

New Products

Further information about these products can be obtained from the addresses given. As with technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

A multitrack disk-based digital recording/editing system has been launched by Otari Corp., 378 Vintage Park Dr., Foster City, CA 94404. The PD-464 is expandable from 4 to 64 tracks in 4-track increments. It utilizes a Mac-based user interface and offers a host of features addressing a variety of applications, including music recording, commercial production, and video/film post-production. Salient features on the lock-to-SMPTE, SCSI-compatible system include unlimited nondestructive editing (resolvable to within one sample) and unlimited cross fades across any type of edit, individual track slipping (forward/backward), and auto punch in/out. Cross-fade entries of any length can be assigned to within milliseconds across cuts, pastes, and spot erasures. The product supports all digital I/O standards and features oversampled analog

and digital I/Os. Series III operating software has significantly increased edit-speed capability.

The company has also developed an editing system for the initial stages of audio post-production. The **DE-24 Audio Editor** is a practical and efficient tool for assembling a 24-track dialogue-and-effects master from individual stem/sources originating from a variety of machines. The product's dedicated controller maintains remote operation of a Sony BVU master deck and two slaved Otari tape machines (one of which is an Otari MTR-90 24-track), allowing the operator fast and easy access to all system machine functions and controls, including the capture or entrance of time code addresses, recording arming/disarming of tracks, record protect of tracks, and bus assign to tracks.

The company also announced that the **MX-50 II tape machine** has been enhanced. New features include a built-in cue speaker with headphone amp, level control, and channel select switches, enabling the operator/editor to utilize the product as a completely self-contained unit.



JVC BR-S822U editing recorder

A comprehensive S-VHS editing recorder has been introduced by JVC Professional Products Div., 41 Slater Dr., Elmwood Park, NJ 07407. The BR-S822U features include a digital Y/C separator, luminance comb filter, dropout compensation circuit, and noise-reduction circuit. The circuits allow the product to maintain excellent picture quality, even after five generations of dubbing. The recorder is easily interfaced with other editing equipment through its nine-pin RS-422A serial remote control and inputs and outputs for composite and Y/C 358 signals. It is the first S-VHS editing recorder to accept both full-size and compact C cassettes without an adapter.

The company also unveiled the **KM-D600U**, a Y/C special effects generator with a dual-channel (field store) TBC that brings broadcast-level digital effects

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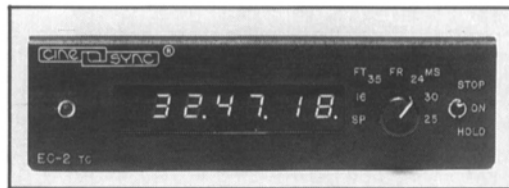
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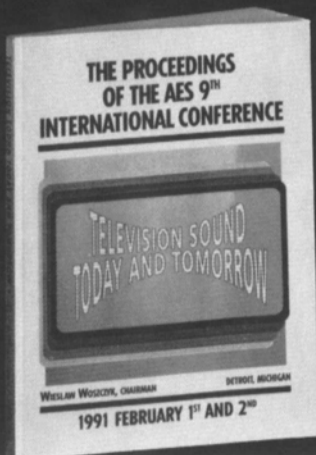


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and image handling capabilities to S-VHS editing. In addition to mix, nine wipe patterns, and key effects, the product features a number of high-quality digital effects such as freeze, strobe, mosaic, slide, paint, negative/positive image reversal, and continuous impression. It also has composite video inputs and outputs, making it possible to use ¼-in. equipment in the editing system.

The DDR-100 digital disk recorder has been launched by Digital F/X, Inc., 755 Ravendale Dr., Mountain View, CA 94043. It is fully D-1 compatible and it records and plays back 4:2:2 component digital video with no generational loss of image quality. The product offers 100 sec of recording capacity, enough to store a 30-sec commercial, three 7-sec station identifications, a 14-sec corporate open, and a 10-sec rotoscope project — with 25 sec to spare. In addition, the recorder allows a full 60-sec commercial to be composited as one continuous piece of video. The product interfaces and communicates with the Composium family via RS-422. Its video signal conforms to CCIR 601.

A video delay line that can be custom designed for the NewTek Video Toaster® and the Commodore Amiga® system is available from Allen Avionics, Inc., 224 E. Second St., Mineola, NY 11501. The Video Toaster has an internal 400+ -nsec delay that must be accounted for when integrating it into broadcast or post-production use. Video Toaster users must time their system to compensate for this by adding delay to the other video signals they intend to use in conjunction with the product. The TDL487 delay line provides a 360-nsec fixed delay and a 127-nsec switch variable delay to compensate for the Video Toaster board. With the delay line, all video signals can be easily timed to the Video Toaster video signal. In addition, the TDL487 can be used for timing inputs 2, 3, and 4 on the Video Toaster to input 1.

The first video board system to provide studio-quality video output in a complete array of digital and analog formats for Silicon Graphics workstations, has been announced by Tektronix, Inc., Video Products Operation, MS 60-876, P. O. Box 1000, Wilsonville, OR 97070. **The Avanzar Video System** generates true studio-quality output with real-time encoding and filtering. The product brings a variety of unique hardware and software features to the general-purpose workstation arena. Its six-unit video board uses proprietary signal processing technology to provide both real-time filtering and encoding and the highest signal quality available from a general-purpose workstation. Multiple output

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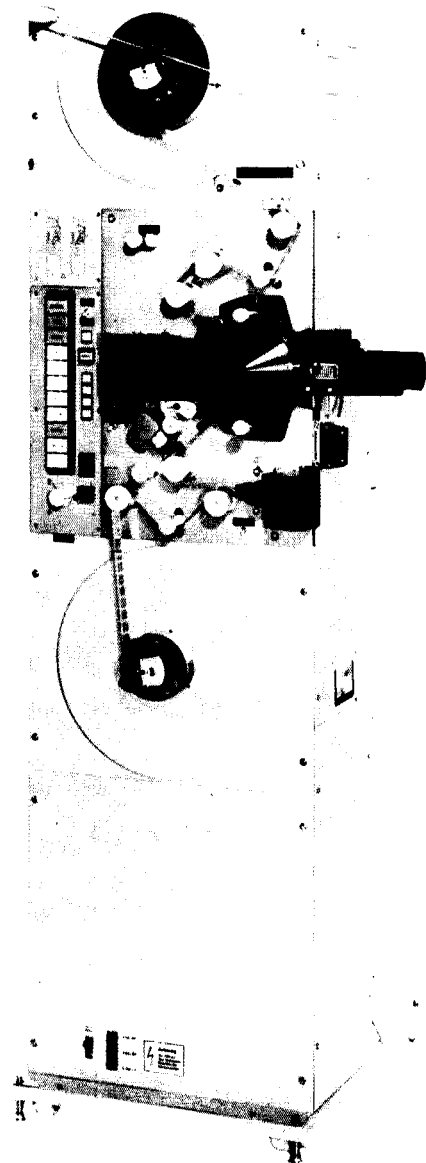
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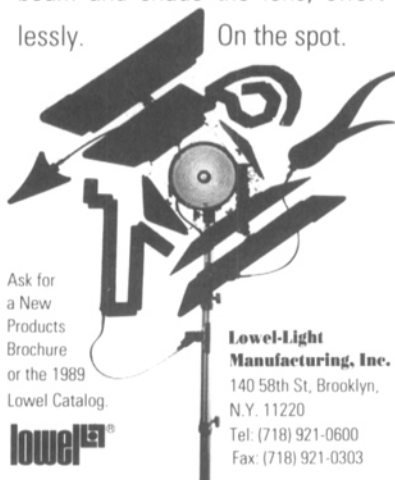
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formats are available simultaneously, enabling operators to view the animation on a TV monitor while recording it. ChromaMetrix™ lets animators verify that color saturation and luma transitions conform to broadcast standards, thus saving time and maximizing image quality.

A state-of-the-art digital effects system has been introduced by Ampex Corp., 401 Broadway, Redwood City, CA 94063-3199. The ADO® 500 system combines an exclusive 3-D page turn, warps, and image processing effects. Its features include True-Dimensional™ page turn; variable warps; image processing effects such as mosaics, posterization, and solarization; Digi-Matte™ key channel to create "flying" logos and other objects; and a 24-effect shot box that recalls and runs effects at the touch of a button. Options include a second channel and a Target Framestore, which is an internal graphics system that adds an array of paint, switcher, and animation features. The Target Framestore includes a combiner that allows the mixing of video and key signals on two-channel systems.

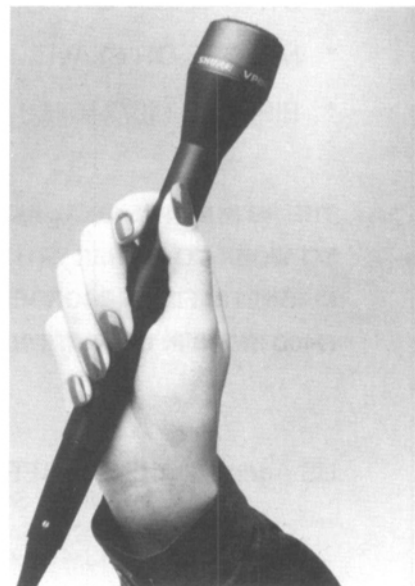
The VDC-200A videodisc controller has been unveiled by Museum Technology Source, Inc., P.O. Box 306, Winchester, MA 01890. The unit offers a cost-effective, long-term, low-maintenance way to control a videodisc player. Designed for public use in retail, corporate, or museum environments, it allows access to videodisc segments through up to four external pushbuttons. It can easily be programmed in the field from a personal computer, and sets up with telephone-type plugs instead of hard wiring. Pushing the buttons interrupts the continuous play of a logo or menu.

The Dyna-Comb digital PAL decoder, available from Microtime, 1280 Blue Hills Ave., Bloomfield, CT 06002, provides a transparent bridge between composite and component analog equipment. Composite PAL signals are cleanly separated with maximum bandwidth and minimum cross-component contamination. The product yields exceptional performance specifications with 10-bit A/D sampling of the composite input at 17.73 MHz (4× PAL subcarrier) and 12-bit internal processing. SNR is greater than 62 dB, luminance nonlinearity is less than 1%, and the K factor is less than 0.5%. The video content is continuously monitored on a pixel-by-pixel and line-by-line basis, and the results are used to select optimal digital filter characteristics for each picture element. The decoder is available with one, two, or three plug-in decoder cards installed in the two-rack-unit-high chassis.



Nucomm ENG truck control unit

PS Series ENG truck control units, manufactured by NuComm Inc., 101 Bilby Rd., Bldg. 2, Hackettstown, NJ 07840, are designed exclusively for ENG van or fixed rack-mount applications. They provide all the features necessary to power and control the company's PA Series mast-mount RF power amplifiers. The PS Series allows single or dual-band operation from a single controller. A rack-mountable slide-in drawer houses both the power supply and a PT3 portable transmitter. The entire unit measures only 19 in. wide by 3.5 in. high. Front-panel functions include an on/off switch, two-segment signal strength meter calibrated in watts, LEDs for reverse power indication, high/low power switch, final amplifier bypass switch, and polarization control for selection of horizontal, vertical, clockwise, or counterclockwise propagation. In multiband units, band selection is made from a front-panel switch with LED indication of band. Connection to the RF amplifier and antenna controller are by an easily accessible rear terminal strip. Models are available that operate either from AC or DC power.



Shure Brothers VP64 microphone

Two new products have been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60202-3696. **A portable automatic microphone mixer** is designed for use in a wide variety of multimicrophone applications. By keeping unused microphones turned down,

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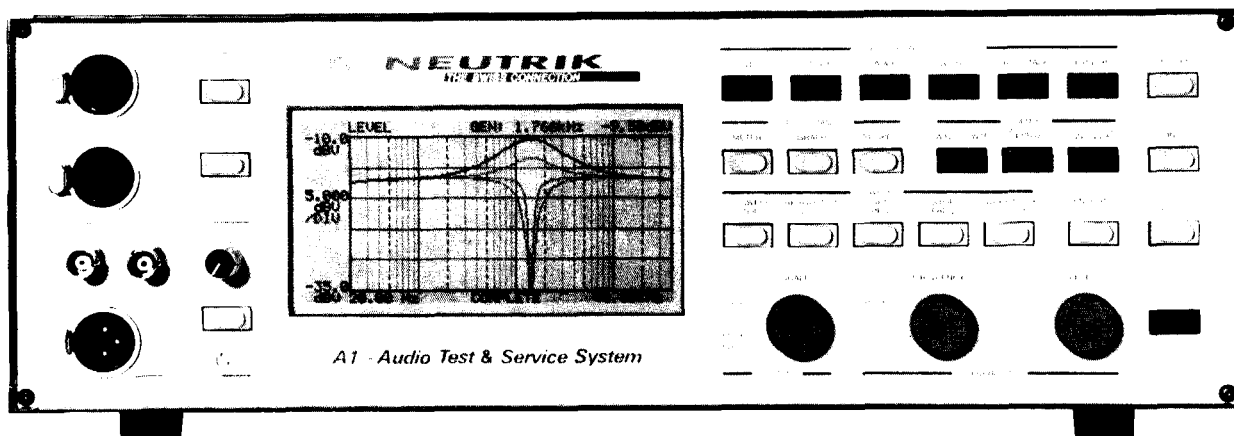
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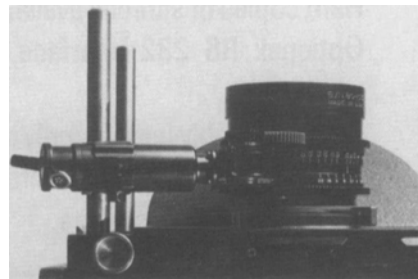
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Model FP410 dramatically improves audio quality and provides a seamless mix automatically. IntelliMix, the company's patented operation concept, is manifested in three key features of the automatic mixer circuitry: Noise-Adaptive Threshold activates microphones for speech but not for constant room noise; Max Bus Circuitry limits the number of activated microphones to one per talker; and Last Microphone Lock-On keeps the most recently activated microphone open until a newly activated microphone takes its place. Model FP410 has four transformer-balanced inputs that will accommodate a variety of microphone types.

VP64 omnidirectional handheld microphone is designed primarily for field interviewing. It incorporates features useful to ENG professionals, including sleek, contemporary styling for extended reach and attractive on-air appearance; a neodymium magnet for higher output; internal shock mounting; and extremely rugged construction to combat rough handling and environmental extremes. The product comes equipped with a windscreens and stand adapter.



Cinema Products lens drive motor

ZB lens drive motor, a new product by Cinema Products Corp., 3211 S. La Cienega Blvd., Los Angeles, CA 90016, provides smooth and dependable lens control with unprecedented system compatibility and minimum weight. The product is designed to assure maximum resolution between the lens and the motor's position-control potentiometer. A feedback potentiometer mounts directly onto the integral lens-drive gear to virtually eliminate backlash. The lens drive motor employs radial rather than axial motor orientation, which accommodates both multimotor arrangements for physically short lenses as well as lenses with control functions located too close to the camera front for conventional motors. The motor also provides high-output torque for cold or stiff lens operation and it is capable of utilizing the full output power of the CP Digital three-channel motor drive amplifier.

A **software driver** has been added to the A60 digital disk recorder, according to Abekas Video Systems, 101 Galveston

Dr., Redwood City, CA 94063. The software allows the product to interface with a new Exabyte tape drive, providing higher performance and greater storage capacity for animation and graphic images. The Exabyte drive can store up to 150 sec of computer animation or 4500 digital images on a single tape cassette, giving users abundant storage in a single portable media. The A60 also supports off-line storage with the Kennedy 9-track tape drive and the Gigatrend 4mm cassette tape drive. The software gives users greater machine flexibility, including improved wipe and text commands, which can be used to create slates.


In addition, the company has joined forces with Silicon Graphics, Inc., to include a **developer's toolkit** on Silicon Graphic workstations, allowing developers to interface directly with the Abekas A60 digital disk recorder via an SCSI port. The toolkit provides functions to help developers interface with the A60's SCSI port, enabling quicker data transfer. It also offers a library of source codes, including sample format-conversion programs, shell scripts for specific transfer applications, and an A60 control panel that allows users doing electronic graphics or computer animation to access and control the A60 image recorder without leaving their work areas.

The **MicroVAS animation controller** has been introduced by Lyon Lamb Video Animation Systems, Inc., 4531 Empire Ave., Burbank, CA 91505. The product is designed to perform single or sequential-frame recording and frame grabbing operations from computer graphics systems to standard video recorders. It is supported by all major animation software packages running on every level of computer platform. All recording, grabbing, search, and other recorder functions are performed and displayed by the computer. The product's features include field accurate editing; the company's proprietary Vertical Interval Frame Code (VIFC™) generator/reader, which ensures perfect accuracy and eliminates the need for expensive time code equipment in the VTR; and compatibility with S-VHS, U-matic, Betacam, M-II, 1-in. Type-C, and recordable laserdisk formats.

TCG-1001 time code reader/generator/character inserter is available from CV Technologies, 148 Veterans Dr., Northvale, NJ 07647. The product offers jam sync capability, NTSC and PAL operation, battery backup of user setups, RS-232C and front-panel control of all operational modes, and drop/nondrop frame operation (NTSC). It is a fully programmable, standalone serial device that can be controlled by a personal computer. A complete protocol document

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for programmers and a diagnostic utility is included. The lightweight, standalone product is housed in an enclosure approximately the size of a videotape cassette.

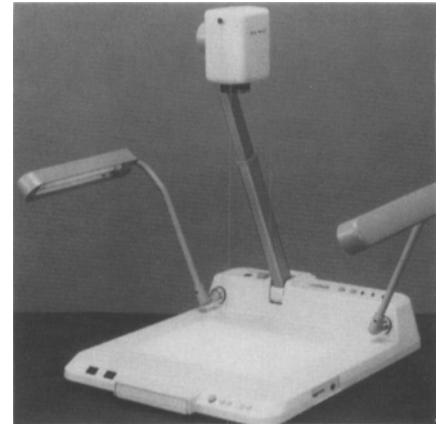
The MicroNet 23 video communication system has been announced by Microwave Networks, Inc., 10795 Rockley Rd., Houston, TX 77099. It is a 23-GHz microwave radio for point-to-point video or video and T1 transmission. A typical site consists of an indoor rack-mounted video interface, an outdoor pole-mounted RF unit, and an antenna. The radio can be simplex or duplex and is available in a nonprotected configuration, monitored hot-standby configuration, or a dual-channel configuration, which doubles the system capacity. All RF components are housed in one enclosure and operate over one antenna. The RF units and antennas mount independently and are connected with flexible waveguide, allowing various size antennas to be used. The standard offering is the MicroNet 2330 antenna system, which features a 30-in., category A, high-performance antenna.

The company has also unveiled the **MVR-100 microwave video radio**. It is packaged for use as a simplex single-channel transmitter and receiver operating in frequency bands from 1.7 to 13.25 GHz. Multichannel terminal and repeat-

er configurations can be made by stacking the basic single-channel elements. Hot-standby transmitter and hot-standby receiver applications can be configured by stacking the basic single-channel units and using the hot-standby switch and control shelf assembly. Various options are available, including 110 or 220-V AC power, 24 or 48-V DC battery power, integral subcarrier audio program channels (up to 4), and video clamping amplifiers. The AC power supply attaches to the rear of the subsystem without requiring additional rack space.

An enhanced version of the F-500 professional motion-picture film has been announced by Fuji Photo Film U.S.A., Inc., 555 Taxter Rd., Elmsford, NY 10523. The product boasts a grain that is 50% finer than its predecessor, resulting in unsurpassed granularity and improved color reproduction. It is manufactured especially for low-light, high-speed photography and delivers optimum results with zoom or telephoto lenses. It is available in 35mm in 200, 400, and 1000-ft rolls, and 16mm in 100, 200, and 400-ft rolls.

The EV-368 visual presenter has been unveiled by Elmo Manufacturing Corp., 70 New Hyde Park Rd., New Hyde Park,



Elmo EV-368 visual presenter

NY 11040. It incorporates a new high-resolution 1/2-in. CCD chip, which produces over 400+ TV lines (horizontal, composite video output). Product features include S-Video output; conveniently located front controls, which include power/manual focus, 8-1 power zoom, and auto iris with fine adjustment; and an 11.6x8.5-in. fluorescent light panel for transparencies built into its base, with a front-control select switch for overhead or base light operation. The unit can project hard copy, 3-D objects, and transparencies (color or black and white) on any video monitor video.

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