

# New Products

A family of modular, resolution-independent workstations was launched by Eastman Kodak Co., 343 State St., Rochester, NY 14650-0519. The Cineon workstations are designed for full-film resolution image processing, compositing, and retouching. The products feature a true color fidelity management and display system, so that the color on the workstation monitor will match the color in the final screened film image. The platform is the Onyx scalable R4400-based graphics super computer from Silicon Graphics. Product features include the provision of a film-quality digital master, an industry standard file format, and an expandable, flexible computer platform that is configurable for many tasks.

## Circle No. 201

An on-line graphics composition system was introduced by Pinnacle Systems, Inc., 870 W. Maude Ave., Sunnyvale, CA 94086, (408) 720-9669; Fax: (408) 720-9674. Flash Grafix Composer allows users to create and alter graphic images on-line in seconds. The product includes an innovative FlashFile technology that offers still storage technology with access to 10,000 still images in less than a second and a picture-based user interface, full-featured paint for on-line touch-up and off-line graphic origination, True Type and Adobe font-compatible characters for titling and captioning, and quick 2-D and 3-D modeling and animation. The unit also features 4:2:2:4 processing. The system will network to con-

nect master control room and other station still locations for fast on-air updates. Graphics, titles, and overlaid stills are completed in seconds.

## Circle No. 202

A full desktop production system was unveiled by Truevision, 7430 Shadeland Stn., Indianapolis, IN 46256-3919, (317) 841-0332; Fax: (317) 576-7700. The VideoVGA Desktop Video Production System is an innovative hardware/software bundle that provides complete production capabilities to PC-based video producers. The product offers quality VGA-to-video graphics, with color resolutions up to 16 bits/pixel. Offering a variety of video production tools, the system combines the popular add-in board with four software programs: Animation Works Interactive and Video Director, from Gold Disk, Inc.; Curtain Call, from Zuma Group, Inc.; and the Digital Graphics Library, from Digital Graphics Library Inc.

The company also announced a pair of PC add-in boards. The products come complete with software, which brings advanced video signal monitoring, testing, and measurement to the VGA desktop. The VIDI/O Analyst Board and its companion board, the VIDI/O Pattern Generator, are ISA add-ins designed to monitor NTSC and PAL video signals. Bundled software supports both boards under Microsoft Windows 3.1. The Analyst Board combines the functions of a waveform monitor and vectorscope, and

in conjunction with the VGA adapter, the board uses a PC's VGA color monitor for all user controls and display of video signal data. The Pattern Generator board provides more than 20 video test/patterns.

## Circle No. 203

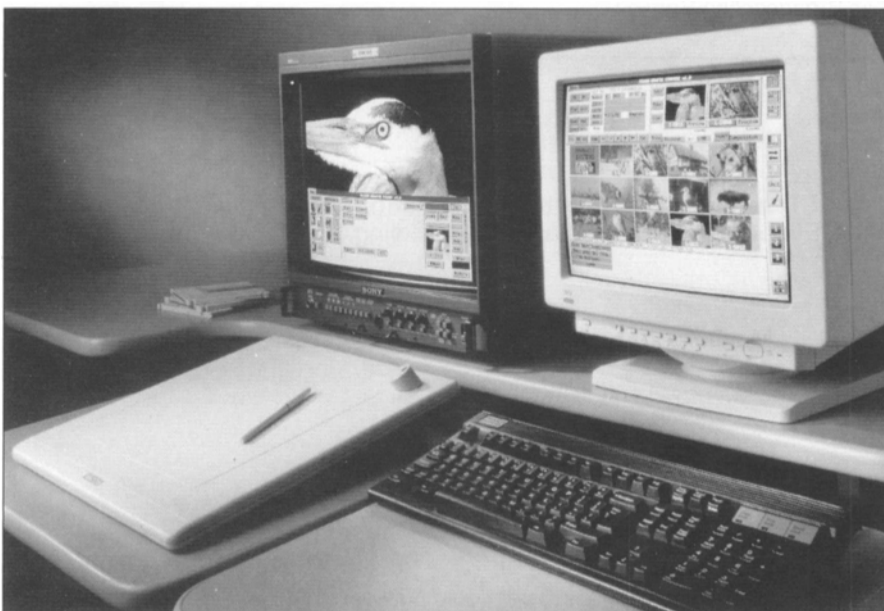
The Amiga 4000-030 was debuted by Commodore Business Machines, Inc., 1200 Wilson Dr., West Chester, PA 19380, (215) 431-9100; Fax: (215) 431-9465. The unit contains the company's AGA custom co-processor chip set, which enables users to display and animate graphics in multiple resolutions at up to 256,000 colors from a palette of 16.8 million. Powered by a 25-MHz Motorola® EC68030 processor, the system comes standard with 2 Mbytes of chip RAM, 2 Mbytes of fast RAM, and a 120-Mbyte IDE hard drive. The unit also ships with AmigaDOS™ Release 3, the latest version of Commodore's multitasking operating system. AmigaDOS Release 3 takes advantage of the new AGA features while maintaining backward compatibility with Amiga software not written specifically for AGA machines.

## Circle No. 204

A fast, desktop system for imaging and 3-D graphics rendering has been unveiled by Kubota Pacific Computer, Inc., 2630 Walsh Ave., Santa Clara, CA 95051-0905, (408) 727-8100; Fax: (408) 727-9301. The Kenai workstations, based on Digital Equipment Corp.'s Alpha AXP processor and Kubota's scalable Denali graphics subsystem, offer the power to draw more than a million triangles/sec. The workstation is the first to feature a desktop architecture that combines hardware assistance for both high-performance image processing and graphics rendering. Typical applications include mechanical engineering, medical and strategic imaging, computational fluid dynamics, and engineering and scientific visualization. The system uses a full 64-bit implementation of OSF/1 UNIX optimized for symmetric multiprocessor operation and is the only workstation that supports all major graphics standards including X11R5, PEX, GL4, and Open GL, PHIGS, and AVS.

## Circle No. 205

The Viewstore 5000 frame buffer system was introduced by Viewgraphics, Inc., 1340 Space Park Way, Mountain View, CA 94043, (415) 903-4900; Fax: (415) 969-6388. The system is designed for computer workstation users involved



Pinnacle Systems Flash Grafix Composer

in a wide variety of applications, such as film and video post-production, multimedia, virtual reality research, animation, satellite image analysis, geophysical mapping, prepress, and medical imaging, as well as HDTV and other video compression research work. The unit dramatically reduces the cost and increases system throughput for those who need interactive access and control of video image data. The system provides an aggregate memory capacity of up to 9 Gbytes, which is enough storage for 2 min of high-resolution video, or more than 8 min of traditional digital video, or up to 50K-by-50K pixel RGB true-color images. With the product, film animators can now view full motion animation sequences using high-resolution displays that approach actual film quality. Sequences can be played at any speed in forward and reverse, instantly stopped and started, indexed to any frame, and single stepped without the tape delays or artifacts.

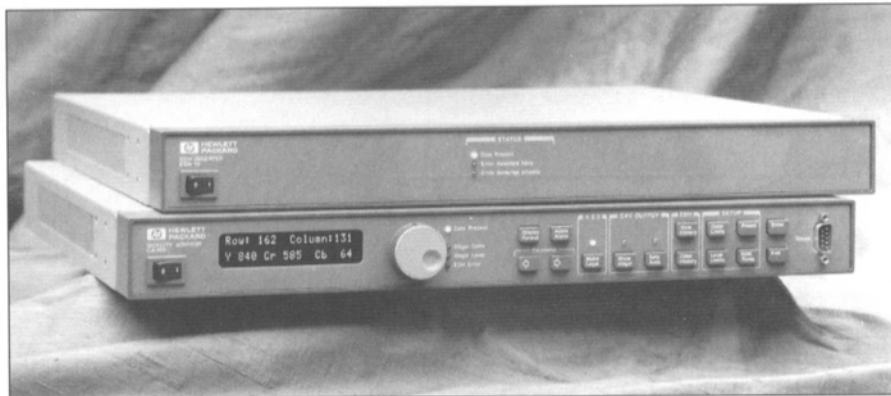
**Circle No. 206**

A composite, real-time disk recorder was debuted by Accom, Inc., 1490 O'Brien Dr., Menlo Park, CA 94025, (415) 328-3818; Fax: (415) 327-2511. The RTD 4200 is the industry's first 10-bit component digital disk recorder. The unit records and plays full bandwidth, uncompressed 10-bit composite digital video and key onto a real-time, random-access Winchester disk drive. The system comes standard with 2 min, 8 sec of video recording time. The recording time can be easily expanded in 64-sec increments by adding disk drives, up to a maximum of 448 sec/channel. The dual-channel product may be configured for a single user, either in tandem (video and key) or in split (play/record) operations.

The company, in conjunction with Silicon Graphics, Inc., has also unveiled a desktop work station disk. The WSD™ provides a solution for computer graphics and animation applications requiring full quality, real-time digital recording and playback. The product provides 32 sec of uncompressed 4:2:2 component digital video storage capacity, conforming to the CCIR 601 standard, and can operate in 525 and 625-line standards. As an option, it can be equipped with either serial digital video I/O or analog RGB I/O.

**Circle No. 207**

A line of video-format-conversion products was launched by Hewlett-Packard Co., P.O. Box 58059, MS51L-SJ, Santa Clara, CA 95051-8059, (800) 452-4844. The line includes encoders, decoders, serializers, deserializers, A/D converters, and D/A converters. The products are designed to be the electronic interfaces



Hewlett-Packard HP Quality Adviser QA100 and HP EDH Inserter EDH10.

that allow the latest high-tech video processing equipment to be integrated easily with existing equipment. The products use a proprietary filtering technique that continually adapts its encoding or decoding to provide optimum performance based on the picture information in the surrounding pixels. Modules currently available include the HP DI1501 digital-component serializer/deserializer, the HP DI1502 TRS-ID inserter/blanker, the HP DI1401 D/A converter, and the HP DI1402 A/D converter.

The company also introduced the HP Quality Adviser QA100, which solves common problems encountered in 4:2:2 digital post-production. The unit monitors and corrects illegal levels and colors to ensure that professional video producers provide their clients with the highest quality 4:2:2 digital video. A companion product, the HP EDH Inserter EDH10, provides an error-detection-and-handling function by monitoring and inserting checkword information into the digital data stream to assure engineers and artists of quality signal transmission.

The company also unveiled the HP 8992A digital video power analyzer, which features special waveform math functions that can be used to measure broadcast transmitter performance under modern digital-modulation conditions. The unit is designed for advanced engineering work in HDTV broadcast, in which the modulation format is expected to require phase-shift modulated signals, such as 32 QAM.

**Circle No. 208**

Two cameras featuring handheld zoom-lens technology are available from Fujinon Inc., 10 High Point Dr., Wayne, NJ 07470, (201) 633-5600; Fax: (201) 533-5216. The A15X8EVM and S15X6.1EVM incorporate advances in television lens design, including aspheric technology (AT), inner focus, V-grip servo design, and user-adjustable zoom speed. The use of AT delivers dramatic improvements in many areas of lens performance, including reduced spherical

aberration, higher magnification, and improved corner resolution. The inner-focus design allows filters to be mounted directly on the lens, and graduated, star, polarized, and other types of filters to be set once without readjustment after refocusing.

**Circle No. 209**

Advanced Broadcast Video Service (ABVS), a high-speed transmission offering, was announced by Pacific Bell, 2600 Camino Ramon, San Ramon, CA 94583, (510) 823-7240; Fax: (510) 867-1405. The service uses the latest digital telecommunication technologies to provide motion, color, and sound applications for the film and broadcast industries, transporting all grades of video from HDTV to interactive film and video editing. It also delivers one-way transmission of monochrome or NTSC standard color formats compressed to 45 Mbits/sec along with up to four audio channels.

**Circle No. 210**

The Steadicam™ Video SK System was introduced by Cinema Products Corp., 3211 S. La Cienega Blvd., Los Angeles, CA 90016-3113, (800) 955-5025; Fax: (310) 836-9512. The system is more compact, lighter, and easier to use than its predecessors. The product eliminates the need for dollies and features a universal dovetail camera mount, which can be used with any video camera weighing between 8 and 17 lb (less battery). The system package is equipped with an operator's vest, adjustable stabilizer arm, camera mounting assembly with Anton Bauer battery mount or NP-1 battery box, and a 4-in. green screen monitor for good outdoor viewing, even in direct sunlight.

**Circle No. 211**

The ND-EPC external power converter for DC supply was announced by Nagra/Phi Technologies, 4605 N. Stiles, Oklahoma City, OK 73105-3339, (405) 521-9000; Fax: (405) 52404254. The product, which is an accessory for the Nagra-D digital field recorder, overcomes



*Cinema Products Corp. Steadicam Video SK System package.*

the restriction of running time when operating where AC power is not available. The product powers the field recorder in exactly the same way as the ND-CCC mains power supply/charger, except that with the ND-EPC, the power source can be any DC voltage between 10 and 30 V, such as a car battery, battery belt, or sound cart battery. The unit allows the machine to be operated continuously.

**Circle No. 212**

Several products were launched by Leitch Inc., 920 Corporate Lane, Chesapeake, VA 23320, (800) 231-9673; Fax: (804) 548-4088. **The Bug Box** is a logo generator/inserter that will key a station bug directly into program video. The unit is available in two versions that can be programmed to display either any NTSC signal and a linear key signal, or two separate nonkeyable channels, each with any full-screen NTSC signal.

**The SPG-1321N NTSC/D2 Master Sync Pulse Generator** is a highly compact and advanced modular design with a 1302PG Pulse Generator module, a 1302BT Black and Tone module, and a 1312CS Color Standard module. **The SPG-1313N NTSC/D2 Master Sync Pulse Generator** provides a 1302GL

Genlock module, a 1302SG Sync Generator module, and a 1312CS Color Standard module.

**MIX-7001-DK Digital Component DigiKit** consists of four commonly used component digital video modules: the VES-2200 serial component PROM-Slide™ signal generator, the VSP-7001 Serial-to-Parallel Converter, the VPS-7001 Parallel-to-Serial Converter, and the VSM-6800 Video Signal Monitor.

The company also unveiled the extension to the Mix Box line of professional broadcast quality modules in a standalone frame to include a selection of small routing switchers, the SPG-1680N Sync Pulse Generator Module, and a wideband video equalizing distribution amplifier.

**Circle No. 213**

**A noise reducer and aperture correction option** is available with the vector standards converter, it was announced by Vistek Electronics Ltd., Unit C, Wessex Rd., Bourne End, Buckinghamshire SL8 5DT, England. The option improves the look of pictures suffering from inferior signals. The functions are entirely independent from the standards conversion process and may be used whether the vector is converting or synchronizing; adjust-

ments are provided for luminance and chrominance gain and luminance black level.

**A digital production switcher for post-production applications** is also available. The D8001/4, which provides high video quality, is suited to upgrade the three-machine analog component edit suite into the digital domain. With 4:2:2 serial digital video connection, the product integrates well with today's VTRs, DVEs, and character generators. The transparency of the signal manipulation within the switcher makes it ideal for use in 4:2:2 telecine and graphics areas or any application where high-quality processing is used. The switcher has eight video inputs and two layers of keying. The 4:4:4:4 video processing is specifically designed for chroma keying.

**Circle No. 214**

**The NV3064 Series of compact digital audio routing switches** was announced by NVision, Inc., P.O. Box 1658, Nevada City, CA 95959, (916) 265-1000; Fax: (916) 265-1010. The series is designed for routing either asynchronous digital audio signals or ANSI/SMPTE 12M-1986 time code. Featuring a 6-rack-unit chassis and a nonblocking 64 X 64 matrix, the switches offer a compact, cost-effective alternative to other digital audio and time code routing switches. The NV3064-A is designed for routing asynchronous digital audio signals that conform to the AES/EBU data format. With an AES/EBU word-rate range from 28 kHz to 54 kHz, the switch accommodates all digital audio sampling frequencies, including the full  $\pm 12.5\%$  varispeed. The NV3064-TC is designed for routing time code signals to videotape recorders, R-DATs, and other analog or digital devices that conform to the ANSI/SMPTE 12M-1986 time code standard. To provide accurate time code interface at up to 100 times nominal speed, the switch features processed outputs and controlled rise time with 2.5-V peak-to-peak amplitude independent of time code rate.

**Circle No. 215**

**The Ambi/Combi System** was launched by DSC Laboratories, 3565 Nashua Dr., Mississauga, Ont., Canada L4V 1R1, (416) 673-3211; Fax: (416) 673-0929. The product gives the user complete control over image quality — from shoot through final dub. Ambi and Combi are versatile tools for camera alignment and maintenance, and for production applications in the studio and on location. The system features Combi test slides and Ambi test slide illuminators. Combi precision test patterns include vital gray scale, color bar, resolution, and geometry information — all in two shatterproof slides. The lightweight Ambi test pattern holder provides inherently even illumination, using actual

# Royal Television Society

## CAMBRIDGE CONVENTION

### 1993

The Society's biennial Cambridge Convention will be held this year at King's College, Cambridge, on 16-19 September.

*The Convention is recognised internationally as a forum for debate and it features prominent guest speakers discussing major issues facing television today.*

The Convention Chairman is Brian Wenham of Carlton Television.

The Keynote Speaker will be a leading political figure.

This year's session topics will include digital compression and its applications, the way in which news coverage has shaped the political agenda, and television and violence.

If you would like to know more about attending the Convention please contact Jane Goddard at the *Royal Television Society*:

Holborn Hall  
100 Gray's Inn Road  
London WC1X 8AL  
United Kingdom

**TELEPHONE (International): 44 71 430 1000**

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Circle No. 101

ambient light to illuminate the pattern. At each lighting change, Ambi/Combi is positioned within the set so that it is illuminated with typical scene lighting. A few frames of the Combi test slides are recorded on film or video. Recording these signals enables correction to NTSC/SMPTE or PAL/EBU colorimetry standards, or to the look of another shoot. Perfect color and tonal matching between scenes shot under different lighting conditions is done quickly and easily by adjusting the transfer function with the gray scale and positioning the color signals in the vectorscope boxes.

**Circle No. 216**

Several products were introduced by Apogee Electronics Corp., 3145 Donald Douglas Loop South, Santa Monica, CA 90405, (310) 915-1000; Fax: (310) 39106262. **UV22 Encoding** is the company's proprietary digital process for encoding information beyond the 20-bit level on the 16-bit CD format. The process offers superior performance to traditional methods of dither, noise shaping, and other variations of these schemes.

A line of digital audio cables, referred to as the "Wyde Eye" Series, can be used in a variety of digital interfacing applica-

tions, including S/P, DIF, Word Clock, and AES/EBU formats. The cables feature proper impedance for correct termination, high flexibility for maximum ease routing, connectors with controlled impedance characteristics, and gold pin connectors with high-strength strain reliefs.

The company also unveiled an enhanced version of its AD-500 analog-to-digital converter. The **AD-500E** features several new design modifications, including an analog input processing module. The unit offers the same operational features as its predecessor, including the "soft limit" and "soft saturate" controls.

**Circle No. 217**

**Hi8 M221E videotape** from Fuji Photo Film U.S.A., Inc., 555 Taxter Rd., Elmsford, NY 10523, (800) 755-3854, is the world's first metal particle (MP) tape that delivers performance equal to metal evaporated (ME) tape. The tape is designed to be used with the hardware's selector switch set in the ME position. The product utilizes the company's super double-coating technology, as well as an advanced super-thin layer and high-output metal medium. **Hi8 M221 MP videotape** incorporates the company's double-coating technology to produce

the best possible image and sound in a Hi8 MP product. Two layers of magnetic particles are applied simultaneously, resulting in significant improvements in both audio and video reproduction. The tape features exceptionally high output and ultralow dropouts.

**Circle No. 218**

**An automated xenon black light** is available from Xenotech, Inc., 8211 Lankershim Blvd., N. Hollywood, CA 91605, (818) 767-0365; Fax: (818) 767-0395. The Very Long Throw Blacklight, a 4000-W ultraviolet spotlight, can create black-light effects on individual subjects more than 1000 ft away. The product consists of a 4000-W short-arc xenon lamp with a tempered dielectric band-pass ultraviolet filter. The remote-controlled beam spread can be adjusted to spotlight a circle as small as 20 in. or as wide as 72 in. from 50 ft away. The remote-control capabilities allow for individual control of the product or coordinated control of multiple lights from a remote location. The unit is available in standalone and automated versions.

**Circle No. 219**

**Model 740 Spectral Processor** was launched by Dolby Laboratories, 100 Potrero Ave., San Francisco, CA 94103-4813, (415) 558-0200; Fax: (415) 863-1373. The product is a two-channel dynamic equalizer that boosts low-level signals in three bands by as much as 20 dB, without affecting high-level signals. The unit enables the recording, post-production, or broadcast engineer to bring out low-level detail without squashing transients or increasing overall level.

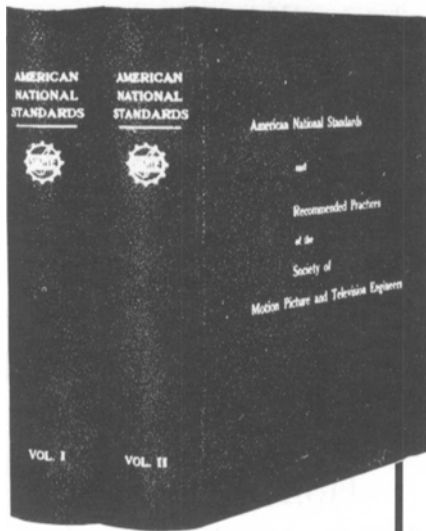
**Circle No. 220**

**A weather alert system**, manufactured by Broadcast Software Solutions, has been announced by Chyron Corp., 265 Spagnoli Rd., Melville, NY 11747, (516) 845-2000, Fax: (516) 845-5210. Lightning Fast Weather (LFW), which is designed for television station emergency weather reporting, alerts staff to National Weather Wire Service advisories and automates the fast airing of appropriate crawl messages to alert the viewing audience. The system consists of two 386 MS-DOS compatible computers (one located in the station weather office and the other in a master control room), the Chyron CODI text and graphics generator, an amplified alarm speaker system, a speed-enhanced network system connecting the two computers, and MS-DOS-compatible LFW software. The LFW weather office computer is connected to the Contel weather wire service and constantly scans for weather data.

**Circle No. 221**

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**Society of Motion Picture and Television Engineers**

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**Circle No. 108**