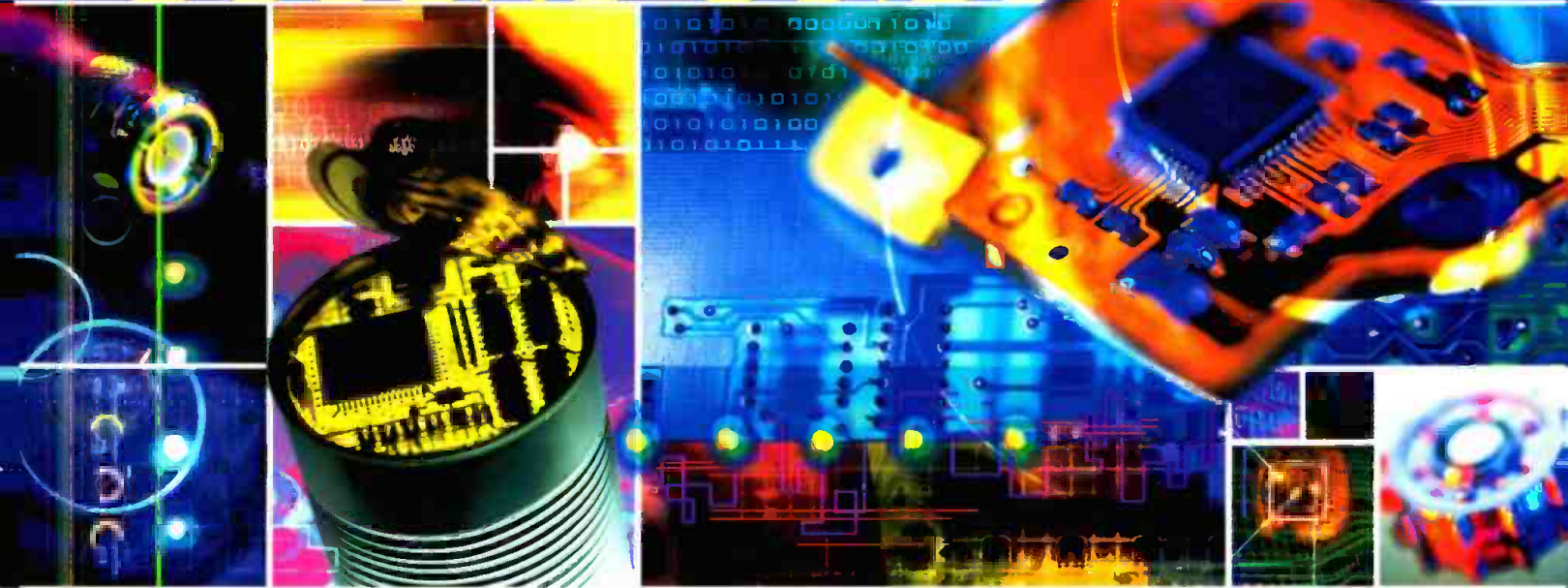


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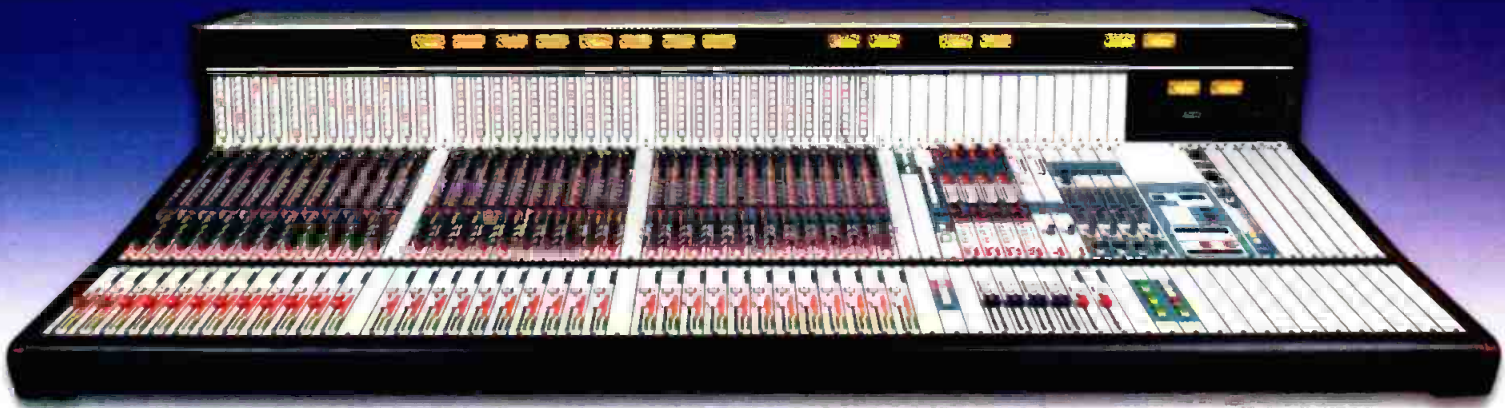
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Let's see, I need one of this, 15 of that. And, oh yes, 254 of those.

Sound familiar? Ever started what you thought was going to be a quick project only to find that you needed dozens of items from multiple vendors? Once you've identified what's needed, the really hard part begins. Where can you find equipment and parts suppliers? How can you find alternative resources and products?

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This year's *Broadcast Engineering DTV Buyers Guide and Web Reference* has about everything you'll need to answer all the above questions and more. Whether it's products, manufacturers, suppliers or dealers you need help with, they are all cross listed in several ways.

If you need a specific product, first check the Product Index, which begins on page 8. Find the product you need and locate the page number on which vendors for that product are listed. Turn to those pages and you'll find multiple companies that can provide the type of products you need.

If you just want to know the address or phone number of a company, go to page 96. More than 500 companies and dealers are listed in alphabetic order.

Need a quick Web address? Beginning on page 84 is a listing of companies and their websites.

So, there you are. Almost everything you'll need to complete that new project. All that's required now is another cup of coffee or diet cola—and maybe a few weeks of time.

Good luck! Let us know how it goes.



Brad Dick, Editor

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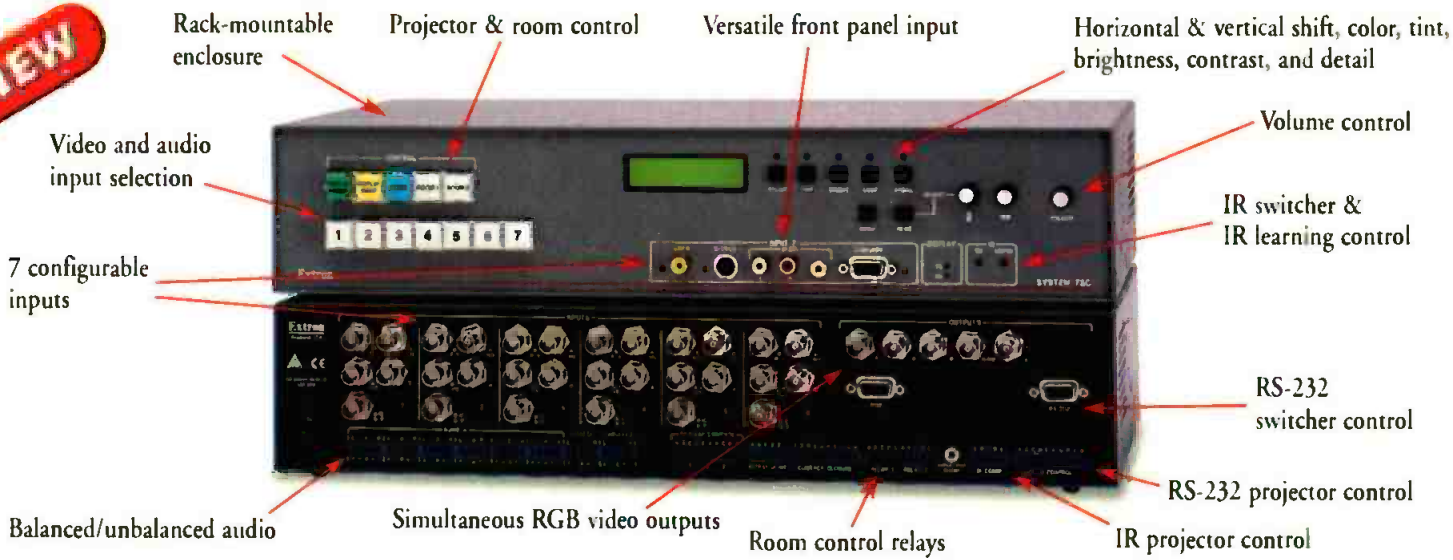
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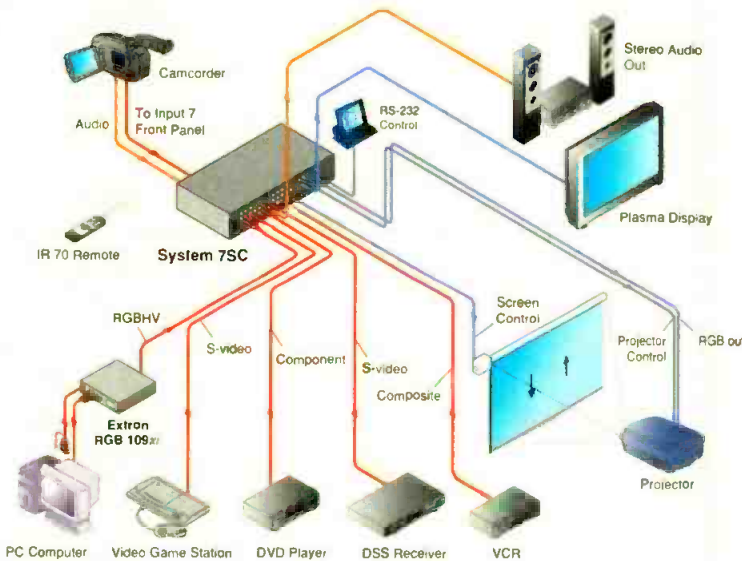


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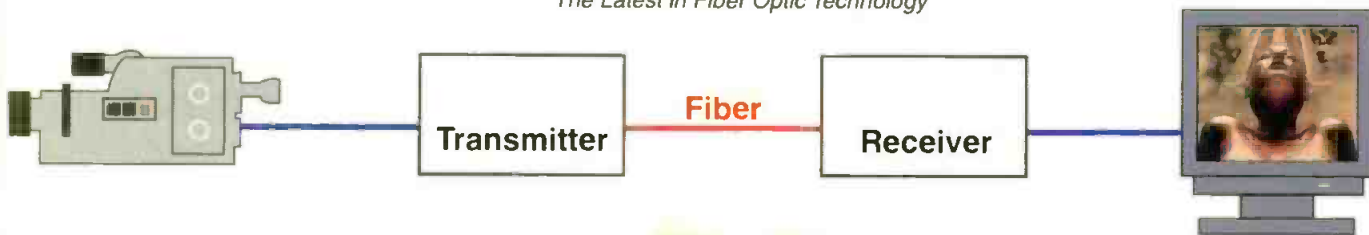


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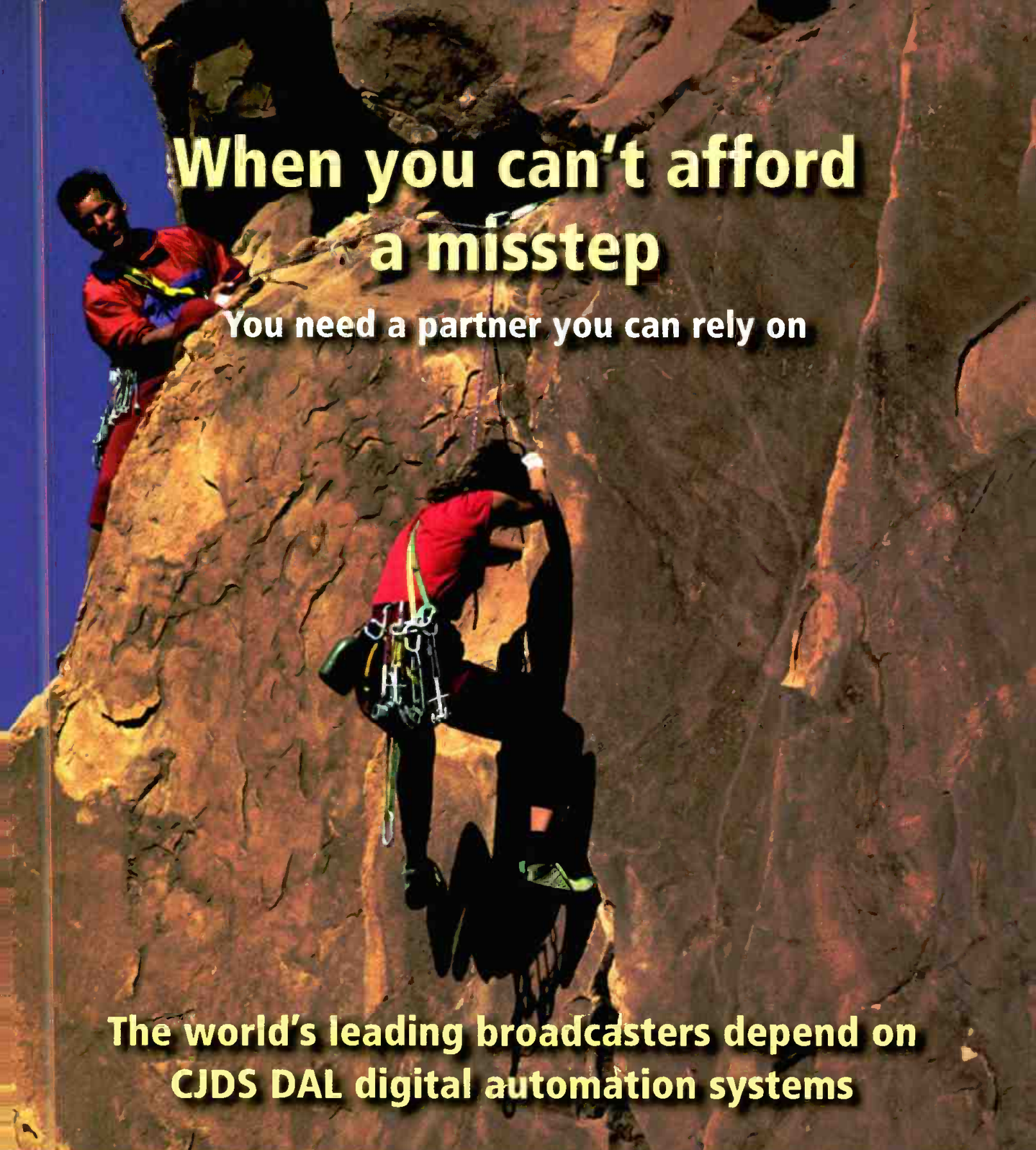
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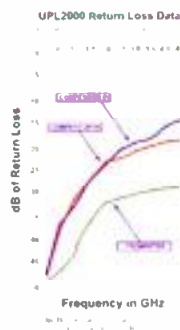
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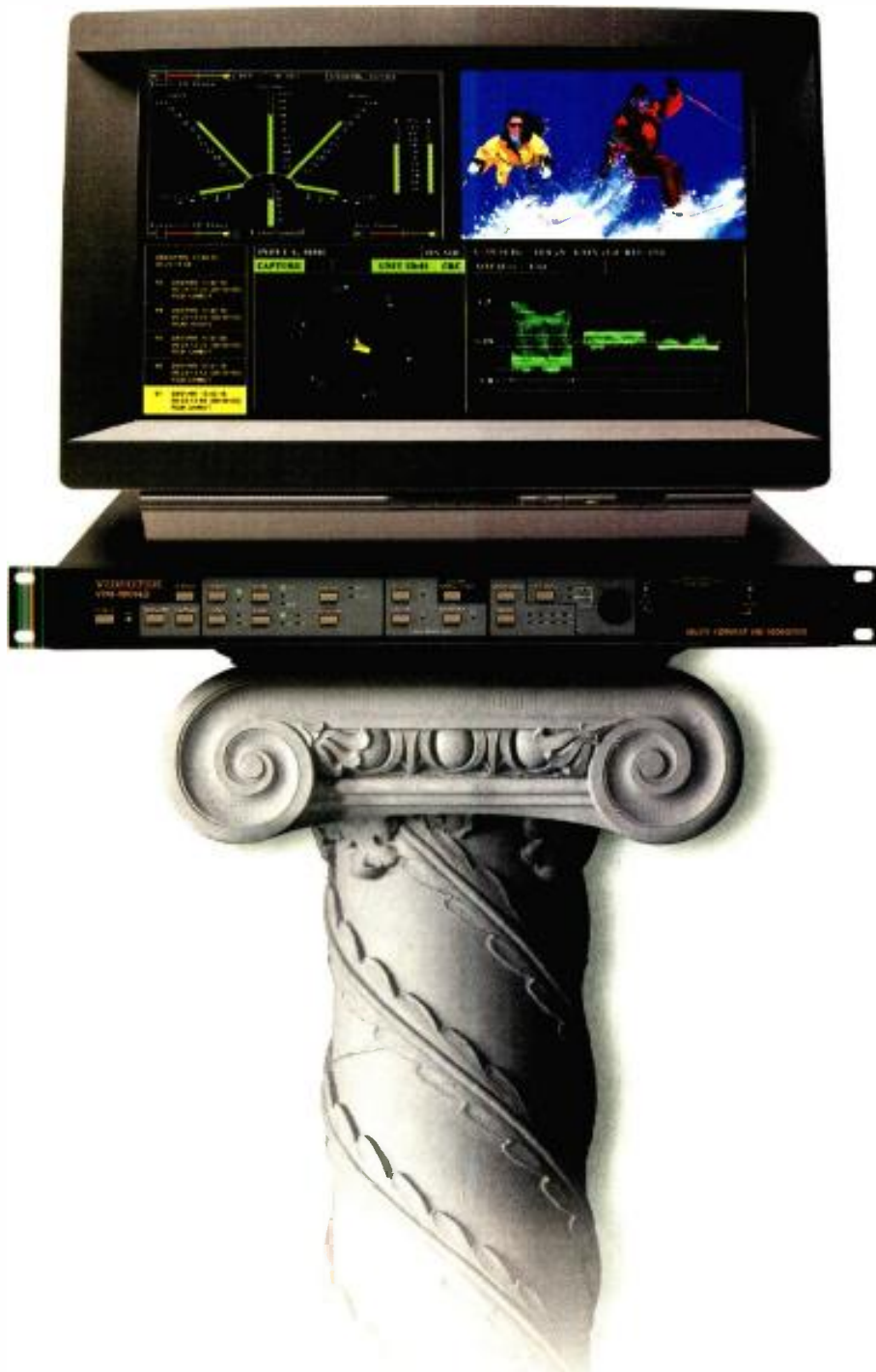
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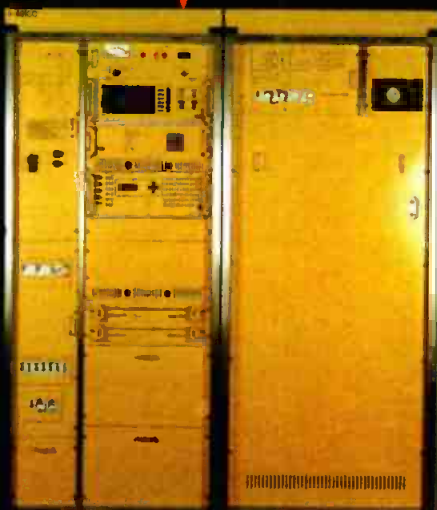
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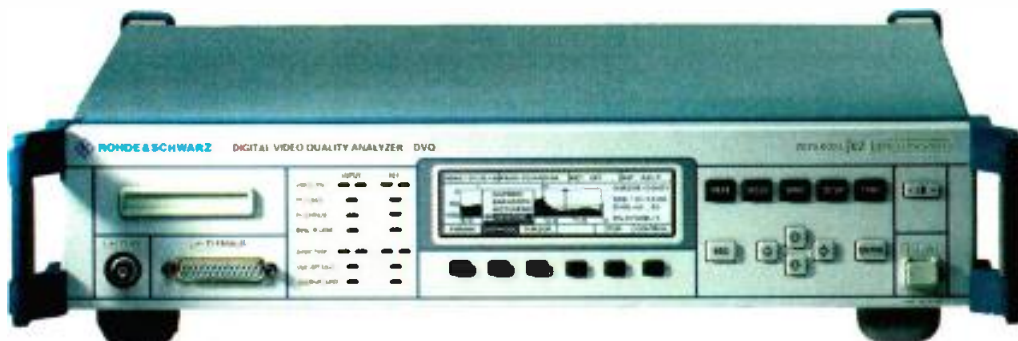
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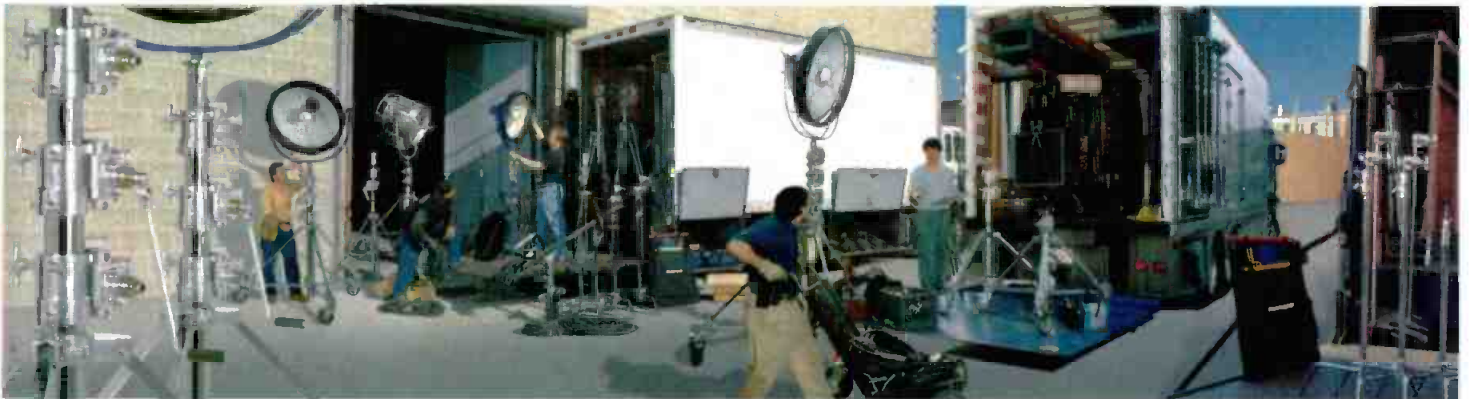
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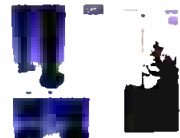
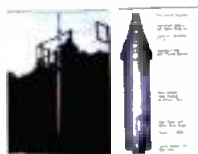
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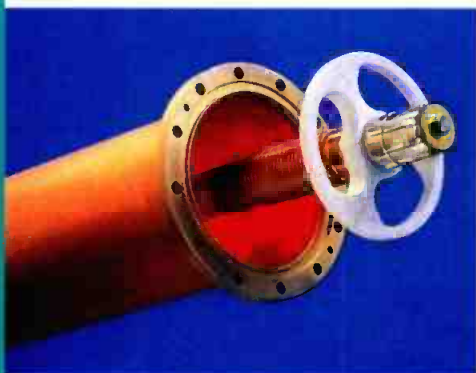
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MACXLine® rigid coaxial line is thermally compensated to provide twice the life of standard rigid lines. It is available in sizes from 3-1/8" to 8-3/16". MACXLine uses a bellows in the inner conductor to compensate for thermal expansion and contraction. Though standard bullet-type connections are used, they do not slide once put in service and never wear out.

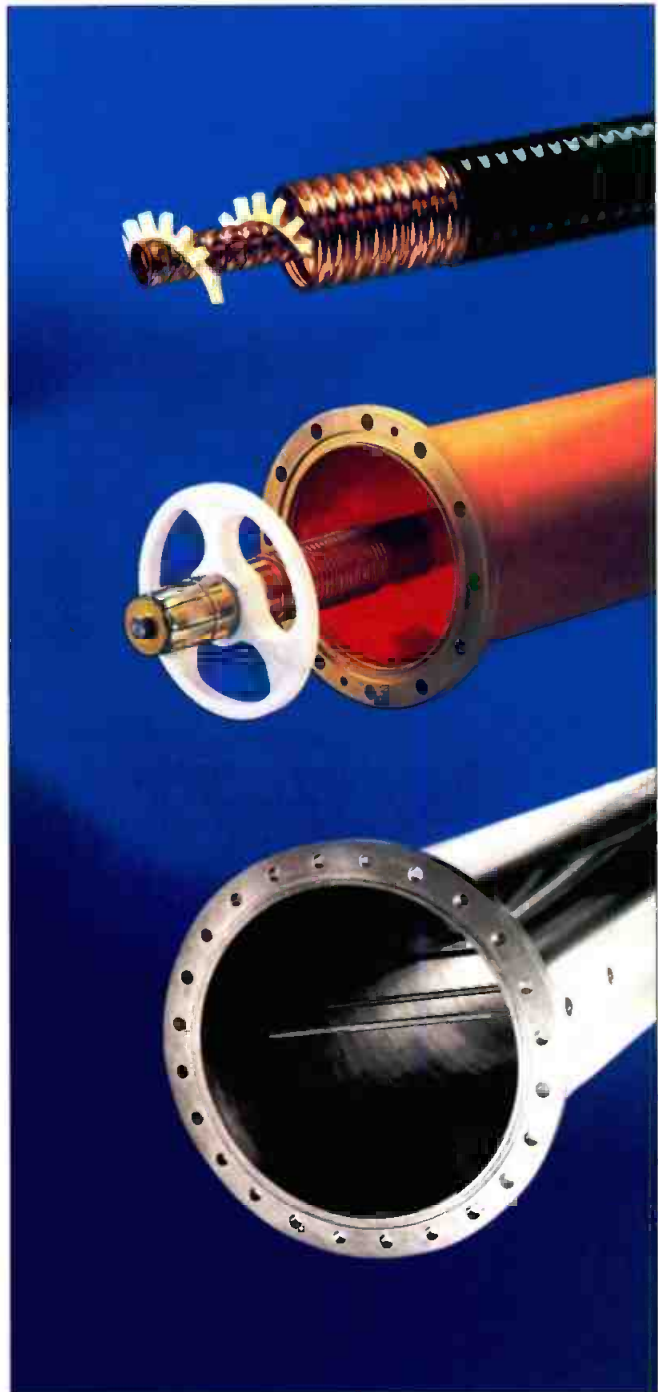
New WIDELine™ broadcast rigid transmission line offers good VSWR performance across the entire width of the UHF band. New DUALine™ rigid coaxial line is ideal for combining both DTV and NTSC signals for a single station into one line. Both are thermally compensated the same as MACXLine.

In addition to these products, Andrew supplies standard rigid line in 8-3/16", 6-1/8" (50 ohm), 3-1/8", and 1-5/8" sizes. Some 7/8" rigid line components and accessories are also available.

GUIDELine® circular waveguide is an ideal choice for high power broadcast, with its cross-polarization cancellation rods, for lowest attenuation and highest power.

Reliable HELIAX® air-dielectric coaxial cable is available in sizes up to 5". New, high power Type HJ9HP-50, 5" cable has an average power rating higher than 6-1/8" cable.

All of our transmission lines are conservatively rated. One of them is the right choice to optimize the performance of your broadcast system!



Broadcast Antenna Systems



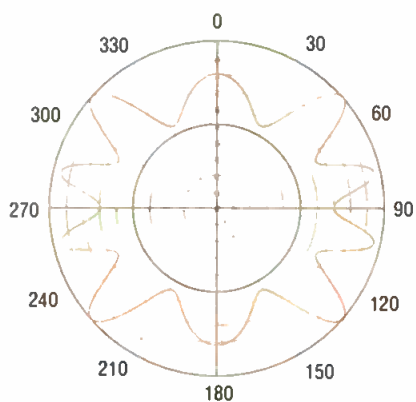
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Typical Azimuth Patterns



Lower Antenna of In-line Stack (External 6" Rigid Coax for Top Antenna)

The pattern above shows one of the shortcomings of an in-line stack. If the transmission line for the upper antenna is routed up the outside of the lower antenna, it can impact the azimuth pattern.

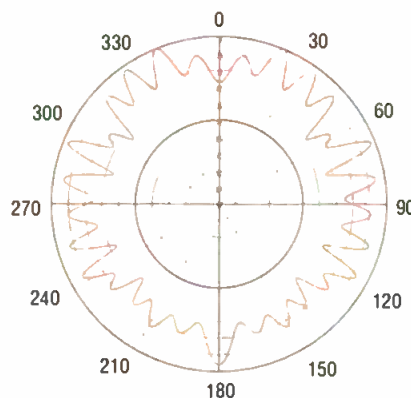
If the transmission line for the upper antenna is routed through the lower antenna, power handling and pattern control are compromised. This also complicates the mechanical design (and increases the cost) of the lower antenna.

Now Andrew offers a unique solution (patent pending) to the problem of diminishing tower top real estate. The STACKER offers high antenna density without the tradeoffs of in-line stack designs or the expense of a Candelabra or T-Bar.

The "secret" to STACKER's success is the careful integration of the lower antenna(s) into the support structure. Using advanced computer modeling tools, Andrew engineers optimize the structure mechanically without compromising the electrical performance of each antenna.

Service access to each antenna is preserved, as there is no mechanical interconnection between antennas. In fact, the STACKER design is so flexible that any antenna may be replaced while the structure remains on the tower and other stations remain on the air.

- Maximize antenna density at the tower top
- Independent operation, service & replacement of each antenna
- Superior azimuth pattern performance
- Lowest wind load per antenna
- Avoid the tradeoffs of other stack designs
- Performance of a Candelabra without the price



Lower Antenna(s) of STACKER

Every element of the STACKER mechanical design is chosen to minimize scattering and re-radiation. Transmission line for the upper antenna is routed behind the non-radiating leg – effectively disappearing from the view of the lower antenna(s).



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ALP Series II Antennas

New Andrew ALP Series II antennas deliver the versatility, power, and reliability that are the keys to success in today's competitive broadcast marketplace.

For full-power stations transitioning to DTV, ALP Series II antennas offer field-proven solutions. Broadcasters with medium power requirements can benefit from this antenna's light weight, low wind loads, and easy installation which provide reductions in installation time and costs.

For Low Power Television (LPTV) stations the new, higher power handling capabilities of the ALP Series II UHF antennas make them the ideal choice for the higher ERPs now allowed for LPTV stations and translator facilities. The ALP Series II antennas offer the quality and performance needed to improve coverage and maintain competitiveness in today's broadcast marketplace.

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Andrew Passive Power Products

Leveraging over 60 years of technology leadership and world-wide service to the industry, Andrew provides broadcasters and broadcast industry OEMs with high-performance, high-reliability passive power products for broadcast TV, DTV, radio, or DAB applications in the 30 kHz to 3 GHz frequency range.

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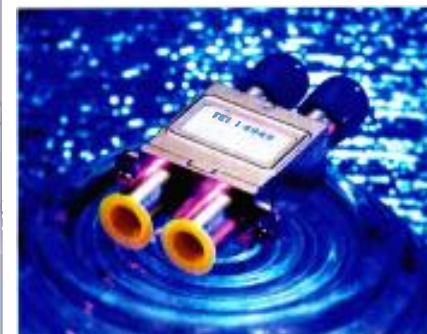
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 8-VSB Reference Receiver • Power Amplifier • Video Audio Monitor



Video Server MPEG2 Generator/Recorder

TSS-100A is a video server based on a scaleable power PC engineering workstation. Using high speed SCSI-II LVD hard-drives, its maximum capacity is limited to 100-Gbytes of Raid-0 storage capability. This unit is designed to transfer files by FTP, Internet, LAN, CD-ROM and SCSI. It generates MPEG2 files through DVB-ASI, SMPTE-310M and DVB-SPI outputs and records through DVB-ASI and SMPTE-310 inputs. Rack mounted and portable computer versions are also available.

8-VSB Modulator

VSB-ENC-200 is an 8-VSB modulator that conforms to the ATSC Terrestrial DTV Transmission Standard. Its input requires MPEG2 transport stream in SMPTE-310M, DVB-ASI or DVB-SPI format. The output is available on 44.0MHz I.F. or a fixed channel RF. A variable frequency up-converter is also available as an option. External 10MHz reference input or internal 10MHz OCXO frequency source can be used to set the output frequency. Linear and non-linear precorrection is available as an option.

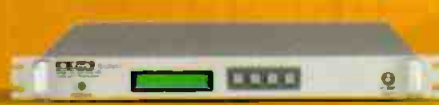
Video Audio Monitor

The KVA-100 is a rack mountable 6" diagonal unit LCD display, 16X9 aspect ratio, 640X350 resolution, L/R speakers, Volume meters, RGBHV Input (BNC).



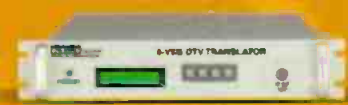
8-VSB Reference Receiver

DVM-100 is an 8-VSB Professional Receiver that accepts RF CH2-CH69 input, DVB-SPI input/output, DVB-ASI input/output, SMPTE-310M input/output and produces outputs in RGBHV video, VGA video, Y Pb Pr, Analog L & R audio, and Dolby Digital AC-3 audio. Video Modes: 1080i, 720p, 480p, 480i, NTSC Composite (BNC, SDI), PSIP Display, EPG. This product is useful in DTV monitoring and testing.



8-VSB Frequency Translator

The VSB-FREQ-100 is an 8-VSB channel converter, this unit performs tuning channels between VHF 2 - 13 and UHF 14 - 69 and produces an output frequency from 7 to 810 MHz. The LCD displays all input and output frequencies for an easy operation. This unit performs no demodulation.



8-VSB DTV Translator

VSB-REMOD-200 is an 8-VSB Translator that receives an 8-VSB signal via on-air or cable, demodulates to baseband data, corrects multipath errors by Forward Error Correction and Equalization techniques, Updates PSIP and re-modulates the baseband data into a new 8-VSB signal. A fresh copy of the original DTV signal is reproduced to extend your DTV coverage area.



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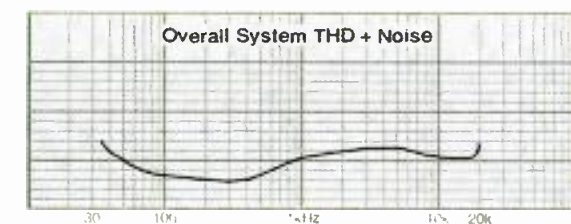
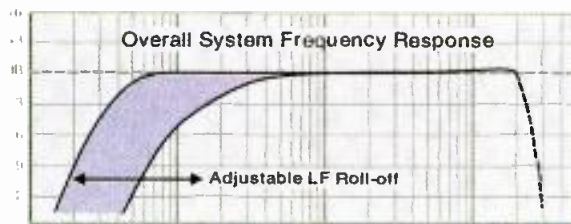
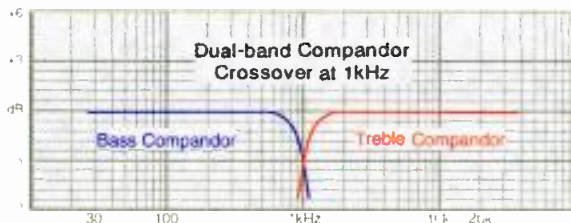
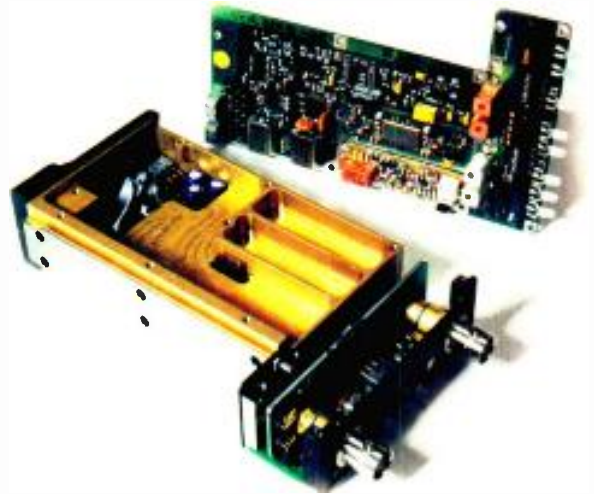
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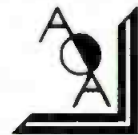
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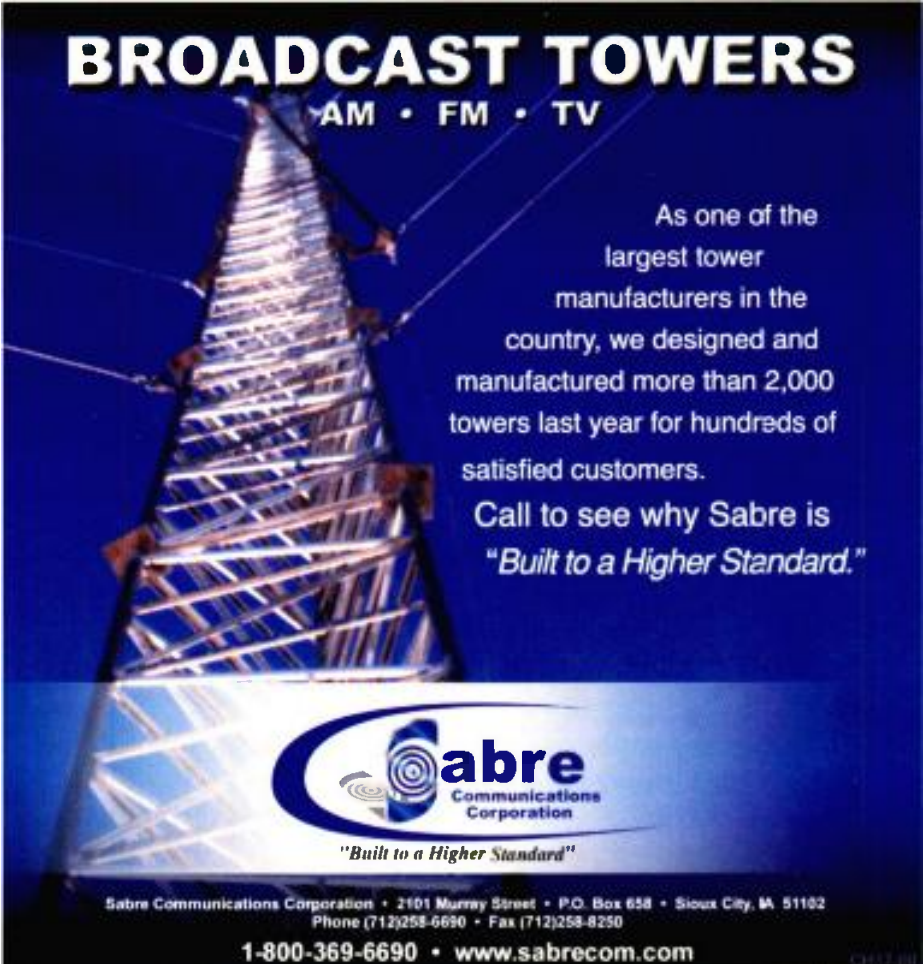
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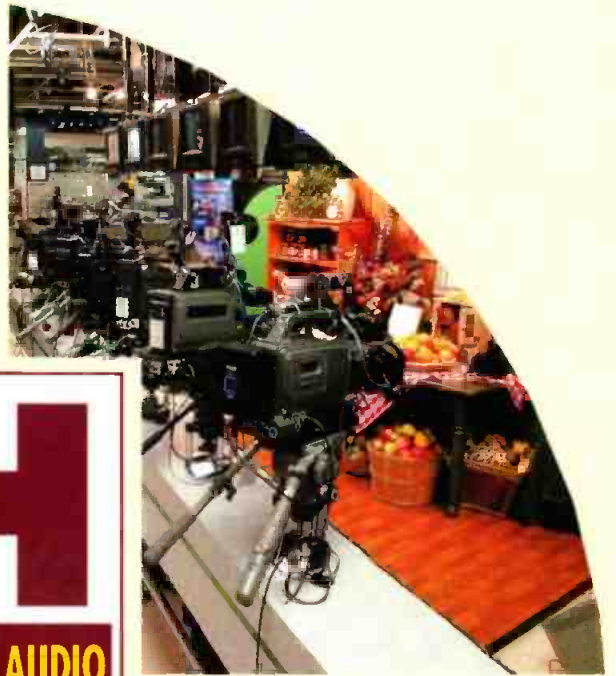
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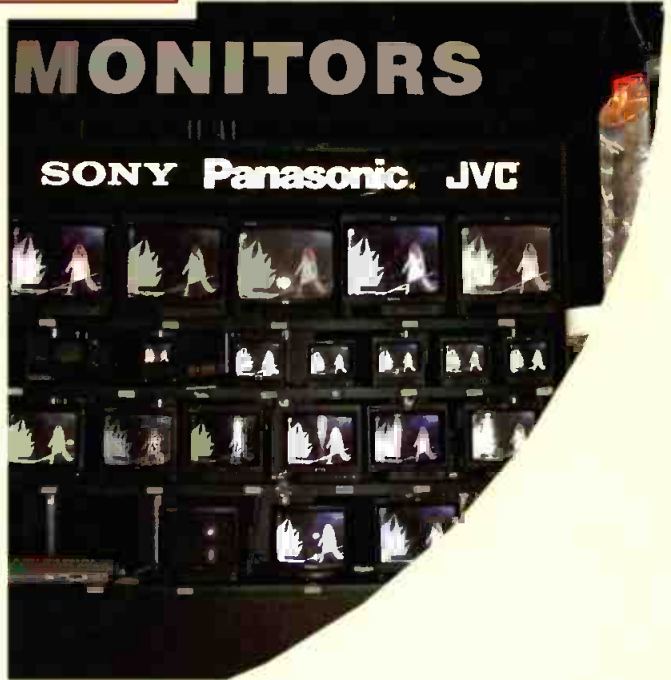
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SONY DSR-250 3-CCD DV & DVCAM

Introducing everything you need in an event camera and more. The new completely digital DSR-250 from Sony is a high image quality reduced size camcorder which has been optimized for shooting events and parties. Every feature you could want is included in this revolutionary acquisition tool.

- **1/2-inch x three 380K pixel (effective 340,000 pixels) CCD's** - the all-new two scanning modes: 480 progressive (for still) or interlaced (for video). They also provide high quality acquisition with increased resolution and sensitivity at reduced noise and vertical smear.
- **538 lines of horizontal resolution**, allowing you to capture your subject with tremendous detail.
- **Switchable aspect ratio** (4:3 (TV mode) or 16:9 (Movie mode)).
- **DXF-801 high resolution 1.5" black & white viewfinder** (same as the DSR500-1 & DXC-D35) enables easier focusing. Automatically switches from 4:3 aspect to 16:9.
- **Records in DVCAM or DV**, standard tapes or mini. Up to 270 minute recording in DV mode onto a 184 min. DVCAM tape.
- **One-touch auto focusing** in manual focus mode.
- **Manual or automatic functioning** Focus, Iris, Shutter-speed, Zoom, Gain (3 positions and memory).

- **Flip out 2.5" 200,000 dot LCD monitor**, finally available on a professional camera. Time-lapse stamp.
- **58mm lens with 12x optical zoom**.
- **Advanced optical stabilization** allowing for a high quality digital zoom out to 4x with a maximum digital zoom out to 48x.
- **Assignable time code** (Rel. Run, Free-run, User-bit).
- **16 bit 2 channel audio recording**, or 12 bit 4 channel.
- **Digital in/out** (IEEE 1394) and analog in/out.
- **Still image capture onto memory stick** - Upload graphics from memory stick or USB adapter; software included.
- **Phantom 48V power** - Built in speaker • Directional microphone in pro mic holder, 2 XLR audio inputs.
- **Built in edit controller**, equipped with an i-LINK interface, allowing camcorder to serve as edit player or recorder.
- **Soft shoulder pad** - **Wireless remote controller**.
- **Uses Sony's lithium ion batteries** (BPL series).
- **External 12V supply** - Connection for light. The DSR-250 is equipped with light output (DC 12 V, maximum 30 watts).



SONY DSR-300A 3-CCD Digital (DVCAM) Camcorder

Inheriting many of the same features and functions as the DSR-130, the affordable DSR-300A actually extends operational convenience with a range of new features and peripheral products. Remarkably compact and lightweight, the improved DSR-300A provides high mobility without compromising picture quality and can be held comfortably on your shoulder through the longest shoots and gives videographers the ability to acquire their footage quickly and easily.

- **The DSR-300A has three 1/2" Hi Power HAD CCDs** to deliver 800 lines of horizontal resolution, 62dB S/N ratio and high sensitivity of 11 at 2000 lux.
- **Power HAD CCDs also gives you a low smear level of -110 dB** (DNR-300) allowing more freedom to shoot highlighted subjects.
- **With built-in 26-pin VCR interface**, they can feed composite or S-Video output signals to an external recorder for parallel or serial recording. VCR recording modes including Parallel, Internal (only) and External (only) are selected via the trigger switch, positioned on the operational panel.
- **With the DSR-300A**, a picture previously recorded on tape can be superimposed on the viewfinder screen (Freeze Mix Function), allowing you to easily frame or reposition the subject just as in the previous shot. Combined with the SetupLog function, the retake shot becomes a breeze.

- **LSI Digital Signal Processor** (the very same one used by the DXC-D30 cameras) for a high signal-to-noise ratio of 62 dB.
- **Both mini-cassettes (PDVM series) and standard cassettes (PDV series) can be used with the DSR-300A**. With PDV-184ME (standard), a maximum recording time of 184 minutes can be achieved. They can also play back tapes recorded in the consumer DV format.
- **For operational convenience** while shooting, the Time Code is superimposed on the viewfinder screen or MONITOR OUT screen, even during playback.
- **DXF-801 viewfinder** featuring variable peaking, 3 level tally light and a white LED light with 2 levels of intensity to illuminate the lens setting. • IEEE1394 i-LINK (out only).
- **Color Temperature Shift** allowing the operator to manually shift the white balance either towards blue or red to compensate for confining (color temp mix) and because of the wide range it also provides creative artistic painting.

SONY DSR-20/40 DVCAM Player/Recorders

The DSR-20 and DSR-40 are versatile DVCAM VCRs with compact chassis and a variety of convenient functions for recording, playback and simple editing. They feature Auto Repeat Playback, Power-On Recording/Playback, multiple machine control interfaces and i-LINK (IEEE 1394) input and output. And, of course, they offer the stunning image and sound quality inherent to the DVCAM format.

- **i-LINK** They both offer i-LINK (IEEE1394) input/output. In addition, the Digital Dubbing including TC Copy mode, full information of digital audio and time code of the original tape can be copied to another tape. Especially useful when making working copies of the original.
- **Inputs and Outputs** They provide a full range of analog video inputs and outputs for integration into current analog-based systems. They both offer composite and S-Video input/output, with the DSR-40 (only) offers a component output as well. The DSR-20 is equipped with analog audio inputs and outputs (RCA), the DSR-40 with RCA inputs and XLR-balanced output. These connections in combination with their i-LINK interface allow a smooth transition to an all digital system in the future.
- **Record/Playback Functions** Automatic repeat function for repeated playback. After reaching the end of the tape, the DSR-20/40 automatically returns to the beginning starts playing back the segment again.



- **DSR-20 Only** - The DSR-20 can be powered by AC or DC.
- **Equipped with Control L interface**, the DSR-20 can perform simple Time Code based editing when connected to another DSR-20 or other similarly equipped VCRs/cameras.
- **DSR-40 Only** - Equipped with an RS-422A interface, it can perform as a remote control in A/B roll or cut editing system.
- **It also has a simple recording function** which can be controlled either manually or via its RS-422A interface.
- **The DSR-40 is not equipped with a synchronization capability**, the editing accuracy is performed by pre-roll and play.

SONY DSR-30 DVCAM Digital VCR

The DSR-30 is an industrial grade DVCAM VCR that can be used for recording, playback and editing. DV standard 4:1:1 sampling digital component recording with a 5:1 compression ratio provides spectacular picture quality and multi-generation performance. It has a Control L interface for editing with other Control L based recorders such as the DSR-200A DVCAM Camcorder or another DSR-30. It also has a continuous auto repeat playback function making it ideal for kiosks and other point information displays.



- **Records PCM digital audio** at either 48kHz (16-bit 2 channel) or at 32kHz (12-bit 4 channel).
- **Equipped with Control L**, capable of SMPTE Time Code based accurate editing even without an edit controller. Built in editing functions include assemble and separate video and audio insert.
- **By searching for either an Index point or Photo Data** recorded by the DSR-200A camcorder, the DSR-30 drastically cuts the time usually required for editing. The DSR-30 can record up to 135 index points on a Cassette Memory thanks to its 16K bits capability.
- **Audio Lock** ensures audio is fully synchronized with the video for absolute precision when doing an insert edit.

- **Built-in control tray** has a jog/shuttle dial, VCR and edit function buttons. The tray's tactile dial allows picture search at 1/5 to 15X normal speed and controls not only the DSR-30 but also a player hooked up through its i-LINK interface.
- **DV In/Out** (IEEE 1394) for digital dubbing of video, audio and data with no loss in quality.
- **Analog audio and video input/outputs** make it fully compatible with non-digital equipment. Playback compatibility with consumer DV tapes allows you to work with footage recorded on consumer-grade equipment. Tapes recorded with the DSR-30 are also compatible with Sony's high-end DVCAM VCR's.



SONY

SONY DCR-VX1000 3-CCD Digital Camcorder

The DCR-VX1000 records 500 lines of horizontal resolution, and has a higher S/N ratio than cameras costing ten times more. Also records audio digitally, using PCM technology, the same as used in CDs for a breathtaking dynamic range of 96 dB. Most important though, since video and audio signals are recorded digitally, you can copy or edit multiple generations with no loss in quality. Analog tape artifacts like color bleeding, dropouts and generation loss are all a thing of the past.



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- **Eight-speed 10X optical zoom lens** goes from 5.9 to 59mm in 4.1-20 secs. Also provides a digital 20X zoom.
- **Records 12-bit/32kHz audio** with two pairs of stereo tracks.
- **Automatic and manual audio level record controls.**
- **Built-in time base corrector (TBC)** delivers jitter-free playback and dead-perfect stills.
- **Digital effects** include audio and video fade (to black), overlap and slow shutter • Time-lapse recording.
- **Sony's Super SteadyShot** reduces high frequency camera shake without compromising image quality.
- **Records "extended data codes"** - Automatically stores date/time, shutter speed, iris and other data for easy recall.
- **Records drop-frame time code** for accurate editing.
- **Record still image pictures** with audio for up to seven secs.

- **Focusing, exposure and white balance** are all automatic or can be manually controlled.
- **Zebra pattern indicator** just like professional cameras.
- **Pre-set, store and recall your own custom settings** for color intensity, white balance, sharpness, brightness and gain shift (0dB/3dB).
- **Precision 180,000 pixel color viewfinder** incorporates a separate information sub panel which displays time code, battery time, tape remaining and other camcorder functions without cluttering up the viewfinder.
- **Control L terminal** for communication between camera and edit controller.
- **Built-in ND (neutral density) filter**.
- **Square lens hood** reduces external light flare effects.

JVC GY-DV500 1/2-inch 3-CCD Professional DV Camcorder

The world's first DV camcorder designed from the ground up for professional ENG work, the GY-DV500 combines the convenience and cost-effectiveness of Mini DV with the performance and features you need. Incorporate three 1/2-inch 380,000 pixel (1.1 CCDs) for superior picture performance (equivalent to 750 lines of resolution) superb sensitivity of F11 at 2000 lux and minimum illumination of 0.75 lux (LoLux mode). Rugged construction with a rigid diecast magnesium housing. Extremely portable, compact and light weight (less than 11 lbs fully loaded). Additional features like the menu dial and Super Scene Finder assure ease-of-use and shooting flexibility while the IEEE1394 and RS-232 interface allow integration into various non-linear and post-production systems. A professional camcorder in every sense, the compact, lightweight GY-DV500 redefines acquisition for corporate, educational, cable and broadcast production, as well as wedding videography and multimedia applications.



- **Professional Specifications**
- **Applies JVC's DSP** with advanced 14-bit video processing to bring out more natural details, eliminate spot noise, accurately reproduce dark areas, and restore color information in dark areas.
- **CCDs are equipped with advanced circuitry** to virtually eliminate vertical smear when shooting bright lights in a dark room. Ensures efficient light conversion with a sensitivity of F11 at 2000 lux.
- **CCD Defect Correction function** evaluates white defects with the lens closed and then stores their addresses in memory. When the camera is turned on, the data is sent to the DSP for storage and real-time correction.
- **Black Stretch/Compression function** ensures accurate reproduction of black areas on the screen. Advanced color matrix circuits give even difficult images a very natural appearance.
- **Multi-stream parallel digital pipeline processing** at 40 MHz creates an ultra-smooth gamma curve, calculated using a true log scale algorithm. The result is a dynamic range of 600% to accurately reproduce fine details and colors in shadows or highlights.
- **Multi-zone iris weighting system** gives priority to objects at the central and lower portions of the picture for accurate auto exposure under any condition, even if a bright subject moves into the picture.

- **Adjustable gamma** for adjusting the "feel" of the picture according to taste. Adjustable detail frequency for setting picture sharpness for a bolder or finer look.
- **Viewfinder status display** uses characters and menus to display selected information, including audio indicator, tape and battery remaining, time, VCR operation and warning indicators. Camera settings and setup parameters can also be checked at a glance. A built-in menu dial lets you quickly navigate through the viewfinder menu.
- **Highlight Chroma Processing** maintains color saturation in highlights. The result is natural color reproduction, even in bright highlight portions of the picture.
- **Smooth Transition mode** ensures a smooth transition with no jump in color or light level taking place when manually changing gain or white balance settings.
- **Professional Audio**
- **To complement its superior video performance**, the GY-DV500 offers outstanding digital PCM sound. You can choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels with a dynamic range of 85 dB.
- **In addition to camera mounted mic**, has two XLR-balanced audio inputs with 48V phantom power and manual audio control. Phantom power can be switched off when not in use.
- **Side-mounted speaker** lets you monitor audio in playback and recording modes without headphones. The speaker also delivers audible warnings.

JVC SR-VS10U MiniDV and S-VHS VCR Combo

The SR-VS10U is a unique all-in-one video solution combining miniDV and Super Hi-Fi Stereo in one VCR. The MiniDV deck allows direct playback of cassettes you've recorded on a MiniDV camcorder without any cables to connect. One easy solution!



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antonauber HyTRON 50 Battery

Weighing a mere 31oz (880 grams) and packing 50 Watt-hours of energy - enough to operate a typical ENG camcorder for two hours, the HyTRON 50 is the most advanced lightweight battery in the industry.

- Made possible by recent advancements in a cell technology originally designed for the mobile computing industry, it incorporates nickel metal hydride cells that provide the highest energy density of any rechargeable cylindrical cell available. High performance is further assured through the integration of AntonBauer InterActive digital technology.
- Equipped with an on-board "fuel computer" which monitors energy input and output as well as critical operating characteristics and conditions. This data is communicated to the InterActive charger to ensure safety and optimize reliability.
- In addition, remaining battery capacity information is available by means of an LCD display on each battery and in the view-finder of the most popular broadcast & professional camcorders.
- Special low voltage limiter prevents potentially damaging overdischarge.

Specifications: 14.4 V, 50 WH (Watt Hours)
5-3/4" x 3-1/2" x 2-1/4" 1.9 lbs (88kg)
Typical runtime: 2 hours @ 25 Watts 3 hours @ 17 Watts

QUAD 2702/2401 Four-Position Power/Chargers

The lightest and slimmest full featured four position charger ever, they can fast charge four Gold Mount batteries and can be expanded to charge up to eight! They also offer power from any AC main, in a package the size of a notebook computer and weighing a mere four lbs! The 40 watt 2401 can charge ProPacs in two hours and TrnPacs in one. Add the Diagnostic/Discharge module and the QUAD 2401 becomes an all purpose power and test system. The 70 watt QUAD 2702 has the module and is the ultimate professional power system.

IDX NPH-50 50 Watt Nickel Metal Hydride Batteries

Packed with 50-watts of power, these batteries provide long run times, using them as you would a traditional NP-type battery. Equipped with IDX's proprietary SF technology, they can even be charged in existing Negative Delta V style chargers, like the Sony BCI-WD, or any IDX nicad battery charger.

Both batteries are identical except that the NP-H50DX adds a power indicator.

- High capacity NiMH cells • Standard thermal and short circuit protection, extra thermal fuse for safety, special plastic design for added strength.
- Environmentally safe • High efficiency/low temperature module • Capacity: 50Wh (13.2V/ 3.8Ah) • Camera run time: 115min @26 Watts)

NP-H50129.95 NP-H50DX 149.95

JL-2 PLUS 2-Position Multi-Format Charger/Power Supply

Universal charger/Power Supply. 2-channel sequential quick charger and power supply for Lithium-Ion, NP/BP-type NiCad and NiMH battery packs.

SONY 800 SERIES UHF WIRELESS MICROPHONE SYSTEMS



Consisting of 5 handheld and bodypack transmitters and 6 different receivers, Sony's UHF is recognized as the outstanding wireless mic system for professional applications. Operating in the 800 MHz band range, they are barely affected by external noise and interference. They incorporate a PLL (Phase Locked Loop) synthesized control system that makes it easy to choose from up to 282 operating frequencies, and with the use of Sony's pre-programmed channel plan, it is simple to choose the correct operating frequencies for simultaneous multi-channel operation. Additional features, like space diversity reception, LCD indicators, reliable and sophisticated circuit technology ensure low noise, wide dynamic range, and extremely stable signal transmission and reception. Ideal for broadcasting stations, film production facilities and ENG work.



SONY UVW-1200/UVW-1400A Betacam SP Player • Player/Recorder

The UVW-1200 and UVW-1400A are non-editing VCRs which deliver Betacam SP quality and offer features for a wide range of playback and recording applications. RGB and RS-232 interface make them especially ideal for large screen, high quality video presentation, scientific research and digital video environments.

- Ideally suited for work in computer environments, because RGB signals can be converted into component signals and vice versa with minimum picture degradation.
- 25-pin serial interface allows external computer control of all VCR functions based on time code information. Baud rate can be selected from between 1200 to 38,400 bps.
- Built-in Time Base Stabilizer (TBS) locks sync and subcarrier to an external reference signal as well as providing stable pictures. High quality digital dropout compensator further ensures consistent picture performance.
- Equipped with two longitudinal audio channels.
- Both read LTC Time Code and UB (User Bits). The UVW-1400A also generates LTC and UB (Free-Run/Rec-Run).
- Auto repeat of entire or a specific portion of the tape.
- Built-in character generator can display VTR status, time code, self-diagnostic messages, set-up menu, etc.
- Control of jog, shuttle, playback, record, pause, FF and REW and subcarrier to an external reference signal as well as providing stable pictures. High quality digital dropout compensator further ensures consistent picture performance.
- Composite and S-Video as well as component via BNCs which are switchable to RGB output. The UVW-1400A has two switchable sync connectors and a Sync on Green.
- Built-in diagnostic function and hour meter.
- Initial set-up menu for presetting operational parameters. Settings are retained even after power is turned off.



UVW-1600/UVW-1800 Betacam SP Editing Player • Betacam SP Editing Recorder

The UVW-1600 and UVW-1800 are the other half of the UVW series. They offer the superiority of Betacam SP with sophisticated editing features. They feature an RS-422 9-pin interface, built-in TBCs and Time Code operation. Inputs/outputs include component, Composite and S-Video. All the features of the UVW-1200/1400A PLUS—

- Optional BVR-50 allows remote TBC adjustment.
- RS-422 interface for editing system expansion.
- Two types of component output: via three BNC connectors or a Betacam 12-pin dub connector.
- Frame accurate editing is assured. Thanks to sophisticated servo control and built-in time code operation. In the insert mode of the UVW-1800, video, audio Ch-1/2 and time code can be inserted independently or in any combination.

PVW-2600/PVW-2650/PVW-2800 BETACAM SP PRO SERIES

Whenever versatility and no compromise performance is needed, there is only one choice. Legendary reliability and comprehensive support for its many users has established the PVW series as the standard in broadcast and post production. The PVW Series includes the PVW-2600 Player, PVW-2650 Player with Dynamic Tracking and the PVW-2800 Editing Recorder. They feature built-in TBCs, LTC/VTC time code operation and RS-422 serial interface. They also offer composite, S-Video and component video inputs and outputs. Most important they are built for heavy, every day duty.

- Built-in TBC's and digital dropout compensation assure consistent picture performance. Remote TBC adjustment can be done using the optional BVR-50 TBC Remote Control.
- The PVW-2600, PVW-2650 and PVW-2800 (generates as well) read VITC/LTC time code as well as User Bits. External time code. Regen/Preset, or Rec-Run/Free-Run selections.
- Built-in character generator displays time code or CTL data.
- Set-up menu for presetting many functional parameters.
- Two longitudinal audio channels with Dolby C-type NR.
- Recognizable monochrome pictures at up to 24x normal speed in forward and reverse. Color at speeds up to 10X.
- Two types of component connection: three BNC connectors or a Betacam 12-pin dub connector. They have composite and S-Video signals as well.



PVM-20S1WU 20-inch 16:9 Color Production Monitor

The PVM-20S1WU incorporates all of the superb features of Sony production monitors for 16:9 viewing in post-production and broadcast stations. It features multi-system compatibility, blue gun, underscan and H/V delay. It also offers flexible signal connections, a full range of optional functions and ease of operation.

- 16:9 aspect ratio CRT with dark panel for high contrast image reproduction • Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals • Beam Current feedback circuit for stability in the color balance
- Optional component serial digital interface kits BKM-101C (video)/102 (audio) available • Switchable aspect ratio (4:3 and 16:9) • Color temperature D65, D93 or user preset (3200K to 1000K) selectable
- On screen display for adjustment/operation • User preset function
- Underscan, Blue Only and H/V delay mode available
- Auto chroma/phase setup
- Accepts external sync
- Digital 3-line comb filter • Auto/Manual degaussing
- Mountable into an EIA standard rack with the optional SLR-103 slide rail kit.



B&H SPECIAL \$999

PVM-14M2U/14M4U & 20M2U/20M4U 13-inch and 19-inch Production Monitors

Sony's best production monitors ever, the PVM-M Series provide stunning picture quality, ease of use and a range of optional functions. They are identical except that the "M4" models incorporate Sony's state-of-the-art HR Trinitron CRT display technology and have SMPTE C phosphors instead of P22.

- HR Trinitron CRT enables the PVM-14M4U and 20M4U to display an incredible 800 lines of horizontal resolution. The PVM-14M2U and 20M2U offer 600 lines of resolution. M4 models also use SMPTE C phosphors for the most critical evaluation of any color subject.
- Dark tint for a higher contrast ratio (black to white) and crisper, sharper looking edges
- Each has two composite, S-Video and component input (R-Y/B-Y, analog RGB). For more accurate color reproduction, the component level can be adjusted according to the input system. Optional BKM-101C (video) and BKM-102 (audio) for SMPTE 259M serial digital input.
- Beam Current Feedback Circuit
- 4.3/16.9 switchable aspect ratio.
- True multi-system monitors they handle four color system signals: NTSC, NTSC 4.43, PAL & SECAM
- External Sync input and output can be set so that it will automatically switch according to the input selected.
- Switchable color temp. 6500K (broadcast), 9300K (pleasing picture). User preset (3200K to 1000K).
- Blue gun, underscan and H/V delay capability
- On-screen menus for monitor adjustment/operation.
- Parallel remote control and Tally via 20-pin connector.



PROFESSIONAL VIDEO TAPES



Professional Grade VHS		PG-30	2.29	PG-60	2.39	PG-120	2.59
Broadcast Grade VHS Box		BGR-30	3.49	BGR-60	3.99	BGR-120	4.69
H471S S-VHS Double Coated		ST-30	5.99	ST-60	7.49	ST-120	7.99
M221 Hi 8 Double Coated							
Metal Particles		Metal Evaporated					
P630HMP	4.49	E630HME	7.69				
P660HMP	6.29	F660HME	10.49				
P6120HMP	8.49	E6120HME	13.99				
M321SP Metal Betacam (Box)							
05S	10.99	10S	11.99	20S	12.99		
30S	13.99	60L	20.99	90L	32.99		
DP121 DV PRO							
12M (Med)	7.49	23M	8.79	33M	10.99		
63M	13.99	66L	22.50				
94L	30.99	126L	39.99				

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Broadcast Quality Hi8 Metal Particle		P6-30 HM BQ		5.39	P6-60 HM BQ	6.09
		P6-120 HM BQ		7.99		
P/P PLUS VHS		T-30 Plus		1.69	T-60 Plus	1.99
		T-120 Plus		2.19	T-160 Plus	2.69
HGXT-60 Plus		HGXT-120 Plus		2.99		
HGXT-160 Plus				3.99		

BQ Broadcast Quality VHS (Box)		T-30 BQ	3.89	T-60 BQ	3.99	T-120 BQ	5.99
BQ Professional S-VHS (In Box)		ST-31 BQ	6.79	ST-62 BQ	6.99	ST-126 BQ	13.99
Betacam SP		B30MSP	13.49	B60MLSP	19.99	B90MLSP	27.95

Panasonic

Mini DV Tape		AY OVM-30	8.49	AY OVM-30 (10 Pack)	ea. 5.99
		AY OVM-60	7.49	AY OVM-60 (10 Pack)	ea. 6.99
		AY-DVM80	12.99	AY-DV123EB	20.95
DVCPRO		AJ-P12M (Medium)	7.99	AJ-P24M	9.99
		AJ-P33M	11.49	AJ-P66M	19.49
		AJ-P66L (Large)	20.99	AJ-P94L	29.99
		AJ-P126L			38.95

SONY

Hi-8 Professional Metal Video Cassettes		P6-30 HMPX	4.79	P6-30 HMEX	8.19
		P6-60 HMPX	6.79	P6-60 HMEX	11.99
		P6-120HMPX	8.99	P6-120HMEX	15.99

PR Series Professional Grade VHS		T-30PR	2.39	T-60PR	2.59	T-120PR	2.79
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BA Series Premier Hi-Grade Broadcast VHS (In Box)		T-30BA	3.69	T-60BA	4.19	T-120BA	4.99
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MQ Master Quality S-VHS (In Box)		MQST-30	7.49	MQST-60	7.69	MQST-120	7.99
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BRS 3/4" U-matic Broadcast Standard (In Box)		KCS-10 BRS (mini)	8.99	KCS-20 BRS (mini)	9.99
		KCA-10 BRS	8.99	KCA-20 BRS	9.49
		KCA-30 BRS	10.69	KCA-60 BRS	14.99

XBR 3/4" U-matic Broadcast Master (In Box)		KCS-10 XBR (mini)	9.79	KCS-20 XBR (mini)	11.29
		KCA-10 XBR	10.29	KCA-20 XBR	11.79
		KCA-30 XBR	13.29	KCA-60 XBR	17.39

KSP 3/4" U-matic SP Broadcast (In Box)		KSP-S10 (mini)	10.49	KSP-S20 (mini)	12.29
		KSP-10	10.99	KSP-20	12.69
		KSP-30	14.29	KSP-60	18.59

BCT Metal Betacam SP Broadcast Master (Box)		BCT-5M (small)	11.99	BCT-10M (small)	12.49	
		BCT-20M (small)	12.99	BCT-30M (small)	13.49	
		BCT-30M (small) (10 Pack)	ea.	12.99		
		BCT-30ML	14.99	BCT-60ML	21.99	
		BCT-90ML			30.99	

Mini DV Tape		OVM-30EXM w/Chip	12.79	DVM-60EXM w/Chip	16.99
		DVM-30EX "No Chip"	11.99	DVM-60EX "No Chip"	12.99
		DVM-30PR "No Chip"	7.99	DVM-60PR "No Chip"	9.75

Full Size DV Tape with Memory Chip		DV-120MEM	24.99	DV-180MEM	26.99
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PDV Series Professional DV/CAM Tape		PDVM-12ME (Mini)	14.49	PDVM-22ME (Mini)	15.19
		PDVM-32ME (Mini)	15.49	PDVM-40ME (Mini)	15.99
		PDV-94ME (Standard)	32.99	PDV-121ME (Standard)	37.99
		PDV-184ME (Standard)	44.95	PDVN-64N	24.95
		PDVN-124N	31.95	PDVN-184N	39.95



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Avid/IBM Xpress DV On IntelliStation

Avid Xpress DV on IntelliStation is a turnkey digital video solution designed to give professional content creators in corporations, education and government institutions, the power to communicate with video. The solution consists of IBM's award-winning IntelliStation M Pro workstation, and Avid's Xpress DV digital video content creation software. Simply plug your DV camera into the IntelliStation workstation, launch Xpress DV and begin assembling a video. Using the high-powered and reliable IntelliStation M Pro and intuitive Xpress DV software, you'll be creating professional-looking video and multimedia content for a wide variety of uses including sales and marketing videos, training videos and web-based teaching solutions-in no time.



The Hardware

The completely redesigned IBM IntelliStation M Pro features a high-speed Intel 840 chip set, 733/933 MHz Pentium III processor, 133 MHz Front Side Bus, a Canopus DV Raptor, and a Matrox display card. Designed with the Intel 840 chipset, the IntelliStation M Pro supports high-speed ATA-66 disk drives, as well as up to 1GB of high-performance ECC memory. The solution is pre-installed with the Matrox millennium G400 4X AGP graphics card (capable of 1GB/per second transfers) with 16MB of on-board memory, and the Canopus DV Raptor Adapter IEEE1394 interface for DV I/O. It also includes two Ultra2 SCSI hard drives: a 9 GB drive for the operating system and programs, and an 18.2GB drive for capturing data.

The Software

Avid Xpress DV software combines powerful video and audio editing tools, digital mastering, and extreme ease of use. Xpress DV captures and edits DV video, adds effects, mixes audio, and outputs the finished results over IEEE1394 FireWire for impressive video. It transcodes the content to all major new media formats: MPEG-1 (for CD-R), MPEG-2 (for DVD-R/DL), QuickTime or AVI for computer based presentations or for streaming on the web. As a member of the Avid Xpress Family, The Xpress DV offers the Avid graphical user interface (GUI) based on the 3.1 version, offering powerful audio and video tools including:

- 4 tracks of nested video with single track transitions
- 4 tracks of audio with real-time mixing
- Batch digitizing, and RS-422 deck control
- Integrated EDL support with built in logging
- 22 levels of undo/redo, making changes, painless!
- 22 levels of undo/redo, making changes, painless!
- Tight timeline with precise timecode editing
- Real-time 3-band EQ, and rubber band gain adjustments.

- 32 and 48 kHz sampling rate, with down sample to 22 and 11 kHz for multimedia
- Over 50 transitions, including dissolves, motion & color effects, superimposition, horizontal and vertical wipes, chroma and luma keys, picture in picture, flips, flops, resizes, spins, peels, pushes, squeezes, and many more.
- Integrated, anti-aliased titling tool
- Export to MPEG1, 2, Microsoft Windows Media (ASF), AVI, QuickTime, or RealMedia

The Service

IBM is maintaining a server where you can obtain disk space for approximately five hours of compressed streamed video, where your client can download your video from a customized web page, at no charge to you for the first three months (after three months it is fee based). This service eliminates small businesses from having to devote their own resources to set up and maintain their own servers.

- IBM IntelliStation M Pro (6868-92U/94U).
- 733/933 MHz Pentium III processor.
- 256MB Full Speed ECC memory.
- Matrox Millennium G400 4X AGP with 16MB of RAM.
- Ultra2 SCSI 9 GB (7200 rpm) drive for operating system.
- 18.2GB drive for video and audio storage.
- CD-ROM (20x-10-48x)
- Windows NT 4.0 with Service Pack 5.
- Complete system integration and testing.

All for the Unbelievable price. (733 MHz) 6895.00
 or (933 MHz) 7699.00

Avid MediaDrive rS Plus

The MediaDrive rS Plus is the latest in the line of leading edge storage products from Avid. Designed exclusively for AV professionals, the MediaDrive rS Plus is available in 9 and 18GB capacities and utilizes the highest performance 10,000 rpm drives on the market today. Available in a stackable model with a rack-mount option, the MediaDrive rS Plus incorporates QuietDrive, a revolutionary sound dampening technology developed by Avid. The MediaDrive rS Plus 10K drives provide Avid customers with a very affordable, versatile, high-performance storage solution.

- Using 10,000 rpm drives, MediaDrive rS Plus offers 40% higher performance than 7200 rpm drives. The increase in data transfer rates results in fewer drives necessary to achieve higher resolutions. Real-time AVR 75 can be achieved on a single rS Plus drive. Striping only two rS Plus drives across one dual channel controller can provide dual stream AVR 77 quality throughout the entire drive
- Built-in thermal circuitry controls the speed of the fan for efficient cooling and an external indicator helps to protect your drive and critical data by signaling high temperature conditions



- QuietDrive technology reduces drive noise by up to 15 dB. This allows finer audio editing and lower operator fatigue
- An innovative vertical interlocking stacking feature provides the option to physically latch striped sets together permanently or temporarily
- With its own power and SCSI connectors (conforming to fast and wide SCSI standards), the rS Plus drive is ready to travel down the hall or around the world. You can hook up the rS Plus drive in any studio. No docking system is required
- Optional rack mount kit adds great flexibility by allowing two MediaDrive rS units to be mounted in a 2U rack format. Quick release allows drives to be removed easily for transporting or replacing with new project drives

Configuration

- MediaDrive rS enclosure, 3.5 self-contained (power, cooling and connections) stackable unit, SCSI-2 68-pin connection
- Rack mountable with MediaDrive rS rack mount option kit

rs-13 "MediaDrive" External LVD 13GB Drive	\$1049.95	is-18 "MediaDrive" External LVD 18GB Shuttle	\$949.95	is-18 "MediaDrive" Shuttle (Older Station)	\$1149.95
rs-36 "MediaDrive" External LVD 36GB Drive	\$1599.95	is-36 "MediaDrive" External LVD 36GB Shuttle	\$1499.95	"MediaDrive" rs Rack Kit (2 Drives)	\$99.95

SONY ES-3 EditStation



The Sony ES-3 EditStation is an extremely flexible, powerful and high picture quality non-linear video editing system. Its self-explanatory yet sophisticated editing interface is easy to use even for newcomers to the non-linear editing realm. Its open architecture also supports popular third-party software for graphics, paint, text, and effects. The Sony ES-3 EditStation also offers the unique Sony "ClipLink" interface, allowing you to transfer only the clips you want for editing, since The Sony DSR-300/500 cameras mark the in/out points of each shot and a still frame of every in-point called the "index picture" is recorded on the cassette memory of the DVCAM tape.

- The video and audio files stored on the disk drive of the ES-3 system can easily be converted to AVI or QuickTime file format. Allowing you to create multimedia materials for CD-ROMs, or to be streamed to the web.
- Slow and fast motion are available. The playback speed for each clip can be set to be played back at the desired speed.
- Edits on the ES-3 Timeline are converted to the Sony EDL format and displayed in a EDL window. Additionally the EDL can be printed out or saved to disk.
- Dual monitor display is available for more efficient operation.
- The ES-3 can be switched to operate in either 4:3 or 16:9 wide screen aspect ratio.

Editor

You start with the Editor for uploading to create both video and audio clips. The Editor consists of the live picture window, In/Out point and duration windows, video/audio 1/2/3/4 selection buttons for uploading, a record clip button and VCR control functions. Using the Editor, you can upload video (including live upload) with or without VCR control.

ClipBin

This is where you store program material designated as clips. You can group clips and customize the ClipBin according to your needs. Two main display modes: picture mode and text mode. In picture mode you can select six different sub modes:

Timeline

The timeline is where you build your project. Each track may hold video, graphics, titles or audio. To build your project, clips (from the ClipBin), effects and transitions are dragged and dropped onto the timeline in sequential order. There are various timeline views available. You can select any items displayed such as Index Pictures of the head or tail of a clip, marker, name, duration, reel number, mark in/out and many others.

Trim Editor

A Trim Editor is available for precise trimming on the timeline. It is opened as an independent window, with the video of the out point of the "from" clip and the in point of the "to" clip displayed. Both single and dual trimming can be performed. Clips can also be played and trimmed directly in the Clip Monitor which is selected from the edit menu.

Audio Editor

With the Audio Editor, eight channels of assigned audio can be monitored in real-time. Each input channel can be assigned to any track in the timeline. Each channel has its own peak meter, level fader, level trim, phase control, three band EQ, panning and filters (low cut, high cut, echo, etc.). Volume and pan are processed in real-time and can also be modified in real-time using the ESBK-7011 Control Panel. Audio level and panning for each clip can be controlled directly on the timeline with the rubber band editing function. Each track has its own rubber band control.

Control Panel

In addition to controlling non-linear functions via mouse and keyboard, also includes the ESBK-7011 Control Panel for conventional operation. Combine familiar linear techniques such as jog/shuttle control, effects transitions and audio fading with convenience of non-linear editing.

Breakout box

The breakout box provides easy interfacing to analog or digital equipment. It offers analog composite, component and S-Video input and output. For digital video, an i.LINK input/output is standard, and OSDI(SDTI) can be activated via optional software and dongle. For audio, four input channels of XLR-balanced analog audio (two out) and AES/EBU digital audio I/O (XLR-balanced) are provided. Two RS-422 ports are provided for deck control. Finally, the ES-3 is also equipped with a genlock input and blackburst output for reference.

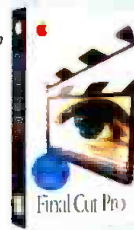
Starting at \$9,995

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Final Cut Pro

Professional Editing, Compositing and Effects Software for Macintosh

A breakthrough in non-linear video. Final Cut Pro combines professional editing, compositing, and special effects in one powerful application - turning a Power Mac into a powerful workstation. Designed from the ground up for DV, Final Cut Pro offers the easiest way to transfer material from DV sources to your hard disk; edit, composite, and add effects to the video and audio; and play the results. It has an advanced feature set that professionals will love, yet it's also easy enough for novice video producers who are just discovering DV and FireWire. Final Cut Pro supports DV and all QuickTime formats, including M-PEG and web-ready streaming video. Provides plug-and-play capabilities with most digital video cameras. Just connect your computer to a DV camcorder, capture video and edit it with sophisticated tools. Create multiple layers of video using text, graphics, or additional video elements. Each layer can be still, or animated along a user-defined path using tools such as Bezier curves with acceleration control. Then you can output your results for TV, videotape, QuickTime movies, or the Web.



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Bogen Photo	63	134	201-818-9500	bogenphoto.com
Broadcast Microwave Serv	94	148	858-560-8601	bms-inc.com
Broadcast Video Systems	119	164	905-764-1584	bvs.on.ca
Calrec Audio	17	108	441422842159	calrec.com
Columbine	21	110	303-237-4000	cjds.com
CPI/Eimac	83	141	650-592-1221	eimac.com
Digital Media Net	13, 57		714-424-6100	digitalmedianet.com
Discreet Logic	43	115	800-869-3504	discreet.com
DNF Industries	119	165	818-252-0198	dnfcontrols.com
D P S	11	107	606-371-5533	dps.com
EMCEE	32	117	570-443-9575	ABS-TV.com
ESE	129	168	310-322-2136	ese-webcom
Evertz Microsystems	137	173	905-335-3700	evertz.com
Extron Electronics	9	106	714-491-1500	extron.com
Faroudja Laboratories	67	136	408-735-1492	faroudja.com
Folsom Research	47	124	888-414-SCAN	folsom.com
Forecast Consoles	121	166	516-253-9000	forecast-consoles.com
Fujinon	87	143	800-553-6611	fujinon.co.jp
Gepco	123	167	800-966-0069	gepco.com
Harris Corp./Broadcast Div.	3	104	800-4HARRIS	harris.com
IBUS	93	147	888-307-7892	ibus.com
Industry Click	99	151	609-371-7759	digibid.com
Itelco	61	150	303-464-8000	itelco-usa.com
Keywest Technologies	115	162	913-492-4666	keywesttechnology.com
KTech Telecommunications	85	129	818-361-2248	ktechtelecom.com
Leader Instruments	58-59		800-645-5104	LeaderUSA.com
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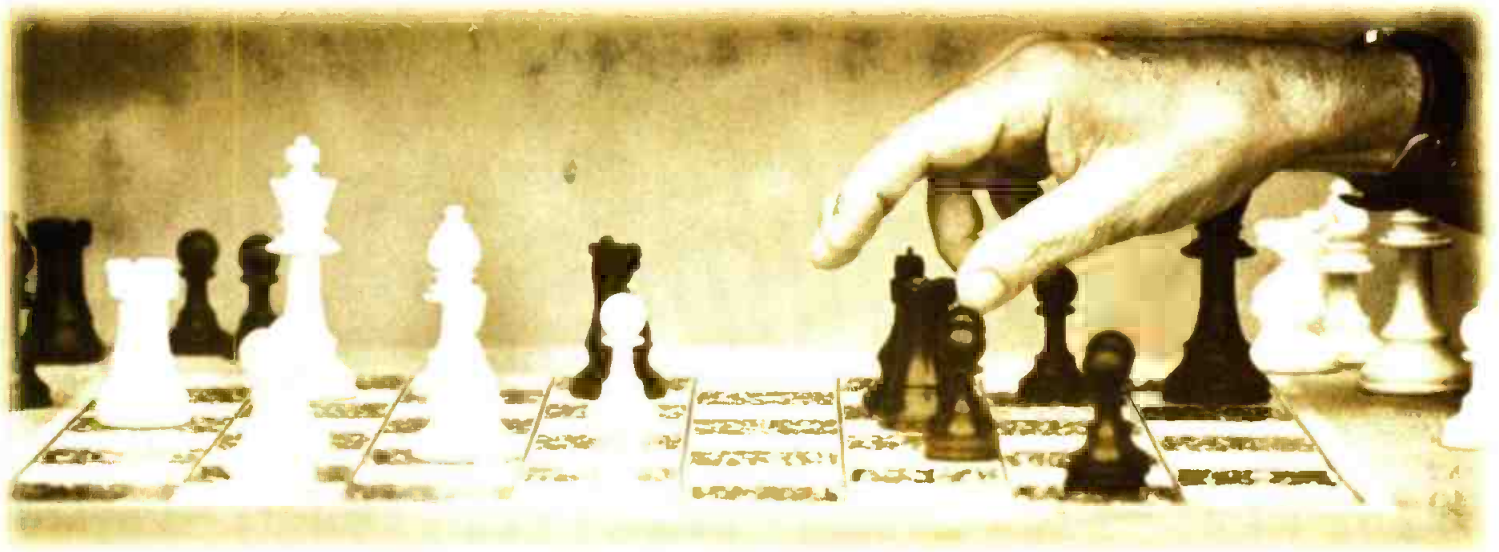
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