

New Products

The Amiga 4000 was announced by Commodore Business Machines, Inc., 1200 Wilson Dr., West Chester, PA 19380, (215) 431-9100; Fax: (215) 431-9156. The product is a powerful, fast system that features a Motorola® 68040 processor in combination with the company's AGA chip set, enabling users to display graphics in selectable resolutions from 320 X 200 to 1200 X 800 in up to 256,000 simultaneous colors from a palette of 16.8 million. The unit's base configuration features a 120-Mbyte hard drive, 6 Mbytes of memory, a dual-speed high-density floppy drive, and CrossDOS, which enables users to read and write MS-DOS-formatted floppy and hard drives. The hardware features are driven by AmigaDOS™ 3.0, the newest version of the company's multitasking operating system.

The Amiga 1200 can also display 256,000 simultaneous colors from a palette of 16.8 million colors. The system includes AmigaDOS Release 3 and CrossDOS. The high-speed, 32-bit unit comes standard with one 3.5-in. floppy drive, 2 Mbytes of chip RAM, and an internal IDE interface. The product has RGB digital and analog, color composite, and RF-modulated video outputs in multiple resolutions including NTSC and VGA. The unit also features full support for PCMCIA Standard 2.0 memory and I/O cards, with expansion capabilities up to 6 Mbytes.

Two optical disks, featuring one-of-a-kind animated 3-D digital-effect sequences, ready for on-line video mapping using a DVEator-equipped Prizm Video WorkStation, were launched by Pinnacle Systems, 870 W. Maude Ave., Sunnyvale, CA 94086, (408) 720-9660; Fax: (408) 720-9674. DVEator Animation Disks III and IV feature major new effects and are available in both NTSC and PAL. Among the Animation Disk III effects are robot, zipper, shattering screens, rotating slats and blinds, rotating picture frame, and advanced page peels and page tears. Sequences on Animation Disk IV include 30 advanced page rolls, page turn, and metamorphosis animations, each with 3-D highlights and shadows.

SuperWarp, from Abekas Video Systems, Inc., 101 Galveston Dr., Redwood City, CA 94063, (415) 369-5111; Fax: (415) 369-4777, is a set of warp shapes, including many different types of ripples, oil drops, and true spheres. Also, dual-image, dual-sided page turns are now possible in a single

pass. Multiple time-lines for a single effect provides the user with ultimate flexibility when building effects. Separating local picture manipulation parameters and global parameters offers much more control when programming effects.

A software update for the DP Series of digital video workstations was announced by Dynatech ColorGraphics Systems Inc., 6400 Enterprise Lane, Madison, WI 53719, (608) 274-5786; Fax: (608) 273-5686. The new release of software provides a wide range of new features and enhancements to the DP Series, including improved paint tools for creating and modifying mattes; enhancements to make the real-time chroma keying of the DP/MAX more powerful; and extensive additions to Workbench, the DP video clip editing, compositing, and special-effects software. This update also expands the DP's control of external devices with improvements to Ampex VPR3/6 and Sony DVR1000, and the addition of Abekas A66, Accom RTD4224, Sony DVR 2000/2100, Exabyte 8200/8500 tape drives, BTS DCR-500, larger external hard disks, and Abekas A57 DVE.

Modular Windows™ operating system Software Development Kit (SDK) was debuted by Microsoft Corp., One Microsoft Way, Redmond, WA 98052-6399, (206) 882-8080; Fax: (206) 9360-7329. The product, which is designed for devices that use televisions as a display, can be used to create CD-ROM applications and to begin prototyping and developing on-line applications. The SDK contains development and debugging tools, dynamic link libraries for the user-interface enhancements, hand controller input, and memory cards; and access to the Microsoft Video for Windows playback engine, on-line help, drivers, and fonts.

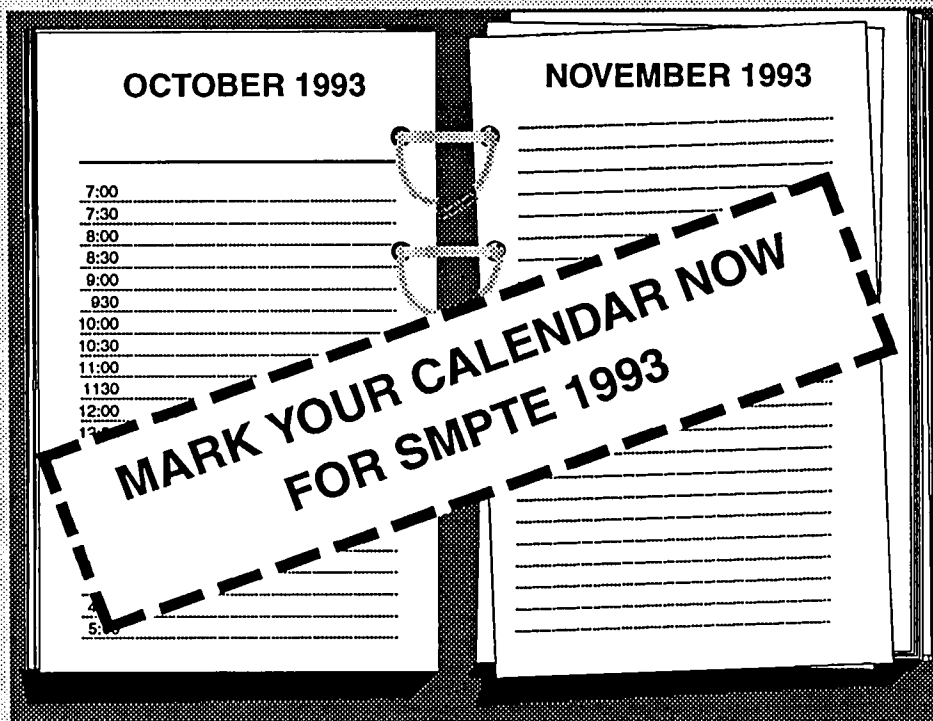
The RGB/Videolink® 1500A, a full-color video scan converter that adapts the output from virtually any computer to video, was unveiled by RGB Spectrum, 950 Marina Village Pkwy., Alameda, CA 94501, (510) 814-7000; Fax: (510) 814-7026. The product automatically synchronizes to any computer RGB signal with horizontal scan rates from 15.0 to 90.0 kHz interlaced or noninterlaced, including PCs, Mac IIs, and workstations from Sun, DEC, HP/Apollo, IBM, Silicon Graphics, and others. Product features include antialiasing, full 24-bit color processing, and real-time operation. Third-generation digital signal processing (DSP) circuitry

eliminates interlace flicker so that thin horizontal lines and menu boxes appear stable in the output image. Three levels of filtering ensure the best choice between image sharpness and flicker elimination. Video outputs include NTSC (or PAL) composite video, RGB (RS-170A or CCIR), and S-Video (Y/C).

Model 1000 component digital production switcher was announced by The Grass Valley Group, P.O. Box 1114, Grass Valley, CA 95945, (916) 478-3160. The product is a compact, one M/E switcher that boasts 10-bit signal processing, switchable 525/625-line operation, and serial or parallel I/O. The product incorporates the company's exclusive "key follow video" architecture. Each of the switcher's video inputs may have a companion key input, and each video path through the switcher has a parallel key path. A composited key signal is available along with the program output of the switcher. Complex composites can be built up by making multiple passes through the switcher, and the key information is preserved throughout. The Z-Key™ depth processing option uses depth information from products such as the Kaleidoscope™ digital effects or Graphics Factory™ integrated graphics platform. The depth signal is used to control the transparency of a layer of video on a pixel-by-pixel basis, making stunning visual effects possible.

Model 4000, a component digital production switcher, features full 10-bit processing and many innovative features. The unit incorporates the key follow video architecture; extremely complex composites can be built up by making multiple passes through the switcher, and the key information is preserved throughout. Lamina™ image layering makes it possible for the system to be operated in both layering mode and traditional mix/effects mode. Both modes can be selected individually and in combination, providing complete flexibility. A feature called "effects send" makes it possible to insert a digital video effects system into the middle of an M/E, allowing images to be transformed and brought back into the M/E for further processing, without tying up a second M/E. The switcher also includes an extensive wipe package. In addition to transitions, the wipe package provides powerful masking capabilities.

The DIE 125M digital image enhancer was introduced by Accom, Inc., 1490 O'Brien Dr., Menlo Park, CA 94025, (415) 328-3818; Fax: (415) 327-2511.



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Accom digital image enhancer

Designed for telecine and tape-to-tape operations, the product employs new median and recursive filters to tailor a powerful noise-reduction process to the specific job environment. The median filter adds reduction for impulse-type noise, while the company's proprietary motion-threshold control prevents the detail loss seen with other median filters. The recursive noise filter provides 15 dB of reduction in 1-dB steps. The enhancer introduces new capabilities in aperture compensation with selectable frequencies, fine control of compensation level, and adjustable two-dimensional softening.

Several new products were launched by Panasonic Broadcast & Television Systems Co., One Panasonic Way, Secaucus, NJ 07094. The AU-55H, a field portable recorder, embodies such features as four audio channels (two FM and two linear with Dolby-C®) and is capable of 16:9 wide aspect ratio in both recording and playback. The unit offers significantly reduced power consumption over earlier models and is optimized for portable recording, with features such as auto head cleaning for TC and CTL heads; ± 5 times normal search speeds, with picture; a Phantom MIC input/supply; and a record review function. The product includes an EnHanced Performance built-in TBC, a digital hour meter, and full four-field color framing control.

The AU-66H high-performance studio recorder/editor offers full-feature editing with a production-edit panel, and a number of other special features intended for high-quality studio editing applications, including noiseless still and slow-motion with autotracking, allowing quality special effects; a digital field-freeze function for noiseless stills; and a Variable Memory Editing (VME) feature that provides slow-motion player control. A special picture-in-picture function permits the use of a single monitor in a two-machine edit configuration or provides added editing convenience when matching scenes.

An expanded set of camera measurements for the VM700A increases to ten the functions of VM700A Option 21 Camera Measurements, it was announced

by Tektronix, Inc., Howard Vollum Industrial Park, P.O. Box 500, Beaverton, OR 97077-0001. Like their predecessors, the six new Option 21 measurements bring speed, accuracy, and ease to camera evaluation by automating aspects of the camera assessment process. All ten measurements are now available as Option 21 to the VM700A. Customers already using the four-measurement version of Option 21 can purchase the six new measurements as a field upgrade kit.

Option 1S, a serial digital input/output enhancement for the VS210 NTSC video synchronizer, can synchronize signals in the digital domain. The product allows timing and processing amplifier control of the serial digital signal. When installed, the VS210 synchronizer becomes the gateway for conversion from composite analog to composite digital and from serial composite digital to composite analog. The product also supports error detection and handling. Full-field and active picture error flags at the input are detected and reported either by status lights on the synchronizer panel or in message displays on a remote-control display (with the optional RS210 remote-control unit installed). At the serial digital output, new EDH full-field and active picture Cyclical Redundancy Codes (CRCs) are generated and inserted.

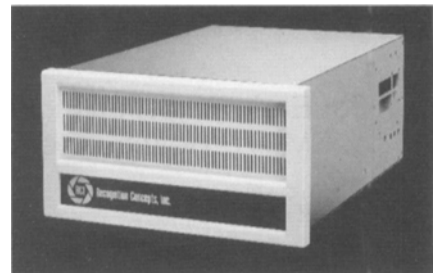
The company also introduced the Pathfinder NTSC signal generator and the ASG140 audio signal generator, and announced that the DAC422 component D/A converter is now available as Digital Component Option CD to three signal monitors.

Model 300-PC Data Acquisition Kit was unveiled by Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY 11788, (800) 645-5104. The product offers a total system solution for the uploading and downloading of waveforms and data between the memory card used with the Model 300 handheld DSO/DMM and a personal computer. The software enables computer control of stored waveforms. In the long word-length mode, waveforms can be expanded, scrolled through, and printed in a similar fashion as when operating the Model 300 in the DSO and logic scope modes. File

labels can be entered for each displayed screen of waveform data for identification.

PS Series ENG truck control units were announced by Nucomm, Inc., 101 Bilby Rd., Bldg. 2, Hackettstown, NJ 07840, (908) 852-3700; Fax: (908) 813-0399. The units are designed exclusively for ENG vans or fixed, rack-mounted applications and provide all the features necessary to power and control the company's PA Series master mount RF power amplifiers. The series allows single or dual-band operation from a single controller. A single, rack-mountable, slide-in drawer houses both the power supply and Nucomm PT3 portable transmitter. The entire unit measures only 19 in. wide by 3.5 in. high (two rack spaces).

RX3 Series portable ENG microwave receiver covers the frequency ranges of 2.0, 2.5, 6 to 7, and 12 to 13 GHz in a single unit. This unit features dual super-heterodyne conversion, synthesizer control, and dual-filter selectivity for high adjacent channel rejection. The product is housed in a small, rugged, weatherproof, cast-aluminum housing. The standard unit is equipped with one video plus two high-quality, field programmable audio subcarriers, a universal AC/DC power supply that operates on 100 to 260 VAC and 11 to 32 VDC, a highly accurate signal strength meter that reads in both digital and analog formats simultaneously, and an audio beeper that allows the operator to peak the receiver signal without looking at the meter.



RCI videodisc recorder

A series of real-time composite digital video storage products was unveiled by Recognition Concepts, Inc. (RCI), 341 Ski Way, P.O. Box 8510, Incline Village, NV 89450, (702) 831-0473; Fax: (702) 831-8035. The VDR 2000 Series provides from 4.3 to 125 min of uncompressed SMPTE 244M compliant storage and is available in one to four-channel versions. A two-channel version, the VDR 2010, can be economically upgraded by adding an additional video-format card to provide 4.3 min of CCIR 601/SMPTE 125M compliant component digital video storage. A single, software command will switch the disk between composite and component formats. The

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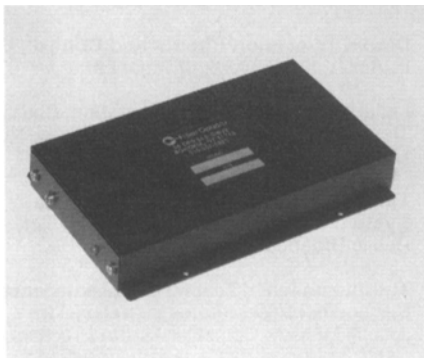
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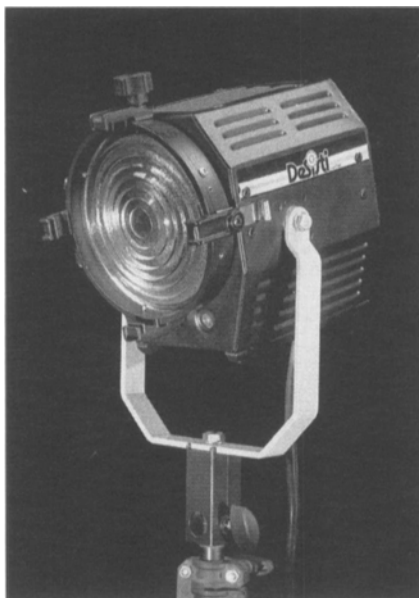
single and two-channel composite videodisc recorders and the component-channel upgrade are packaged in a compact 10.5-in. rack-mount chassis (6 rack units). Features include the support of nonlinear editing by providing true random access in real time without compression. The disk will seamlessly random access up to 512 in-and-out points as defined by an edit display list.



Fiber-Options Series 245B two-way video, audio, and data transmission system

A two-way video, audio, and data transmission system used to transmit multiple signals bidirectionally over a single fiber-optic cable was announced by Fiber-Options, Inc., 80 Orville Dr., Suite 102, Bohemia, NY 11716-2506, (800) 342-3748; Fax: (516) 567-8322. Series 245B can be used in a variety of applications ranging from master control, edit room, and camera remote-site operations. The system incorporates AGC circuitry, thus requiring no field adjustment or maintenance. On-board LEDs provide a visual check of signal presence; control-data signals can be in the form of RS-232, RS-422, TTL, Manchester, or contact closure.

The PRO-40 series of communications headsets, specifically designed for party-line and matrix intercom and announcer/sportscaster applications, was unveiled by Clear-Com Intercom Systems, 945 Camelia St., Berkeley, CA 94710, (510) 527-6666; Fax: (510) 527-6699. The headsets feature a combination of broadcast-quality audio in both the microphone and earphones, balanced microphone output, individual "split-ear" earphone wiring, left or right-ear mic boom operation, "mic off" switch in boom, noise-isolating earphones, complete field serviceability, exceptional comfort, and virtually indestructible construction. The headsets are available in a single muff, double muff, and double muff "split-ear" versions, and are compatible with all dynamic mic-based party-line and matrix intercoms, and sportscaster/commentator/announcer/conductor systems.



DeSisti Magis tungsten halogen, Fresnel spotlight

Two products were announced by Desmar Corp., 1109 Grand Ave., N. Bergen, NJ 07047, (201) 319-1100; Fax: (201) 319-1104. **The Cyclops Stand** rises to a height of over 12 ft and safely supports a load of 130 lb. A patented gear drive and locking mechanism allows for maximum height extension with maximum loads. The product will handle most of the new, large HMI and quartz lighting fixtures as well as heavy diffusion banks and concert speaker systems.

Magis tungsten halogen, Fresnel spotlight, which is manufactured by DeSisti, features a socket and optical system that allows the photographer the flexibility of using any of the interchangeable, single-ended bulbs in 300, 500, or 650-W outputs. Suitable to studio or location requirements, the 120mm lens and optical system are enclosed in a stainless-steel housing. The product features a very smooth spot-to-flood focusing system.

A hostile environment, steam-resistant fiber-optic cable is available from AT&T Network Cable Systems, 505 N. 51st Ave., Phoenix, AZ 85043, (800) 344-0223, ext. 2096. Able to withstand temperatures of up to 140° C with 100% relative humidity, the cable is well suited for a variety of hostile or hazardous environments, including those present in the petroleum and petrochemical industries and areas affected by corrosion, lightning, rodents, or shallow water. Its seam-welded, flexible, corrugated copper armor serves as a humidity barrier, and specialty thermoplastic sheathing material helps to ensure long-term, reliable performance in these harsh environments. The core cable is a dielectric cross-ply sheathed cable, which consists of a core tube that houses

fibers in up to 18 12-fiber bonded ribbons and a water-blocking compound.

A new portable "snake" system was launched by Telecast Fiber Systems, Inc., 102 Grove St., Worcester, MA 01605, (508) 754-4858; Fax: (508) 752-1520. The Viper™ speeds setup, reduces labor costs, improves signal performance, and extends the range of outside broadcasting. In linking the mobile production or satellite uplink vehicle to the camera locations, the system uses fiber-optic cable to reduce video and audio cable weight by over 90%, and extend distances to over 16,000 ft with no noise pick up and no equalization required. The product is designed for television broadcasters, cable TV operators, telephone companies, and other providers of mobile video/audio services such as electronic news gathering (ENG) and electronic field production (EFP), including sports telecasts. With the product, a single military-style fiber cable weighing less than 20 lb/1000 ft, replaces several copper coaxial and paired cables weighing over 300 lb/1000 ft. The system consists of two 6 X 9-in. card-modular units that are 12-VDC battery powered.

A line of composite audio/video cables was introduced by Nemal Electronics International, 12240 N.E. 14th Ave., N. Miami, FL 33161, (305) 899-0900; Fax: (305) 895-8178. The video cables consist of either a stranded RG59 or Nemal 1570 double-shielded precision coax. The audio cables consist of one or more individually shielded pairs of 22-AWG stranded tinned copper with drain wire. Standard cables in this series are available from stock and include both round and flat constructions.

A series of bag filter housings with non-metallic internals filters the highly aggressive chemicals found in the thin film rigid disk and printed circuit-board markets, as well as various applications in the electroplating, electronics, chemical, and petrochemical markets, it was announced by Pall Process Filtration Co., 2200 Northern Blvd., East Hills, NY 11548-1289, (800) 645-6532. Chemrist™ bag filter housings are highly chemical resistant and are able to withstand great operating pressures. The product is constructed of a fiberglass-reinforced plastic shell and is available with either polypropylene or PVDF internals. The housing accepts an industry standard size 7-in. diameter by 17-in. long or 7-in. diameter by 33-in. long Pall Profile® bag filter. The bag filter housings are suitable for corrosive applications at operating pressures up to 150 psi at 150°F for polypropylene or 190°F for PVDF internals and can handle flow rates up to 100 gpm. These bag filter housings are compatible with a wide range of chemicals.