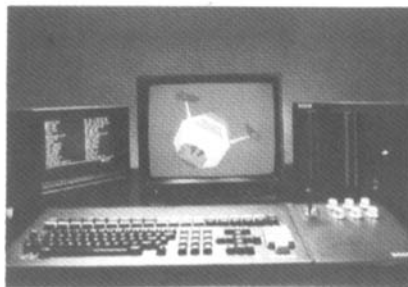


New Products



Ampex Zeus 1 video processor

The Zeus 1 video processor for broadcast and post-production applications has been introduced by Ampex Corp., 401 Broadway, Redwood City, CA 94063-3199. The Zeus 1 combines advanced time-base correction technologies with unique video-processing and variable-motion capabilities. This fully digital processing system expands and compresses broadcast material without visible image degradation. Bad-color-frame edit processing, full framestore capability, enhanced dropout replacement, improved SNR, and switchable formats are some of the features combined in this compact unit.



Bosch FSG-4000 graphic animation system

The FSG-4000 graphic animation system has been developed by Robert Bosch Corp., P.O. Box 31816, Salt Lake City, UT 84131. For use by broadcasters, production and post-production facility technicians, and other audio/video producers, the FSG-4000 can manipulate 2 and 3-dimensional objects in 3-dimensional space. It is a polygon-based system, and its output is RGB video. The output is 525 or 625-line video with a horizontal resolution of 70 nsec. The system incorporates automatic anti-aliasing in the hardware on every pixel, bringing the effective resolution of the output to approximately

3000×2000 lines. In conjunction with the development of the FSG-4000, Bosch has added two major enhancements to existing software capabilities: a smooth shading editor and a tree grafting program.



Grass Valley TEN-XT 10x1 routing switcher

The TEN-XT 10x1 routing switcher, a version of the company's TEN-XL model, has been announced by Grass Valley Group Inc., P.O. Box 1114, Grass Valley, CA 95945. The TEN-XT has been packaged to fit into a 3-rack unit frame together with one Tektronix 1740 or 1750 (combination waveform/vector displays), a 528 waveform monitor, or 1420 vector display. The resulting monitoring stations put all controls at the user's fingertips.

The EQ-1076A-30 video equalizing amplifier has been announced by Dynair Electronics, Inc., 5275 Market St., San Diego, CA 92114. The 30-MHz amplifier provides compensation for loss of display resolution due to attenuation of coaxial cables. It is ideal for cabled high-resolution

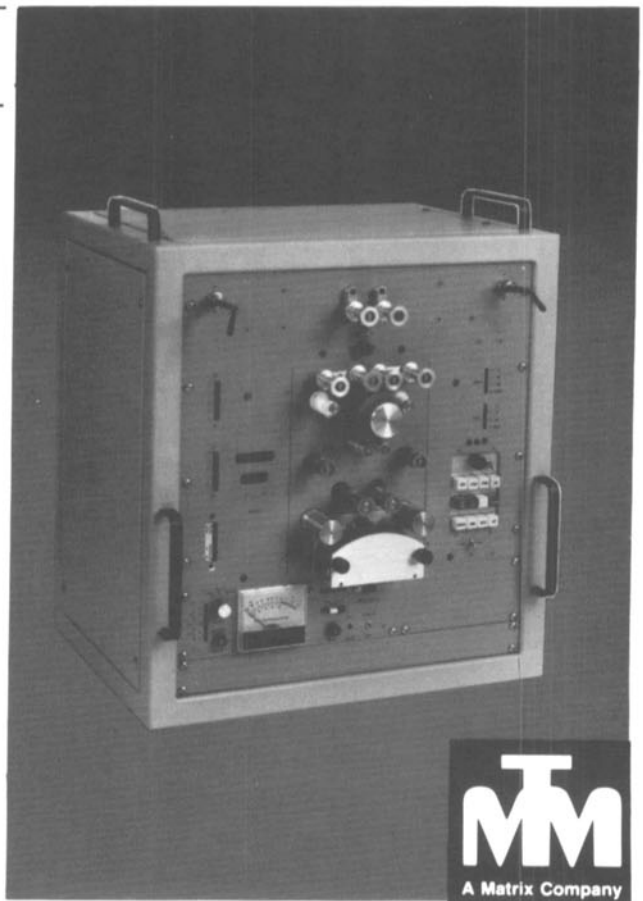
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Multi-Track Magnetics' 104B/DCS Gives You Full Size Performance In A Compact, Portable Recorder/Reproducer

This level of performance is usually only found in larger, more expensive units, but Multi-Track Magnetics' unique DC Servo Drive and compact Microprocessor control system makes it possible to pack big performance features into a small package. The 104B/DCS is equipped with MTM's #8500 Microprocessor controlled DC Servo Drive System and features Servo Controlled DC Torque Motors. The #8500 Microprocessor controlled DC Servo Drive features all electronics on one plug-in card, Built-in Pilot Tone Resolve for Recorders, 16/35mm film speeds, selectable 24/25/30 fps, Built-in Interlock (will interlock with 240HZ, 1200HZ or 2400HZ via Bi-Phase Clock), manually variable slew control and RS 232 Buss. The 104B/DCS is available in all standard film formats, and is compatible with the DataKode® System. The 104B/DCS is a 19" rack mountable unit, or is available with an optional Heliarc Welded aluminum enclosure with optional front cover. Other options available include clutched flywheels and film lifters for High Speed operation.

Multi-Track Magnetics, Inc.

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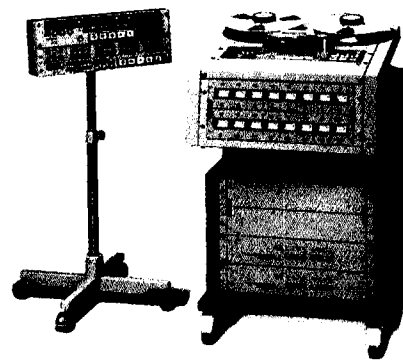
Quality reproduction starts with the heads, and TASCAM has three decades of design experience the MS-16's new micro-radii heads. They bring "head bumps" under control and ensure flat frequency response. And unlike most tape machines, the MS-16 record/sync and playback heads are identical in performance. Because sync response equals repro response on the MS-16, you can make critical EQ and processing decisions on overdubs or punch-ins without having to go back and listen a second time. You get what you want sooner and with fever headaches.

The MS-16 cuts down on the time you spend locking up with other audio and video machines as well. A 38-pin standard SMPTE/EBU interface affords speedy, single-cable connection with most popular synchronizers and editing systems. It's the easy, efficient way to get the most out of today's sophisticated synchronization equipment. The MS-16's new Omega Drive transport is tough enough to stand up to long days of constant shuttling... while handling tapes with the kid-glove kindness they deserve.

Record/Function switches for each track allow effortless, one-button punch-ins. Input Enable allows instant talkback during rewinds, fast forwards and cue searches. These features speed you through sessions and let you concentrate on the project at hand... not on your tape machine.

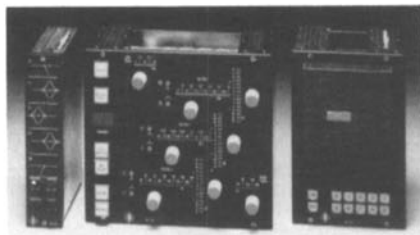
Take a closer look at the MS-16. See your TASCAM dealer for a demo or write us for more information at 7733 Telegraph Road, Montebello, CA 90640.

THE TASCAM MS-16 SIXTEEN TRACK



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systems, such as computer-generated raster-scan video applications. Monochrome and color (encoded or *RGB*) systems can be assembled; these systems can make use of the available 22 dB at 30 MHz adjustable equalization which accommodates a wide range of 75 and 124-ohm cable types and lengths.



Neumann AME 591 equalizer system

The Neumann AME 591 fully automated equalizer system for multi-channel recording has been introduced by Gotham Audio Corp., 741 Washington St., New York, NY 10014. The AME 591 is an analog system for consoles or stand-alone use. It provides up to 64 audio channels utilizing digital control for all equalizer parameters. Micro-cassette data storage allows 10 banks of equalizer settings to be recalled instantaneously from RAM during mixdown. The BE 591 operating panel provides a central control center for the W 591 individual channel equalizers, each

with LED indication of the basic settings. Applications for the system include multi-channel music mixdown, film scoring, sound reinforcement, sweetening, and live and recorded television production.



Hewlett-Packard HP 51810S measurement system

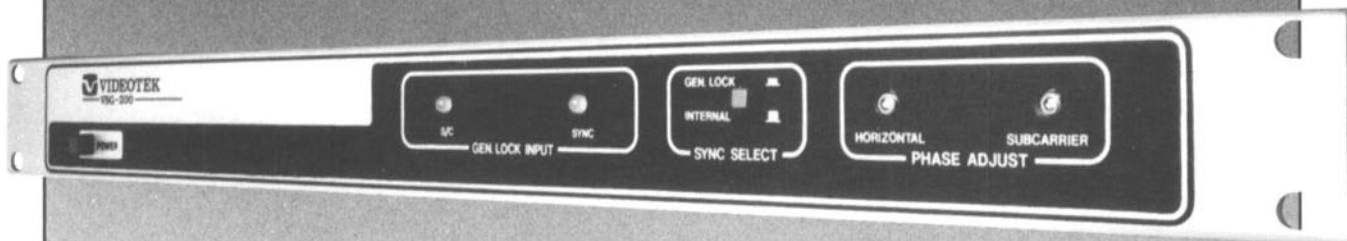
The HP 51810S measurement system, which offers video-product manufacturers an automatic production-test solution has been announced by Hewlett-Packard Co., 1820 Embarcadero Rd., Palo Alto, CA 94304. The system automatically measures over 60 parameters on NTSC baseband video signals at typical produc-

tion-test throughputs of up to 250 products/hour. It is computer-based with both HP-IB and RS-232-C interfacing abilities. At the heart of the system is the waveform recorder, which captures and digitizes the video signal of interest from the device under test. The system extracts gain, phase, timing, noise, and distortion parameters from the digitized waveform, compares them to preset limits, and stores them for later analysis. Other applications include quality assurance, broadcasting, and research and development.

The ENC-VI *RGB* to NTSC or PAL color encoder has been introduced by Lyon Lamb Video Animation Systems, Inc., 4531 Empire Ave., Burbank, CA 91505. The ENC-VI converts *RGB* signals to RS-170A standard composite video while providing improved image quality. Features include an internal sync generator, black burst generator, color bar, and standard outposts. The encoder accepts separate external sync or sync on any *R*, *G*, or *B* channel.

A high-resolution color monitor and an automatic monitor setup have been announced by Sony Broadcast Products Co., Sony Dr., Park Ridge, NJ 07656. The BVM-8021 8-in. color monitor features a black-face, high-resolution Sony Trinitron® CRT with fine pitch of 0.25 mm and

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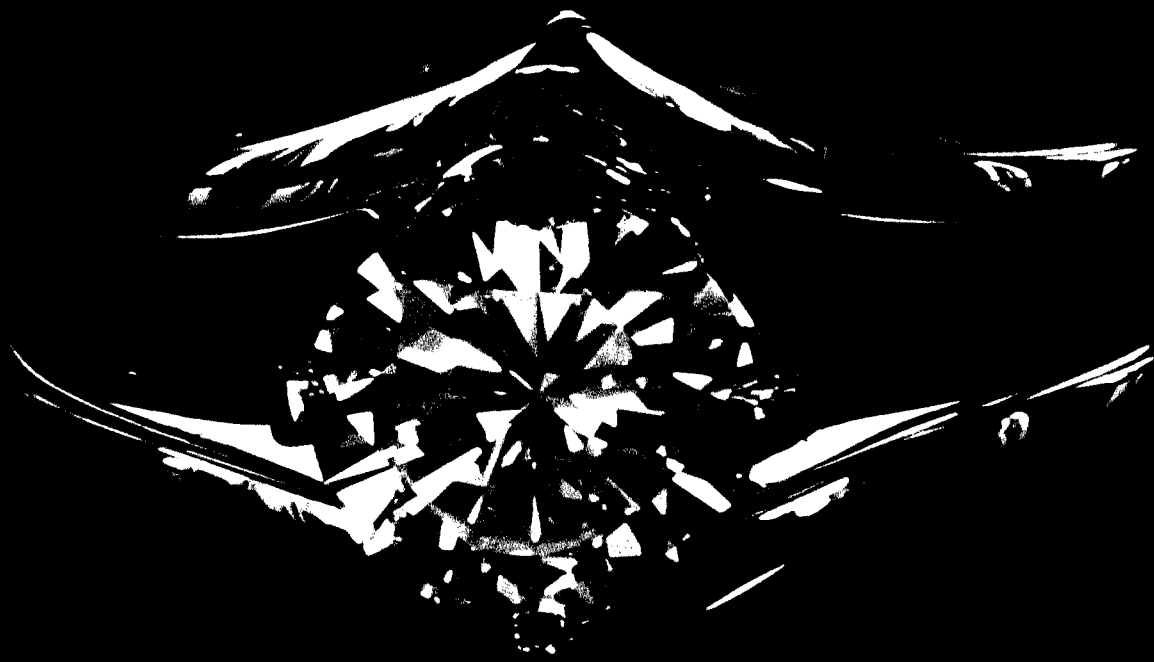


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Sony BVM-8021 color monitor

luminance resolution of 400 TV lines. The black face permits high-contrast resolution, even under ambient daylight conditions. The monitor can be operated on two Sony NP-1 batteries, a plug-in Sony BP-90 battery, or standard ac current.

The automatic monitor setup calibrates white balance, black level, saturation, and hue in less than 90 sec at the push of a few buttons. This time-management device has been designed as a retrofit for any of Sony's BVM-1900 color monitors. It features a suction probe that adheres to the CRT face. Output from the probe is fed into special PC board circuitry custom-installed in the monitor.

Viditext II, an addition to its product line of Vidifont® character generators, has been introduced by Thomson-CSF Broad-

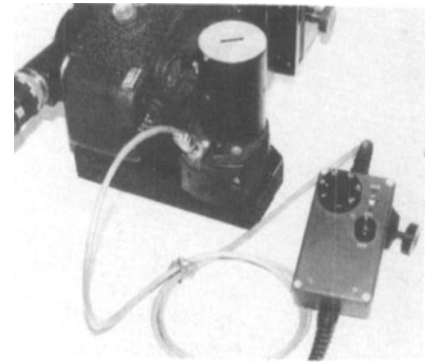


Thomson-CSF Viditext II character generator

cast, Inc., 37 Brownhouse Rd., Stamford, CT 06902. Viditext II has many of the basic features of the higher-end Vidifont Graphics V®, with optional features such as animation, time sequential overlays, Vidiclock®, and the playback sequence controller. Viditext II has access to Vidifont's complete font library of 100 faces, including creative services for custom graphics and logos. The compact character generator offers corporate, educational, and commercial users conveniently grouped function, editing, and operational keys.

The ASTON 4 video character generator has been announced by Aston Electronic Designs, Inc., 531 N. Murlen Rd. E., Olathe, KS 66062. Features include a

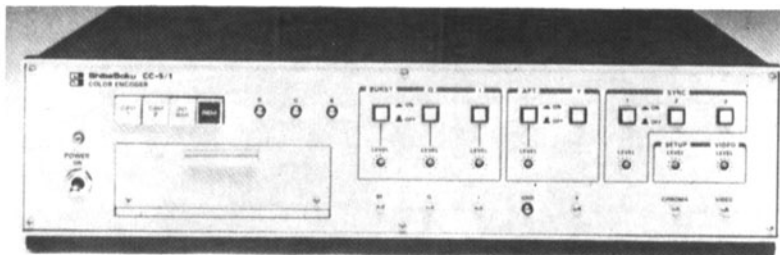
multi-plane display, 4096-color palette, multi-colored logos, diagonal writing, and total freedom for the positioning of text. The ASTON 4 offers effective resolution of 10 nsec, and comes with five typeface masters, a disk management system, and a dual-channel system.



Whitehouse WAVSPEED control

The WAVSPEED variable speed control has been announced by Whitehouse Audio Visual, 2037 Granville Ave., Suite B, Los Angeles, CA 90025. The control is for the CRA-4, CRA-6, and CRA-6A crystal motors used in Arri 2C cameras. WAVSPEED allows an operator to vary motor speed from 8 to 48 frames/sec, eliminating the need to change motors to create effects. The control box, in line with the CRA motor power cable, features a direct ratio variable-speed control pot. The operator can switch from crystal to variable speed mode.

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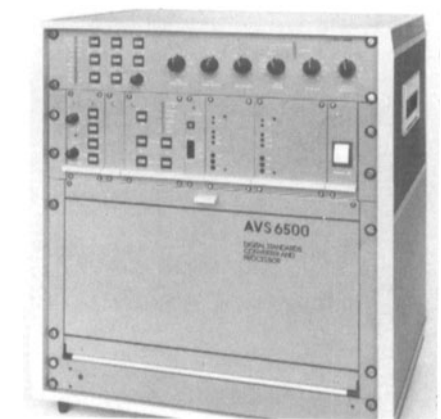
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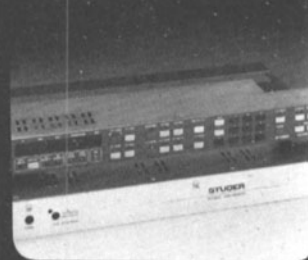


Avesco AVS 6500 converter/processor

The AVS 6500 television standards converter and signal processor has been announced by Video Components, Inc., 7 Tallman St., Spring Valley, NY 10977. The model incorporates genlock, SECAM input, RGB output, and multi-grab facilities. The AVS 6500 features detail enhancement, chroma retiming, noise reduction, and freeze frame.

The VBA-1 Beta format recorder adapter has been placed on the market by Ikegami Electronics (U.S.A.), Inc., 37 Brook Ave., Maywood, NJ 07607. The VBA-1, which

Studer Audio for Film and Video



If you need audio recorders for film or video production, look to Studer of Switzerland. No other manufacturer can offer such a comprehensive line, with more than two dozen standard versions available based on four different transport designs. In addition, special versions may be ordered to fulfill virtually any requirement.

Studer for Film Production. For film audio applications, Studer offers a wide variety of recorders with pilot-tone and resolver capabilities. Standard versions include mono audio with pilot-tone (Neopilot® system) or stereo with FM pilot-tone, either with or without resolver modules. Systems are available in 1/4" or 1/2" tape formats, and with any combination of audio/pilot-tone track configurations currently in world use.

Both mono and stereo pilot systems – with record and playback capability – may now be incorporated in the new microprocessor-controlled A810 transport. Various other pilot-tone and resolver combinations are available with the Studer B67 and A80 transports. The fully modular design of all

Studer recorders allows easy modification for highly specialized applications.

Studer for Video Production. For years Studer multitrack recorders have been the overwhelming choice of the world's foremost music recording studios. Today, as sound quality becomes increasingly important in video production, more and more top video houses are turning to Studer.

Studer multi-track recorders are available in 4, 8, 16, and 24 track configurations. In demanding video post-production applications, the Studer A800 provides unsurpassed speed and versatility. What's more, the A800 is Swiss engineered for total reliability – and that means greater cost-effectiveness over the long run.

Studer's new video layback recorder, the A80VU-3-LB, is the first and only of its kind to handle both B & C format 1" video tapes. Studer's smooth, positive tape handling means you'll take no chances with your valuable video masters.

For stereo audio-for-video applications, Studer offers two recorders

designed from the outset to work with center-track SMPTE time code: the compact A810 and the new, ultra-sophisticated A820. Both recorders are Nagra compatible, and the unique time code system pioneered by Studer – utilizing two separate code heads with a microprocessor delay for offset compensation – remains the most elegant and flexible currently available.

In Sync with Studer. To tie it all together, Studer offers the TLS4000 universal modular resolver/synchronizer. More than just a SMPTE code synchronizer, the TLS4000 interlocks a wide range of audio, video and film equipment. For film applications it features resolver modes with programmable pilot reference frequencies.

Improve Your Image with Better Audio. For more information on Studer products for video and film production, please write or call: Studer Revox America, 1425 Elm Hill Pike, Nashville, TN 37210; (615) 254-5651.

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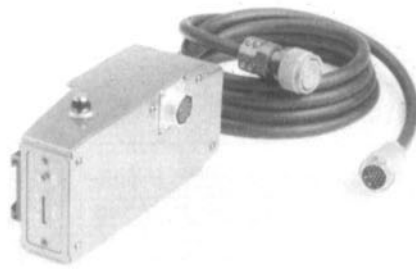


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Ikegami VBA-1 recorder adapter

can be used with the company's HL-79E ENG/EFP camera, consists of a special cable to the VTR connector. It will satisfy production needs that require Beta recording and editing.

The first stereo reference decoder (SRD) for multi-channel television sound has been introduced by Modulation Sciences, 115 Myrtle Ave., Brooklyn, NY 11201. The SRD "closes the loop" on MTS stereo setup, calibration, and off-air monitoring. The decoder enables the broadcaster to accurately calibrate his TV stereo generators to BTSC standards. The SRD permits fast, easy setup. It has been designed to work with the new MTS-modified Tektronix 1450 wideband demodulator and the Hewlett-Packard 8901A.

The Dominator multi-band FM audio processor has been introduced by Aphex Systems, Ltd., 13340 Saticoy St., No. Hollywood, CA 91605. The processor features program-controlled tri-band compressors that make compression "invisible" at all times. The Aphex MTH401 IC is used in the stereo generator to simplify and improve its circuitry. Other features include full function LED displays, modular construction, and a rack package height of 7 in.

The PAC-10/PAC-12 subcarrier modulator/demodulator has been introduced by M/A-COM MAC, Inc., 63 Third Ave., Burlington, MA 01803. Designed to complement the company's line of remodulating and heterodyne fixed-link microwave equipment, the units can fit up to four channels in one rack space. They are available in any of the standard domestic or international frequencies. The differential phase and gain performance of the PAC-10/PAC-12 system can accommodate individual left and right stereo STL transmissions.

Two Hahnel portable video lights that provide a high-power light source in a flexible, compact, lightweight package have been announced by Argraph Corp., 111 Asia Pl., Carlstadt, NJ 07072. Models CHN710 and CHN715 provide 1000 and 2000 W, respectively, of quartz-halogen light, operating on 110-V ac current. Four



Hahnel portable video light

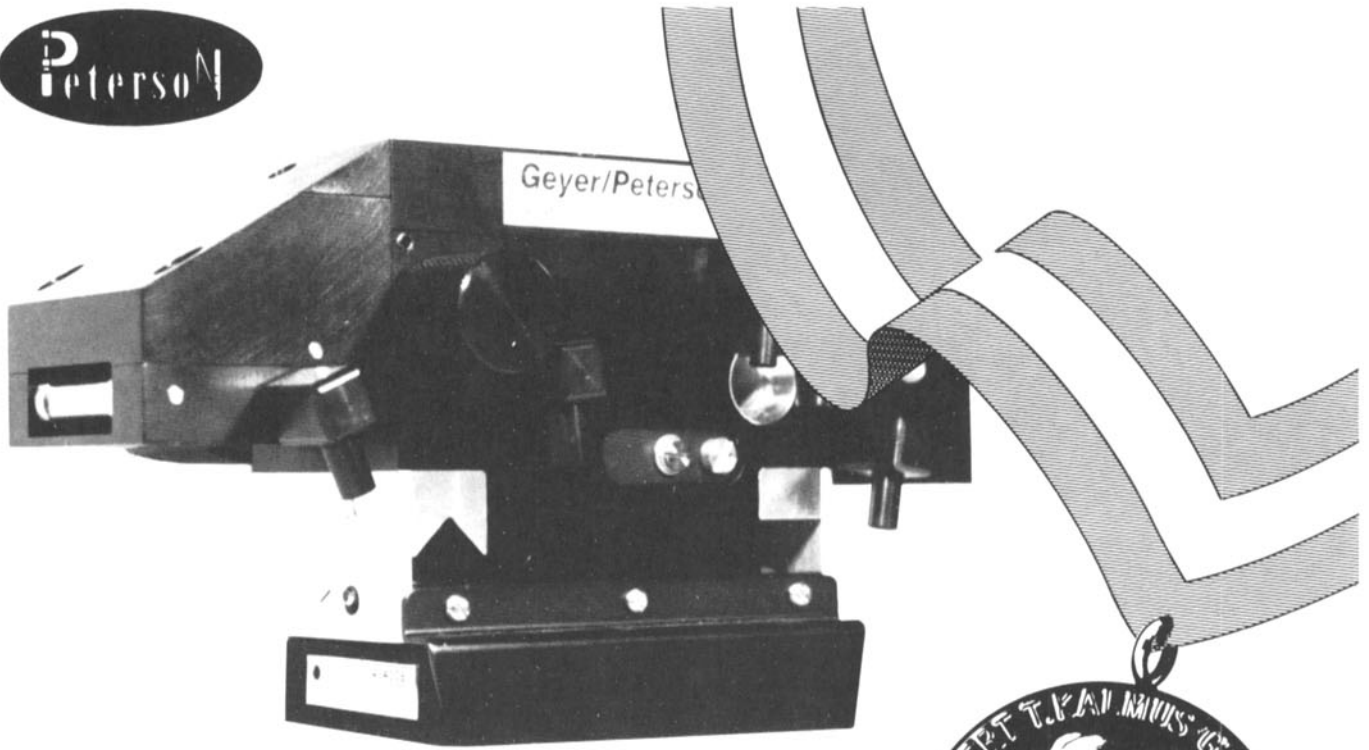
rectangular barndoors and a cooling fan are built in. Safety features include heat-resistant lamp shields and a 3-wire grounded plug. The lights can be used in the studio or on location on video or movie cameras, light stands, tripods, or wall/table mounts.



Strand Lighting yoke for 600-W Pulsar

A new yoke design for its Quartzcolor 600-W Pulsar has been announced by Strand Lighting, Inc., P.O. Box 9004, Rancho Dominguez, CA 90224. The molded fiberglass yoke offers greater flexibility in mounting and improved ventilation, and is consistent with the Pulsar's lightweight fiberglass housing construction.

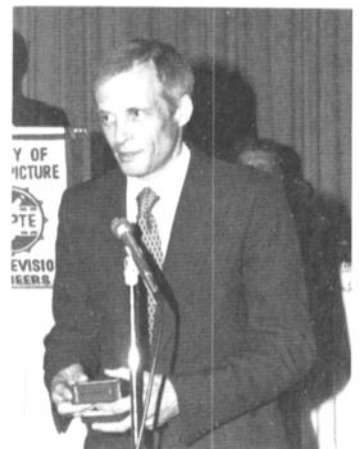
The 3KVA MinTaur™ uninterruptible power system has been announced by Nova Electric Manufacturing Co., 263 Hillside Ave., Nutley, NJ 07110. Designed for computers, telecommunications equipment, and process control systems, the MinTaur is equipped with an internal solid-state one-quarter cycle



GO WITH A WINNER

November 1984, S.M.P.T.E. Conference, Christoph Geyer, Technical Director of Geyer Werke GmbH, received the Herbert T. Kalmus Gold Medal Award in recognition of his work in the design, engineering, construction and application of total immersion wet printing gates and the unique total immersion wet gate system for the Rank Cintel Mark III Telecine and the Marconi B3410 Telecine.

Peterson Enterprises Inc. manufactures and adds their design to the Geyer/Peterson Video Immersion System for the Rank Cintel Telecine. The latest design of both 16mm and 35mm Full Immersion Wet Gates requires a simple action when switching from wet to dry transferring and vice versa. This feature offers the distinct advantage of using one head for both wet and dry transfers, and has the cost-saving added benefit that existing Rank dry heads can be converted for this purpose. The new system permits high speed dry shuttling at 10 x speed and wet shuttling at 3 x speed in both forward and reverse film travel.



The Herbert T. Kalmus Gold Medal Award presented to Christoph Geyer

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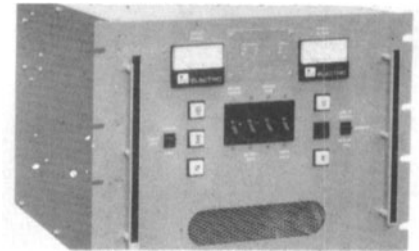
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A series of improvements in its Tri-Analyzer VTR battery analyzing device has been announced by Alexander Manufacturing Co., Box 1645, Mason City, IA 50401. The updated analyzer has a switching system that results in a savings in weight and a reduction in heat. The microprocessor has been given triple "spike" protection and automatic reset in the event a surge does get through. The Tri-Analyzer determines the remaining capacity in a variety of rechargeable nickel-cadmium VTR batteries. The process,

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Technical Research and Development Division

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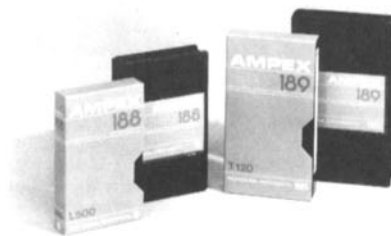


Alexander TA-3877-II battery analyzing device

which also dememorizes and charges the cells, is completely automatic and needs no monitoring. At the end of the process, remaining capacity is displayed on the LED readout.

Two 12-V power belts, the Olympic L-13 (13 Ah) and Olympic L-20 (20 Ah), have been introduced by Cool-Lux Lighting Industries, Inc., 5723 Auckland Ave., No. Hollywood, CA 91601. Panasonic "starved electrolyte" deep discharge cells, which power both belts, provide significantly longer running time per rated amp-hour than cells previously available. The belts are lighter than existing 12 and 17-Ah belts. Complementing the batteries are solid-state voltage monitoring and built-in charger.

Back-coated Ampex 188 Beta and 189 VHS format videotapes have been introduced by Ampex Corp., 401 Broadway,



Ampex 188 and 189 1/2-in. videocassettes

Redwood City, CA 94063. Both tapes feature a high coercivity, cobalt-doped oxide-particle formulation, and a tough binder system. The tapes have a high-quality back coat, and feature improved dropout performance and a precision cassette mechanism of anti-static ABS plastic.



Winsted mobile equipment carts

Two new roll-up carts for studio or mobile use are available from The Winsted Corp., 9801 James Cir., Minneapolis, MN

55431. The G8706 mobile equipment cart is designed with two shelves and four removable 19 1/4-in. rack rails. The cart features a two-position bottom shelf that can be fixed at center height for compact electronics. It rolls on 3-in. casters, two of which lock. The 19 1/4-in. top rack on the G8708 mobile audio/test cart tilts 10° for operator comfort.



Kangaroo KVP-1 recorder case

The KVP-1 portable case for the Sony BVV-1 Beta format recorder has been announced by Kangaroo Video Products, Inc., 10845 Wheatlands Ave., Suite C, Santee, CA 92071. The KVP-1 accommodates either the VA-1 or VA-1V adapter, and includes an outboard pocket for the Sure FP-31 mixer or extra field tapes. An attached pocket holds tapes for either the Anton/Bauer or Sony BP-90 battery.



Film and Video Time Code Versatility With Digital Display



Post another advance in recording technology for Nagra! The new IV-S TC incorporates unique Time Code circuitry which permits Time Code record/playback (via switch selection) of the five film or video SMPTE/EBU standards. What's more, there's an eleven key, slide-out, mini key-

board to enter or read data and check system operation, plus a seven segment, eight digit LCD readout. Of course, the recording quality, the functionality, are what you've come to expect from Nagra...just this side of perfect. Send for specifications and details, you'll flip.

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