

New Products

Further information about these items 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 real-time disk recorder that records video and key from 10-bit video production equipment has been announced by Ac-com, Inc., 1490 O'Brien Dr., Menlo Park, CA 94025. The RTD 4224, which incorporates leading-edge Winchester disk technology, is a versatile recording machine with the ability to capture 601 digital video and key with 10-bit resolution. The product can be flexibly configured for two simultaneous users. System recording times can be expanded from 32 sec up to 30 min to accommodate future growth. The unit also features useful tools such as ethernet to allow image transfer and RTD transport control from computer graphics equipment.

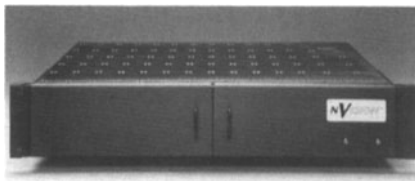
The company also launched the ADC analog-to-digital converter and the DAC digital-to-analog converter. The ADC is a bridge from analog component formats to digital 601, parallel and serial formats; the DAC is a bridge from digital 601, parallel and serial, to analog component formats. The units are high-quality, 10-bit converters. Both switch automatically between 525 and 625-line standards, offer remote control through an RS-422 serial digital port, and have loop-through inputs.

Version 3.0 of the Explore and TDImage software was launched by Thomson Digital Image America, Inc., 1270 Ave. of the Americas, Ste. 508, New York, NY 10020. Both products feature interactive photorealistic rendering (IPR), a new rendering technology that combines interactivity with increased photorealism. Explore runs on Silicon graphics workstations and TD-Image runs on the IBM RISC System/6000 family of workstations. With IPR, the company has introduced a new concept in 3-D photorealistic rendering — immediate visual feedback when making changes in lighting, color, shading, and textures. Using IPR, rendering parameters can be combined for sophisticated effects on individual objects. IPR also offers increased realism by providing such features as high-quality antialiasing, selective ray tracing, automatic motion blur, sophisticated shading and shadowing effects, and optimized memory management. Graph windows within IPR allow users to designate specific rendering characteristics during different times within an animation. With Version 3.0, the company offers in one model both surface modeling using Non-

uniform Rational B-Splines (NURB) and polygonal modeling that incorporates Boolean operations. Users are able to make interactive modifications directly on curves. The 2-D mapping capabilities have been extended so that users are able to map 2-D images interactively on both polygons and surfaces.

The DP Series of paint, animations, and effects systems is designed to meet the video generation, manipulation, combination, and processing demands of virtually any customer, it was announced by Dynatech Colorgraphics, 6400 Enterprise Lane, Madison, WI 53719. DP/Painter satisfies the demands of high-quality graphics production, rotoscoping, type, and matte creation. Among the available options is the Mosaic digital disc cache in either 25 or 100-sec configurations. DP/Animator offers all the capabilities of DP/Painter, as well as 2-D and 3-D animation scripting tools. It is ideally placed as the central device of a mid-to-high-end graphics suite. Mosaic is also an option with this product. DP/MAX is a sophisticated video workstation, designed to address high-end applications in the digital video domain. The product contains the entire scope of image-generation capabilities of DP/Animator, but it excels at processing moving video clips in a variety of ways. Among its key features are real-time layering and real-time color correction.

Text Effects, an upgrade for the A72 digital character generator that extends the system's graphics capability, was introduced by Abekas Video Systems, 101 Galveston Dr., Redwood City, CA 94063. Innovative, patent-pending shading techniques allow A72 users to create multicolored gradated text, apply light-simulating highlights at any angle with variable width and softness, select individual characters or blocks of text for shading, and achieve glass-like effects by varying the shading transparency. The upgrade also enhances the A72's color composition menu.

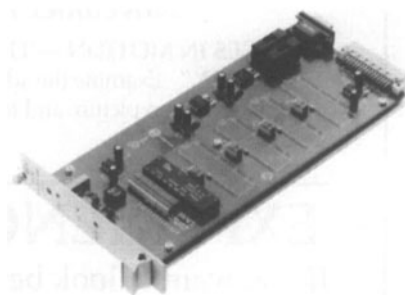


NVision NV1000 terminal equipment

The NV1000 Series of terminal hardware was unveiled by NVision, Inc., P.O. Box 1658, Nevada City, CA 95959. Designed

for digital audio signal conversion, plant distribution, and synchronization, the product works as a cost-effective system solution to digital audio terminal equipment needs. Each module of the series is supplied with its own I/O panel so that different functional modules may be installed in the same frame. Available modules include A/D-D/A converters, codecs, AES/EBU distribution amplifiers, and video genlocking reference generators. Up to 12 individual modules can be installed into one compact 2-rack-unit frame. Simple field installation of module I/O panels make easy work of system expansions and changes.

The Spot Speaker CS-V230 was unveiled by Pioneer Communications of America, Inc., 600 E. Crescent Ave., Upper Saddle River, NJ 07458-1827. The product, a uni-directional speaker designed to focus sound into a specific area, is ideal in lecture halls, exhibits, trade shows, museums, department stores, and other situations with multiple sound sources. The unit, which provides background music and clear narration without noise interference, offers an easy way to create interesting and dramatic sound effects for live or static demonstrations. The speaker uses filters to reduce side direction sound and has a sound-pressure level of 92 dB. The horizontal direction is 0 to 30° (12 dB) and the vertical is 0 to 60° (24 dB). Compact and lightweight, the speaker can easily be set up and dismantled.



Allen Avionics and BAL Series 2873 active delay card

AVS Series miniature, broadcast-quality filters were launched by Allen Avionics, Inc., 224 E. 2nd St., Mineola, NY 11501. The products, designed with OEM manufacturers in mind, enhance any analog or digital video product. Six different stop-band ratios from 1.25 to 1.75 are available. The filters can be used in PC board mounting, single-in-line or dual-in-line epoxy packages, or metal cans with pins.

Allen Avionics and BAL announced the release of the 2873 Series of zero loss, ac-

New SMPTE Book

Proceedings: The 26th Annual SMPTE Advanced Television and Electronic Imaging Conference

A collection of proceedings from the 26th Annual Advanced Television and Electronic Imaging Conference is now available from the SMPTE. The conference, entitled *Collision or Convergence: Digital Video/Audio, Computers and Telecommunications*, was held February 7 to 8, 1992, in San Francisco.

The 248-page book contains 20 select, unedited papers on the convergence of computers and video/audio technology, covering such topics as motion imaging, networked mixed media computing, the role of the microcomputer in editing and graphics, and digital HDTV.

Contents

Foreword, Frank J. Haney

Preface, Peter Hammar

The Ultimate Motion Imaging System, G. Seth Shostak

The Computerization of the Video World and the Videoization of the Computer World, Steven Mayer and Charles Clarke

Design of the A72 Digital Character Generator and its Implications, Adam J. Wilt

High Quality Audio Compression for Broadcast and Computer Applications, John P. Stautner

A Tutorial on Picture and Sound Compression, and an Introduction to JPEG and MPEG, Charles A. Poynton

Challenges in Full Motion Video/Audio for Personal Computers, Edwin J. Kroeker

Networked Mixed Media Computing, Brian C. Knittel

Digital Telecommunications for Digital Audio/Visual Production, Tom Scott

The Enhanced Viewing Experience — What Does it Take? Peter D. Symes

The Design Challenges of Full-Motion Video for PC-Computer Systems, Dave Hodgson

Digital Signal Processing with Separated Lows and Highs for TV Applications, Martin Botteck

Digital HDTV Compression Techniques for Terrestrial Broadcasting, William Y. Zou

HDTV and HRI — Avoiding the Collision and Applying Perspective to a Convergence, Laurence J. Thorpe

Enterprise-Wide (Network) Digital Automation Protocols: What's Happening? What's Needed? C. Robert Paulson and David E. Lewis

Digital Image Exchange: File Format and Calibration, K. Curry, G. Kennel, M. McCrackan, and D. Snider

Lessons My Mother (Ma Bell) Taught Me About Compatible Variable Bit Rate Video, Carl Ostrom

Weighing the Advantages of Scalable Digital Video, Craig J. Birkmaier

A Novel Image Compression Technique Using Modular Algorithm, Jidong Shen

Factors that Will Shape Future HDTV Technical Plants, James Kutzner

Improvement of Picture Quality in Nonstandard Speed Play of Digital VTR, Hitoaki Owashi, Kyoichi Hosokawa, Kazuhiko Yoshizawa, Yoshizumi Watatani, Shoji Ohno, and Toshiaki Kawamura

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tivity delay cards. Designed to fit BAL's standard 2800 system 3-rack-unit-high frame, the cards can also be mixed with VDAs, ADAs or any of BAL's other 2800 cards, making the system extremely flexible. The rack holds 14 cards as well as the power supply. Five delay cards are available, fully programmable, from 25 to 540 nsec, 1040 nsec, 1540 nsec, 2040 nsec, and 2540 nsec. High-quality switches are used to make delay adjustment easier.



Fujinon compact lens

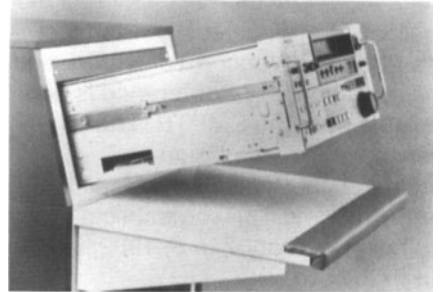
A compact lens for handheld cameras has been introduced by Fujinon Inc., 10 High Point Dr., Wayne, NJ 07470. The A24 x 11.5ERD is designed for easy handling, with easy operation of all controls. The product has a maximum aperture of f/2.0 from 11.5 to 207 mm and features a

built-in 2x extender, which extends the focal length to 306 mm. MOD is 1.8 m.

The 15x lens, from Angenicux Corp. of America, 7700 N. Kendall Dr., Suite 407, Miami, FL 33156, is suited for small studio applications where the extremely wide angle of 68.5° can provide a wide horizontal field of view. This effectively increases the useful studio floor area and permits operation in confined spaces. For unmanned operation the lens is 100% compatible with all currently available robotic systems. A 2x range extender is standard, and the lens is available with full manual, semi-servo, and zoom-focus controls. The product's extreme wide angle allows an entire set to be covered with a very short distance between the front of the lens and the on-air talent. In addition, when used with a teleprompter for news and similar applications, the short distance eliminates any difficulty the on-air talent might have in reading the script.

Vector, a video echo cancellation system, has been unveiled by Philips Laboratories, 345 Scarborough Rd., Briarcliff Manor, NY 10510. The product, which will be marketed by Magnavox CATV Systems, a Philips company, relies on a ghost cancellation reference (GCR) pulse that is in-

serted into the vertical blanking interval of the transmitted video signal. The GCR allows the echo cancellation system to remove echoes more rapidly and reliably than other alternatives. The product is easily installed in the cable systems' head-end as a rack-mount unit.



The Winsted Corp. rack slide kit

A rack slide kit to accommodate Sony's PVW-2800 and PVW-2600 Betacam VCRs has been announced by The Winsted Corp., 10901 Hampshire Ave. S., Minneapolis, MN 55438. Model F8101 is designed to hold the VCR securely and allow safe, easy maintenance of equipment. The VCRs pull out easily on heavy-duty ball bearing slides. Adjustable finger brackets allow rack mounting in slope or vertical racks.

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Employment Service

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Positions Available

Chief Engineering Manager. Strong technical skills and supervisory ability needed. Rank experience a plus. Excellent benefits and salary package. Send resume to Diner + Allied, 620 Third St., San Francisco, CA 94107, Attn: Division Manager. EOE.

Digital Design Engineer. Leading television video processing company seeks MSEE with at least two years actual digital video design experience and five years of PAL/NTSC circuit design or equivalent. Competitive salary and benefits. Send resume with references and salary requirement to Yves Faroudja, Faroudja Laboratories, 675 Palomar Ave., Sunnyvale, CA 94086. Call (408) 735-1492. Fax: (408) 735-8571.

Positions Wanted

Cameras/Director. Film and video. 30 years experience in news, documentaries, sports, research, and development. Willing to relocate to Southwest U.S. or Europe. Available for full-time staff position or contract assignment. Contact R. M. Koniar, P.O. Box 1284, Guasti, CA 92743. (714) 944-7810.

Chief Engineer. With dual EE/Business education and five years experience seeks radio/TV position in Northeast area market. Good people skills; very fast learner. Call D. Sparano, (518) 355-9612.

Lighting Director/Cameraman. Fifteen years of video production experience in both broadcast and nonbroadcast. Skilled lighting director, cameraman, tape operator, master control, also producing and directing. Seeks position with broadcast station in Dallas/Ft. Worth market. Contact C. P. Neal, 4105 Periwinkle Dr., Ft. Worth TX 76137. (817) 847-0238.

Maintenance Engineer. Tech school graduate seeking employment in southern California market. Broad experience in the commercial electronics field, VCRs. 1/2-in., 3/4-in., S-VHS, as well as cameras, camcorders, cables, switchers, and audio. Can adjust, align, or repair to component level. Experienced on bench and in studio. Contact T. G. Broom, 2024 Dawson Ave., Signal Hill, CA 90806. Voice/fax: (310) 597-5850.

Journals Available/Wanted

These notices are published as a service for members to expedite disposal and acquisition of out-of-print Journals. Please write directly to the persons and addresses listed.

Available. SMPTE Journals 1972-1983 (1978-1983 in binders). Contact Douglas Worling, 74 Wellington St. East, Aurora, Ont., Canada L4G 1H8. (416) 727-3216.