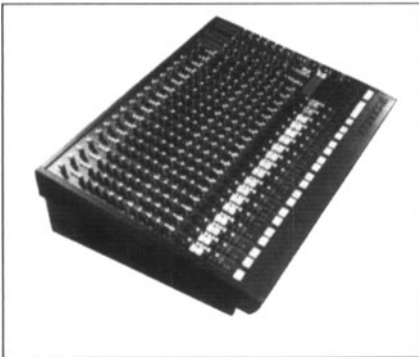


New Products



The K-1 audio console from Soundcraft.

Audio Equipment

The K-1 console from Soundcraft is available in 8, 16, and 24-channel frame versions. Other features include a modular construction for custom configuration, an on-board 4 x 4 matrix mixer, and a discrete mono output bus directly assignable from each input channel. The mono input channels offer phase reverse switch, high-headroom/low-noise microphone pre-amps, high-pass filters, 4-band equalization (with both mid-bands sweepable), six auxiliary sends, routing to subgroups or mix, dedicated mono bus switch, PFL and ON buttons, and LED indicator for signal present and peak overload.



The Film Module from Sonosax.

New from Sonosax is the **Film Module** plug-in companion to the Sonosax SX-S series of portable sound mixers. The unit offers high-quality metering, remote tape machine start/stop, integral private intercom, and an advanced audio slating system.

Cameras and Camera Accessories

New from Telemetrics, Inc., is the **RS-232 controlled weatherproof robotic camera system**. The environmental housing contains the camera, lens, pan/tilt/zoom/focus functions, and preset position data. It also includes a power supply, thermostatic heater, cooling fan, and window wiper.



The Fujinon S15X6.1ESM studio production lens.

Lenses and Lighting

The S15X6.1ESM studio production lens from Fujinon, Inc., features aspheric technology, which provides control over spherical aberration and better overall optical performance. It also has enhanced focus tracking, better corner registration, and greater brightness than other similar 1/2-in. studio production lenses. Standard features include a built-in 2x extender that can be deployed via a remote demand unit or shot box. The focal length is 6.1 to 91.5 mm, and its zoom ratio is 15x. Maximum aperture is F1.4 to 82 mm and F1.6 at 91.5 mm, and minimum object distance is 0.75 m.

Production and Post-Production

The D/ESAM 820 digital edit suite audio mixer is now available from Graham-Patten Systems. This upgrade from the the D/ESAM 800 Series features a new digital input card with an integral sample-rate converter, a new master processor board, a new audio output module, and Version 4.0 software. The master processor board increases the number of D/MEM storage registers from 20 to more than 600, allowing multiple users to store and recall settings, while the audio output module offers improved 20/24-bit resolution throughout the D/ESAM chassis.



Graham-Patten's D/ESAM 820 edit suite audio mixer.

The **Compressionist 200** from Minerva Systems is an integrated system consisting of a scalable video preprocessing and encoding engine, a Macintosh-based host system, and the MPEGmaker application software suite. The real-time video processing engine is capable of digital (D-1) or analog (YUV) video input, high-quality audio capture, both MPEG-1 and MPEG-2 main level, main profile video encoding, and MPEG layer 2 audio encoding. It supports resolution up to the CCIR 601 digital standard for both NTSC and PAL and compresses video at data rates up to 15 Mbits/sec. Audio and video streams are multiplexed in real time, and an audio and video decoder is also included. Minerva's **Picture Resampler** preprocesses the CCIR 601 resolution video input to the Minerva compression engine. Its powerful spatial filters perform horizontal and vertical resizing of video fields or frames to support a variety of picture sizes and pixel aspect ratios.

NVision has announced an enhanced version of its digital audio processing suite. **DAPS II** was designed specifically for telecine suites and similar video-transfer applications. The unit's flexible design and "building-block" topology allows the user to route 16 inputs and outputs; mix, amplify, and attenuate those audio channels; delay audio to correctly sync with the video; and convert any incoming audio sample rate to the desired output sample rate. The remote control panels enable the entire system to be operated from within the normal telecine or edit-suite environment, with the NVision modules remaining in a central equipment room.

The **Audio Compressor Limiter** from Pro-Bel, Inc., was designed for transmission and post-production operations with special emphasis on DAB broadcast applications. It uses a sophisticated algorithm to look ahead at the incoming audio and automatically adjusts the level according to predefined rules, which may be altered to suit the type of program material.

Signal Processing/ Transmission Equipment

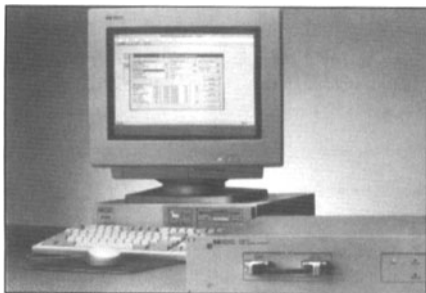
AKG Acoustics has expanded its WMS900 Series UHF wireless system with the addition of the **PR900 and SR800 compact receivers**. The battery-powered PR900 is housed in a road-rugged case and is supplied with a Velcro strip for attachment to a professional camcorder. Each PR900 is tuned to one TV channel and may be switched to any one



The PR900 receiver from AKG Acoustics.

of 12 subchannels to allow reception from a variety of different microphone/transmitters. The SR800 true diversity receiver offers two completely separate reception circuits with silent switching, dbx noise reduction for extended dynamic range, and receiving frequency selectable from 12 subchannels of one UHF TV channel. Other features of the SR800 include continuously adjustable user squelch via front panel control, front or rear antenna mounting, transformer-balanced XLR audio outputs, 11-segment LED bar to indicate audio or RF levels, and independent level controls for headphone and main outputs.

The CLM4400 compact MPEG-2 video encoder from C-Cube Microsystems is designed for electronic news gathering, distance learning, ad insertion, and digital video storage and retrieval. The encoder supports frame-based encoding at 352 x 480 (NTSC) and 352 x 576 (PAL). Frame rates of 24, 25, and 30 frames/sec are supported at compressed data rates from 2 to 15 Mbits/sec.



The HP 85942A video-signal monitor from Hewlett-Packard.

Hewlett-Packard Co. has announced the development of the **HP 85942A video-signal monitor**. Designed specifically for unattended, nonintrusive monitoring of cable headends and broadcast transmitters, each analyzer comes with a Windows-

compatible remote user interface so it can be set up and configured easily. Test plans can be defined and stored in the analyzer's memory and later executed by a preset schedule. The HP 85942A supports PAL and NTSC standards and provides the following video measurements: differential gain and phase, chrominance to luminance delay inequality, chrominance to luminance gain inequality, chrominance to luminance intermodulation, pulse-to-bar and k pulse-to-bar, luminance nonlinearity, signal-to-noise, and frequency response.

The Compass Presentation Playout System from Pro-Bel, Inc., provides full automation of the entire transmission operation, including mixers, VTRs, still stores, and disk servers. Interfacing to any schedule preparation or traffic system, Compass allows all items to be tracked from preparation to transmission.

Telebyte Technology, Inc., is now offering the **Model 704 Super Deluxe Videoverter**, which is equipped with three outputs: S-VHS, composite, and RF. The user can connect the Model 704 to any video device from a standard television with only an RF input to the most sophisticated television monitors, projectors, or VCRs. The unit provides flicker-free operation for displaying a VGA image on a television, and the VGA-to-video conversion features a three-line video RAM memory. The Model 704 supports Windows 3.0/3.1 operation and VGA modes up to Super VGA, 640 x 480 with 64,000 colors.

Thomson Broadcast, Inc., has developed the **TTV 7830 motion-compensated standards converter**. Features include compact size, high-performance digital composite encoding and decoding for I/O, film mode processing, and noise reduction.


Software

New from Dynatech Video Group is the **Delta Series Text and Graphics Systems, version 5.4**. This new software version allows for the exchange of images with desktop paint and graphics systems from Adobe Photoshop and other applications through the importing and exporting of Targa Image files. Operational enhancements include automatic crawl length adjustment to force a crawl to run at both a fixed speed and a specified time, and the ability to quickly swap the current row or next row. Version 5.4 also adds support for Sinhala and Arabic languages to the Delta Series.

Hewlett-Packard Co. has introduced the **HP MPEG-2 Protocol Viewer** for the HP E4200/E4210 broadband series test system. This product fully supports the

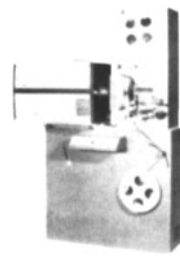
ISO/IEC 13818-1 systems layer standard for MPEG-2; it runs on the HP E4209A cell protocol processor module of the broadband series and displays transport stream and packetized element stream fields and flags in an easy-to-understand format. The new software displays field-length errors clearly and supports any number of transport-stream packets encapsulated in ATM adaptation layer-5 frames. Other non-MPEG-2 packets may be viewed simultaneously as well.

Magni Systems, Inc., has introduced the **VGA Producer 16 (VGAP 16)**, a high-performance SVGA card for the PC platform with video output and overlay capability. The VGAP 16 supports screen resolutions of 640 x 480 for NTSC and 800 x 600 for PAL. It provides simultaneous outputs of noninterlaced VGA and interlaced video. A stable genlock circuit allows computer-generated graphics to be keyed over an external video source. For these applications, any of the VGAP 16's palette of 65,000 (16-bit) colors can be defined as the key color. For applications requiring transparent keys, a second key color is available in 256-color mode. An external remote box is provided with the unit for controlling key and fade functions.



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OptImage has introduced the **MediaMogul Studio Package** for Windows, which includes all the hardware and software necessary to author CD-i titles on Windows-based systems. Included is an ISA card that provides simulation capabilities, MediaMogul authoring software, script2disc software for creating a disc image, and digital video plug-in software for incorporating MPEG-encoded digital video sequences into applications. The package also includes MediaStockroom, which is a graphics, video, and audio asset database and conversion system.

New from Soundtracs is a proprietary software package geared to make on-board automation on the Solo Logic easier to use. **The Solo Logic Display Software** provides at-a-glance indication of the position and activity of all the channel faders and the channel, monitor, auxiliary master, and effects return mutes on a console. Designed to run on an IBM-compatible PC under Microsoft Windows, the package also simplifies loading and saving of mixes and provides a MIDI Timecode Display and a MIDI activity meter. It can be configured to any size of Solo Logic and only requires a minimum hardware configuration and an MPU-401-

compatible MIDI card.

Sundance Digital has announced the **StationMaster Broadcast Automation System**. This new system will control up to 12 Sony serial source machines, 8 GPIs, and a GVG 100 or Master 21-compatible switcher. StationMaster will also be fully interfaced with Sundance's FastBreak digital spot playback system to provide seamless integration of digital spot playback with program length tape playback. It also can interface with traffic systems both for receiving playlists and returning as-run reconciliation reports.

Wavefront Technologies, Inc., has developed the **ArcVision software** for architectural visualization. Wavefront's Interactive Photorealistic Rendering tool allows the architect to interactively control all lighting, texture mapping, and materials settings, and then see the results immediately in the rendered image. In addition to translating, modeling, geometry cleaning, animation, rendering, and painting capabilities, ArcVision provides more than 500 predefined materials and a complete set of ready-to-use prop objects such as furniture, trees, cars, office equipment, appliances, and lights.

Switchers and Routing Systems

Pro-Bel, Inc., has announced the **TX-220 digital master control switcher**. The TX-220 contains 20 program inputs and employs 10-bit component digital video technology with AES/EBU digital audio processing. It also contains a provision for optional analog audio interfaces.

New from Thomson Broadcast is the **9920 digital master control switcher**, which broadcasts with local opt-outs, multilingual broadcasting, or multibroadcast centers. The 9920 allows the design of integrated, efficient and reliable presentation suites in all of these applications, in both 4:3 and 16:9 formats.

Support Equipment

The Winsted Corp. has introduced a **convenient flip-down shelf** for electronics on its new portable post-production consoles. Available on single-bay and multiple-bay consoles, the shelf folds down quickly and easily, allowing the console to be moved through doorways smoothly. It provides 19-1/4 in. of rack mount space to accommodate most controllers, keyboards, SEG, or other desktop electronics. The front edge is padded for comfort.

Test and Measurement Equipment

Leader Instruments Corp. has released the **LT 425D**, a 4:2:2 digital video generator that operates in both 525/60 and 625/50 systems. It features error detection and handling functions, conforming to SMPTE RP 165, and embedded, internally generated digital-audio test tones. Four serial outputs are provided. Test signals include full-field; BBC, EBU, and SMPTE color bars; color-bar-ramp combination; red raster; 100%/50% flat field; pulse bar; multiburst; multipulse 10-step staircase; line sweep; bowtie; oversize-digital limit and shallow ramp; and an SDI check field. Also offered is a digital genlock programmable source identifier (20 character), calendar, and clock.



The LV 5100D component waveform monitor from Leader Instruments Corp.

The LV 5100D 4:2:2 component digital and analog waveform monitor is also new

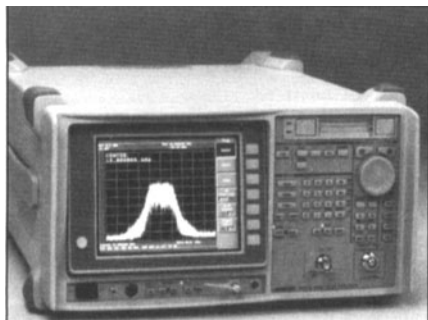
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from Leader Instruments. It handles two serial component digital inputs and a three-channel analog component input for use in mixed digital/analog component facilities. An error detection and handling system enables transmission error monitoring and analysis of signal status using the equivalent line-length technique. Functions provided by the LV 5100D include overlay, parade and timing displays, component vector, and line-select operations. Also featured are a picture display of G or Y signals for program identification uses and X-Y stereo monitoring function.

The WVM-710S automated video signal monitor has been introduced by Magni Systems, Inc. Two key automated measurements have been added to this updated version of the WVM-710. The first measurement screen includes SC/H phase, chroma amplitude and phase, peak video level, and sync and burst amplitude. A 2T K-factor measurement has been added to the second auto measure screen, which also includes noise level, chroma/luma gain and delay, differential phase and gain, and pulse-to-bar measurements. A third automeasure screen dedicated to frequency response measurements has also been added. Designed to work with the WVM-710 is the **VIT-701G vertical interval test signal inserter**, which provides a series of test signals for evaluation of video quality in operational applications.

For out-of-service testing or equipment setup applications, Magni now offers the **TSG-701 and TSG-705 test signal generators**. The TSG-701 contains 12 test signals, an external reference input, and a stereo test tone output. The TSG-705 is a dual standard generator, containing four NTSC and four PAL signals optimized for use with the WVM-710 automated measurements.

Tektronix, Inc. has introduced the Rohde & Schwarz **FSEA series of spectrum analyzers**. The FSEA 20 has a frequency coverage of 9 kHz to 3.5 GHz, while the FSEA 30 covers a frequency range of 20 Hz to 3.5 GHz. Both analyzers have a fast minimum full-span sweep time of 5 msec



The R3272 Spectrum Analyzer from Advantest.

with fully synchronized sweep. Also, up to 25 screen updates per second are delivered, giving the trace an analog or "real time" feel.

Tektronix has also introduced the **R3272 portable spectrum analyzer** by Advantest, Japan. The analyzer uses direct digital synthesis (DDS), which ensures the highest level of spectrum accuracy throughout the measurement range. The instrument's 100-dB display dynamic range and 300 Hz to 5 MHz resolution allow even the most complex signals to be evaluated.

Video Recording and Playback Equipment

Hewlett-Packard Co. has announced that it has doubled the capacity of its **HP 4:2:2 video disk recorder (VDR)** to 24 min. This new model enables animators and editors to transfer entire segments and full 22-min television episodes (a standard half-hour program, minus commercial time) from a workstation or D-1 source to a hard-disk array. These segments can then be played back in real time. A new digital audio interface — an option for HP 4:2:2 VDR models with capacities of 4 min or longer — allows digital audio and video recording and playback.

New from Peak Performance Technologies, Inc., is the **Peak High-Speed Video System** for recording motion at twice the speed of regular video. By recording at 120 Hz, the system doubles the sampling rate and provides twice as much information per study. Using a combination of special sequential scanning cameras and S-VHS Hi-Fi video cassette recorders improves SNR output and gives a much-improved image quality. The Peak High-Speed VCR senses the camera's recording speed and automatically sets its record level to the appropriate speed. The high-speed camera has genlock capability at 60 or 120 Hz. Shutter speed is quickly set on the camera by using switches located on the side of the camera.

The Model VDR 6011K video disk recorder from Recognition Concepts, Inc., works with high-resolution video using existing 4:2:2 equipment. Compatibility is maintained because the high-resolution disk is actually a pair of RCI's standard 4:2:2 video disk recorders. The two disks are slaved together and operate as a single 4 x 4 or 8:4:4 recorder. In 8:4:4 mode, the disk samples at twice the 4:2:2 rate yielding a horizontal resolution of 1440 luminance pixels and 720 chrominance pixels. The VDR 6011K stores 4 min of HD video and switches to 13 min of 8:4:4 or two independent 4:2:2 disks storing 13 min each.

For further information regarding the new products and developments listed in this section, contact the companies directly at the addresses listed below:

- AKG Acoustics**, 8500 Balboa Blvd., Northridge, CA 91329, (818) 894-8850; Fax: (818) 830-1220
- Birns & Sawyer, Inc.**, 1026 N. Highland Ave., Hollywood, CA 90038, (213) 466-8211; Fax: (213) 466-7049
- C-Cube Microsystems**, 1778 McCarthy Blvd., Milpitas, CA 95035, (408) 944-6300; Fax: (408) 944-6314
- Dynatech Video Group**, 180 Wright Brothers Dr., Salt Lake City, UT 84116, (801) 328-8872; Fax: (801) 328-3668
- Fujinon, Inc.**, 10 High Point Dr., Wayne, NJ 07470, (201) 633-5600; Fax: (201) 533-5216
- Graham-Patten Systems**, P.O. Box 1960, Grass Valley, CA 95945, (800) 422-6662; Fax: (916) 273-7458
- Hewlett-Packard Co.**, Direct Marketing Organization, P.O. Box 58059, MS51L-SJ, Santa Clara, Calif., 95051-8059
- Leader Instruments Corp.**, 380 Oser Ave., Hauppauge, NY 11788, (800) 645-5104
- Magni Systems, Inc.**, 9500 S.W. Gemini Dr., Beaverton, OR 97005, (800) 237-5964; Fax: (503) 626-6225
- Minerva Systems, Inc.**, 2933 Bunker Hill Lane, Suite 202, Santa Clara, CA 95054, (408) 970-1780; Fax: (408) 982-9877
- NVision, Inc.**, P.O. Box 1658, Nevada City, CA 95959, (916) 265-1000
- Optimage**, 7185 Vista Dr., W. Des Moines, IA 50266-9313, (515) 225-7000; Fax: (515) 225-0252
- Peak Performance Technologies, Inc.**, 7388 S. Revere Pkwy., Ste. 601, Englewood, CO 80112-9765, (303) 799-8686; Fax: (303) 799-8690
- Pro-Bel, Inc.**, 4480 N. Shallowford Rd., Ste. 102, Dunwoody, GA 30338-6410, (404) 396-1971; Fax: (404) 396-0595
- Recognition Concepts, Inc.**, 5200 Convair Dr., Carson City, NV 89706, (800) 243-8724; Fax: (702) 882-5381
- Sonosax**, CH-1162 St-Prex, Switzerland, +021 806 02 02; Fax: +021 806 02 99
- Soundcraft/JBL Professional**, 8500 Balboa Blvd., Northridge, CA 91329, (818) 895-3426; Fax: (818) 830-1220
- Soundtracs, PLC**, Unit 21-D, Blenheim Rd., Longmead Industrial Estate, Epsom, Surrey KT19 9XN, England, +0181 388 5000, Fax: +0181 388 5050
- Sundance Digital, Inc.**, 6309 N. O'Connor Rd., Ste. 217, Irving, TX 75039, (214) 444-8442; Fax: (214) 444-8450
- Tektronix, Inc.**, P.O. Box 500, Beaverton, OR 97077-0001, (800) 835-9433
- Telebyte Technology, Inc.**, 270 Pulaski Rd., Greenlawn, NY 11740-1616, (516) 423-3232; Fax: (516) 385-8184
- Telemetry, Inc.**, 6 Leighton Pl., Mahwah, NJ 07430, (201) 848-9818; Fax: (201) 848-9819
- Thomson Broadcast, Inc.**, 49 Smith St., P.O. Box 5266, Englewood, NJ 07631, (800) 882-1824; Fax: (201) 569-1511
- Wavefront Technologies, Inc.**, 530 E. Montecito St., Santa Barbara, CA 93103, (805) 962-8117; Fax: (805) 963-0410
- Winsted Corp.**, 10901 Hampshire Ave. S., Minneapolis, MN 55438-2328, (612) 944-8555; Fax: (612) 944-1546