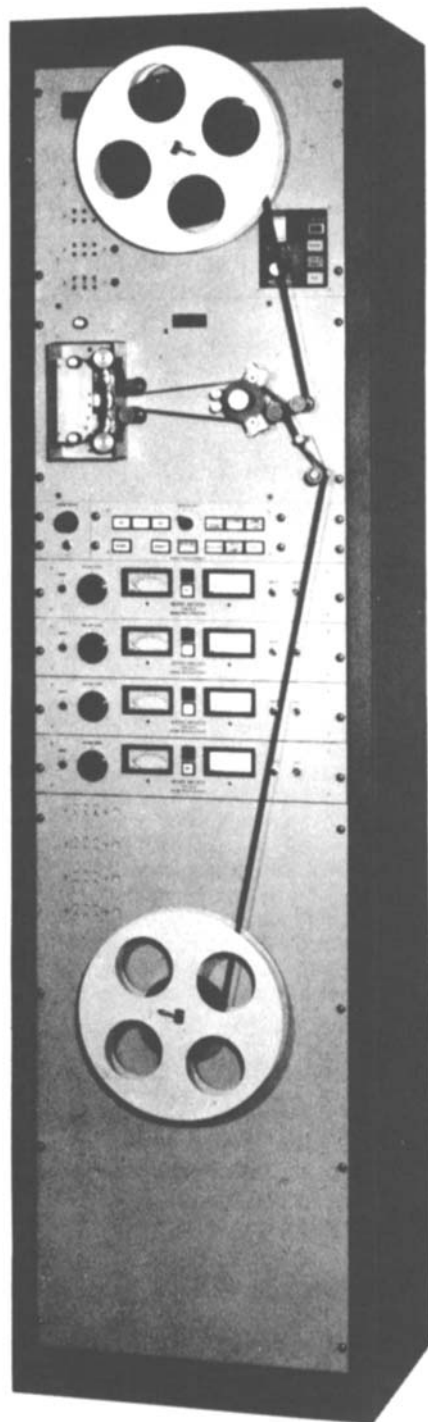
**The HR-230 1-in. videotape recorder** has been announced by Hitachi Denshi America, Ltd., 175 Crossways Park W., Woodbury, NY 11797. Features include built-in operational and maintenance diagnostics displayed on the operator's panel in words (not code), which monitor vital parameters during all operating modes. Any malfunction is immediately displayed and then stored into memory for later recall. An unusual feature is that the HR-230 will give priority to display of the most serious problem.



Studer Revox A80VU-3 LB video playback recorder

**A video playback recorder, the A80VU-3 LB,** designed for video post-production applications, has been announced by Studer Revox America Inc., 1425 Elm Hill Pike, Nashville, TN 37210. The unit provides recording and reproduction of audio tracks on 1-in. videotape. It can be converted to record and reproduce audio tracks on either Type-B or Type-C videotapes by exchanging the headblock and the tachometer roller. The headblock is equipped with erase, record, and reproduce heads for three audio channels.

**A new  $\frac{1}{2}$ -in. video recording format, designated MII,** has been introduced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The new format is reported to produce pictures equivalent to those of 1-in. video recorders. The VCR, Model AU-600, was developed through



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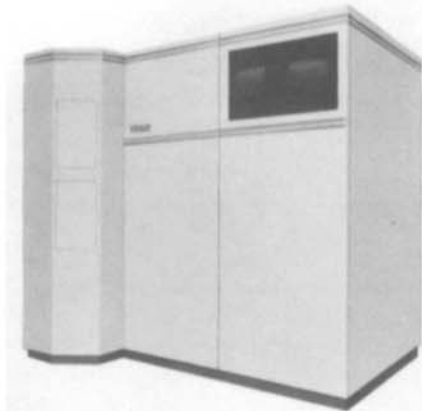


Panasonic AU-600 videocassette recorder

technical collaboration with NHK. The recorder's use of 1/2-in. metal powder cassette tape provides flexibility for record-

ing, playback, editing, and transmission of video signals. It utilizes a Y/C separate component recording system together with a time-compression multiplex (CTCM) recording system for the color signal. The tape provides a recording time of over 60 min. The AU-600 features front loading and is designed for 19-in. EIA rack mounting.

A computerized system for television stations, designed for fast, efficient handling of TV commercials, news, and short or long program segments, has been announced by RCA Broadcast Systems Div., Gibbsboro, NJ 08026. Designated



RCA Silverlake TCR-500 automatic cassette system

the Silverlake TCR-500, the system has on-line capability of 281 videocassettes and a data base large enough to handle a library of 65,000 cassettes. Features include an on-line programming capacity of 93 hr and a managed capacity of 21,000 hr of recorded material. The system utilizes ChromaTrak M-format VTRs and a component video switching system to provide a continuous video source for station programming.

A permanent antistatic process has been developed by 3M, P.O. Box 33600, St. Paul, MN 55144. The process, using a proprietary compound developed by 3M Harlow Laboratories in England, is designed to implement static discharge. The surface treatment has no adverse effect on the dimension fit or operation of cassette parts, and helps prevent static charge buildup over the life of the cassette. The treatment renders the half-life electrostatic charge so short that plastic parts cannot retain a static charge. In tests by 3M, the initial surface potential of untreated videocassettes averaged 2600 V; after electrostatic charging, the average increased to 6080 V. For treated cassettes, the initial measurements averaged only 78 V and dropped to 67 V during attempted electrostatic charging.

An improved 1/4-in. videotape for use with U-Matic recorders has been developed by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The series EB-930 broadcast grade and EP-930 professional grade feature substantially improved coercivity over the previous formulation (EB-900 and EP-900). The RF output is 3 dB higher, and luminance and SNRs are 0.5 to 1 dB higher. A new, highly conductive backside coating reduces static charge. The new formulation was designed for European broadcasters using the PAL system; however, the electromagnetic properties of the new tape are also suitable for the RF output capabilities of the current generation of U-Matic recorders used with the NTSC system.



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Ikegami 9-Series 14-in. TV monitor

Improved versions of its 9-Series color TV monitors have been announced by Ikegami Electronics (U.S.A.), Inc., 37 Brook Ave., Maywood, NJ 07607. The 14-in. (13 V) and 20-in. (19 V) models have higher resolution than previous models. The monitors, produced by Ikegami in Japan, feature advanced circuitry and self-converging, high-resolution in-line gun shadow-mask picture tubes with American standard matching phosphors. The need for frequent magnetic convergence adjustments has been eliminated. The black-matrix screen enables pictures to be displayed with a high degree of contrast, even under bright lights. Other features include a fine dot pitch shadow-mask, comb filter, residual subcarrier test, and NTSC matrix switch. Protective circuits are incorporated in both high and low-voltage power supplies to prevent CRT damage.



Sharp Electronics XM-1900 color monitor

The XM-1900 19-in. high-resolution color monitor, featuring Type-C controlled phosphor for precise colorimetry, has been announced by Sharp Electronics Corp., 10 Sharp Plaza, Paramus, NJ 07652. A comb filter minimizes cross-color interference. The monitor detects the presence or absence of burst and automatically selects the optimum display mode. Manual controls are provided to handle unusual situations. An automatic degauss circuit removes magnetism due to external fields. Two video and direct RGB inputs can be selected to allow input from cameras and peripheral equipment. The RGB inputs accept signals from both an analog video source and TTL.

Also announced was the XM-900, a low-cost color monitor designed for studio, field production, and editing applications.

The A62 digital disc recorder and the A52 digital effects combiner have been announced by Abekas Video Systems, Foster City, CA 94404. The A62 is a single-frame editing device used for animation and videodisc mastering. Simultaneous record/play capability makes it possible to play back a signal, matte it externally, and re-record it in real time. The A52 combiner can accommodate up to four control panels and two channels. It can be configured as a dual channel, controlled from any one of the four channels, or as two independent single channels controlled from any two of four control channels.

A new telecine camera system has been announced by Ikegami Electronics (U.S.A.), Inc., 37 Brook Ave., Maywood, NJ 07607. Intended for professional broadcast and TV post-production applications, the system consists of the TKC-990 or TKC-970 telecine camera, FPH-16 self-threading 16mm telecine film projector, SPR-35 professional telecine 35mm slide projector, and MPK-3V optical multiplexer. The TKC-990 is computer controlled and has a programmable scene-by-scene manual correction system option. An adjustable color-correction option is available with both cameras, and automatic color-balance is standard. The

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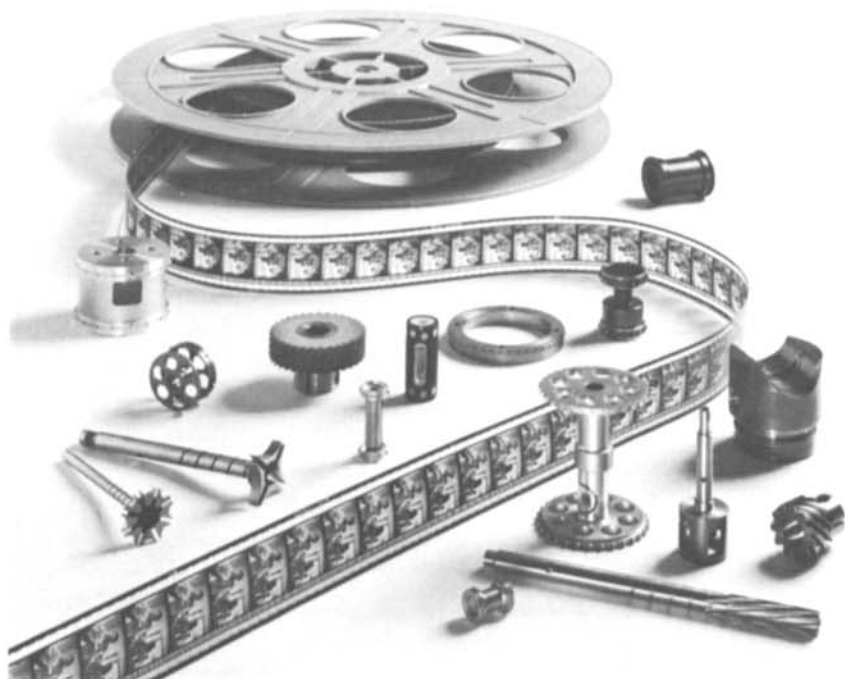
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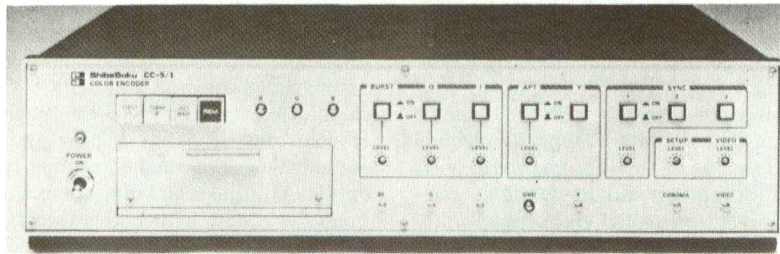
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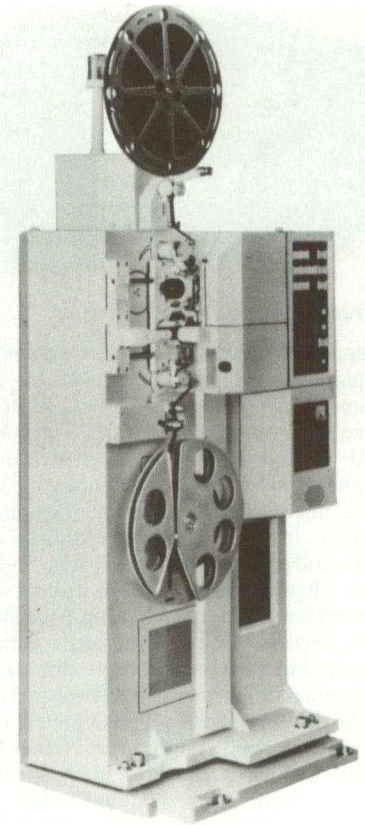
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*Ikegami FPH-16 telecine film projector*

cameras employ three 1-in. vidicons or Saticons, utilizing dynamic focus with an improved deflection coil assembly to provide resolution of 700 lines at the center and 600 lines at the corner.



*Panasonic C-2000 satellite receiver*

**The C-2000 satellite receiver** has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The receiver is fully compatible with all Panasonic C-band and Ku-band low-noise block-down converters. Features include a wireless 10-function, infrared, remote control for power, channel selection, volume setting, polarization, antenna control, and audio preset. The C-2000 has automatic 6.8-MHz audio selection and is switchable to 6.2 MHz or auto-seeking by remote control.

Panasonic also announced the Ku/C-6000 satellite receiver which has 10-channel capacity. It was designed especially for teleconferencing and industrial applications.

Two C-band low-noise block-down converters, operating in the C-band, 3.7 to 4.2 GHz, were also announced. The converters utilize an ultra-stable ceramic resonator local oscillator.

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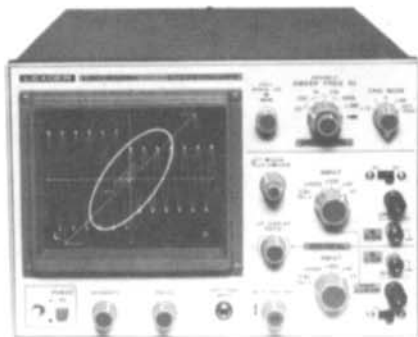
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The **Mega Machine**, has been announced by Lazerus Productions, 2821 Ninth St., Berkeley, CA 94710. The Mega, a multi-processor electronics package for the PC, XT, and AT, can interactively generate and animate 3-D textured objects in real time. The machine has 1M-byte local memory expandable to 16M-byte. It can display 4096 simultaneous colors out of a palette of 16 million in high-resolution or NTSC/PAL mode.

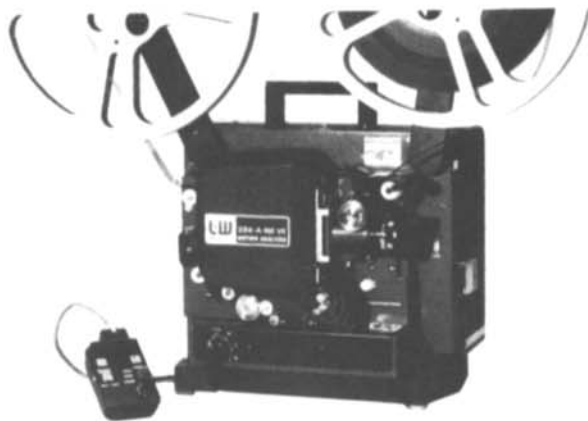
The **SL 5000 M series audio production system** has been announced by Solid State Logic, Stonesfield, Oxford OX7 2PQ, England. The system can accommodate mono, stereo, and advanced multi-channel television sound formats. Using modular Eurocard cassettes and mainframe architecture, expandable in length and depth, the SL 5000 M allows users to specify 12 to 64 mono or stereo inputs and the signal processing features on each input. Consoles can have up to eight dedicated stereo audio subgroups, eight VCA subgroups, and eight independent main outputs, as well as stereo and mono program outputs. Switching is electronic. The system can interface with the optional SSL Instant Reset™ computer, allowing the engineer to store and reset all audio routing throughout the system, or the SSL studio computer, providing floppy-disk-based dynamic mixing, machine control, and session information management.



Leader Instruments LBO-552BH1 stereoscope

The **LBO-552BH1 stereoscope** has been announced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY 11788. The instrument displays left and right channel traces side by side, simplifying channel-to-channel amplitude comparisons. Designed mainly for studio use, the stereoscope is rack mountable, and has rear panel XLR input connectors. The graticule has indications for left and right channels and a zero-phase angle reference line. The LBO-552BH1 can make stereo channel measurements of level, balance, azimuth, separation, and phase angle. An optional rack mount is available, requiring only 8 3/4 in. of rack space.

Three new lenses have been announced by Angenieux Corp. of America, 7700 N. Kendall Dr., Miami, FL 33156. The 18x12.5 HP lens for 1-in. studio cameras



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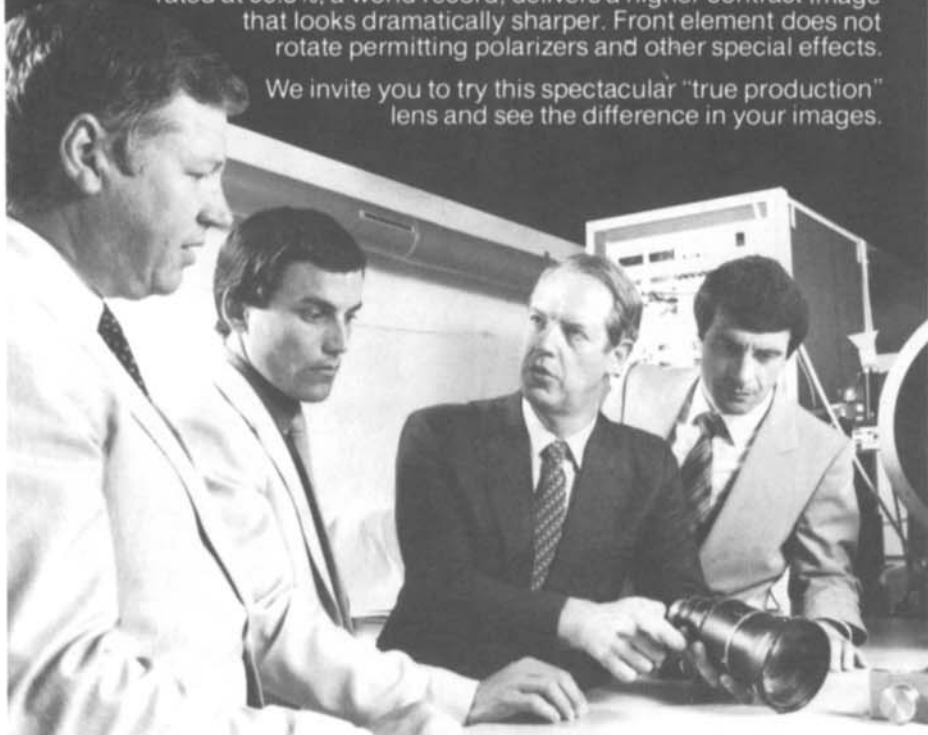
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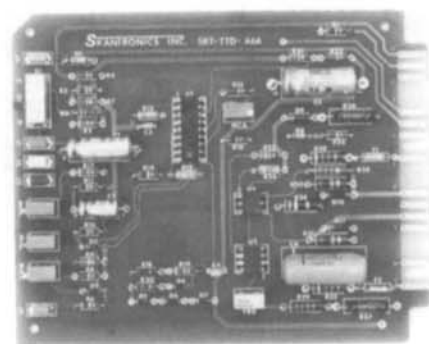
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and outside broadcast applications is equipped with two built-in range extenders, giving the lens an overall zoom range of from 12.5 to 565 mm. The lens has a maximum aperture of  $f/1.5$  and minimum object distance of 0.6 m. A super-wide-angle lens for  $\frac{2}{3}$ -in. ENG cameras, the 14x8, has a zoom range of 8 to 112 mm, an aperture of  $f/1.6$  to  $f/2$ , and a  $58^\circ$  horizontal angle of view. The lens weighs only 3.8 lb. The 24x10 HP lens for  $\frac{2}{3}$ -in. EFP cameras has a zoom range of 10 to 240 mm, a maximum aperture of  $f/1.4$ , and two built-in extenders. This lens has been adapted for use on the new  $\frac{2}{3}$ -in. studio broadcast cameras.



Strand Century Sirio HMI luminaire

The Quartzcolor Ianiro Sirio 12-kW HMI luminaire has been announced by Strand Century, Inc., P.O. Box 9004, Rancho Dominguez, CA 90224. Designed for large-scale film production, it is intended to replace the traditional Brute. The new luminaire is described as "the most powerful Fresnel spotlight available in the range of discharge lamp systems."



Skantronics SKT-TTD thyristor driver card

The SKT-TTD thyristor driver card has been announced by Skantronics, Inc.,

26800 N. Iron Canyon Rd., Canyon Country, CA 91351. Intended for lighting intensity control, specifically in theater and television applications, the SKT-TTD card contains all electronics to control Triacs or SCR pairs for lamp loads from 10 to 600 A RMS. Features include square law B transfer characteristics and a feedback network that holds lamp intensity constant regardless of line and load variations. The card can be used in new lamp dimmer design, or as a service or update component for any thyristor dimmer. It is a direct plug-in driver replacement for most Skirpan dimmers.

**The Opto-SX**, a switchless routing system for mode switching of parallel VHF television transmitters, has been announced by RCA Broadcast Systems Div., P.O. Box 900, Gibbsboro, NJ 08026. The system is reported to provide fast, reliable switching. It is remote-controllable. The system contains no vacuum capacitors, and there are no metal-to-metal relay contacts in the RF path.

**A programmable synthesized signal generator**, the LSG-202, has been announced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY 11788. The LSG-202 covers the frequency range from 1 to



*Leader LSG-202 signal generator*

520 MHz in 100-Hz steps. Output level is calibrated in dB $\mu$  or dBm and is selectable from -20 to 126 dB $\mu$  (-133 to +13 dBm) with 0.1 dB resolution.

**A new range of Band III television transmitters** has been announced by Marconi Communication Systems, Marconi House, New St., Chelmsford, Essex CM1 1PL, England. Known as the 7500 series, the transmitters have output powers of between 1 and 25 kW. The transmitters have been designed for operational simplicity, reliability, and ease of maintenance.

**A range of TVRO satellite earth terminals** has been announced by GEC McMichael Ltd., Sefton Park, Bells Hill, Stoke Poges, Slough SL2 4HD, England. The new television receive-only terminals provide broadcast-quality reception of television programs from geostationary satellites

with Ku-band transponders. These terminals cover the frequency band 10.95 to 11.7 GHz. They comprise a dish antenna and mount, a low noise converter, and a satellite receiver. Antenna diameters range from 1.5 to 4.5 m; the receiver allows any one of 50 preset channels to be selected.



*Elector PV 2000 video projector*

**The PV 2000 video projector** has been announced by Elector USA, 5128 Calle del Sol, Santa Clara, CA 95054. The projector provides an 8-ft diagonal picture on a wall, screen, or any flat surface. It is equipped with an NTSC comb filter. Features include built-in detail-enhancer circuitry. Cathode ray tubes with optically coupled high-resolution lenses provide high light output and independent center and edge focus adjustment.

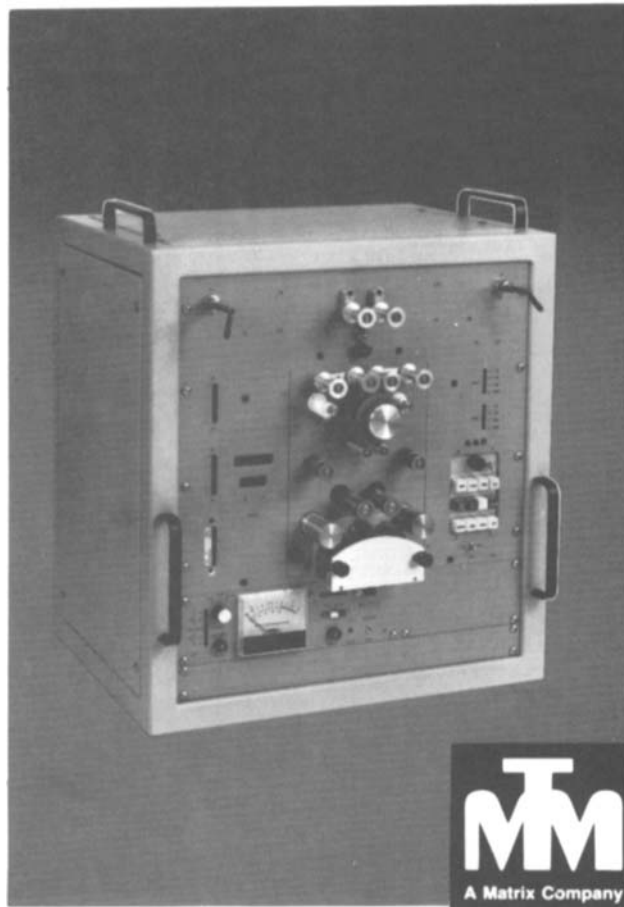
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*Radmar rechargeable 12-V power pack*

Two rechargeable battery power packs have been announced by Radmar, Inc., P.O. Box 425, Northbrook, IL 60065. Model 1250 is designed for use where recharging from 110/120-V 50/60 Hz electricity, and Model 1250-X for recharging from 220/240-V 50/60 Hz power. The two power packs are 12-V units, each having a capacity of 9 A-hr.



*Christie Electric CASP battery charger*

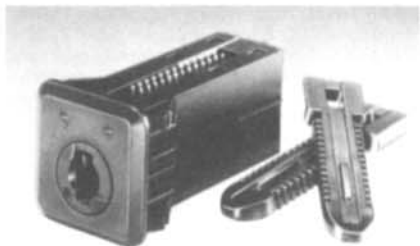
The CASP battery charger has been announced by Christie Electric Corp., 20665 Manhattan Pl., Torrance, CA 90501. CASP is described as a battery charger, analyzer, sequencer, and power supply, all in one. It can process automatically — charge, analyze, or recondition — up to six intermixed batteries unattended. The batteries can be of different voltage capacities, or even different types, such as sealed or vented ni-cads, any type of lead-acid, silver-zinc, or rechargeable lithium batteries. An LCD screen gives diagnostic information on each battery. It can operate from any ac power supply, even 400 Hz.



*Amperex NXA1020 frame transfer sensor*

Two solid-state CCD frame transfer image sensors for use in TV cameras have been announced by Amperex Electronic Corp., Slatersville, RI 02876. Model NXA1010 for monochrome, and model NXA1020 for color applications are said to have superior resolution and noise rejection char-

acteristics. The sensors can be used in all types of 625-line CCIR/PAL systems and 525-line NTSC. Applications include ENG cameras, surveillance, quality control, and electronic still and consumer video photography. High resolution is achieved through the use of 604 equally spaced pixels per line. Horizontal resolution is >400 lines in black-and-white and 3-chip color cameras, and >300 lines in single-chip color.



*Datakey electronic memory device*

**Data Key**, an electronic memory device, has been announced by Datakey, Inc., 12281 Nicollet Ave., Burnsville, MN 55337. Data Key is an off-line storage device, in the shape of a key. It houses either a 1400 or 16,000-bit semiconductor memory chip that can be used to store, retrieve, read, and update electronically recorded data. When designed into video production equipment, it can store preprogrammed editing control information, such as digital special effects, switcher routines, editing lists, and equipment setup parameters.



*PAG Solar Pagpanel-90*

**The Pagpanel-90**, a solar charging system for ENG applications, has been announced by PAG Ltd., 565 Kingston Rd., London SW20, England. The device is designed for use on most types of high-band and low-band portable recorders. The Pagpanel is fitted on the side of the recorder, and the 6-V, 500-mA module incorporates a solid-state inverter. It can charge a 12-V battery at up to 200 mA. A charging meter indicates the panel output. The panel can produce a useful charging current whenever the recorder is in daylight, even under a gray, overcast sky.

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