

BROADCAST[®] engineering

An INTERTEC Publication

November 15 1994/\$5.00

des
ers Guide
information

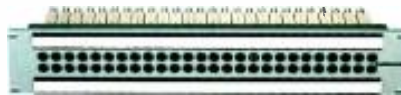




Look who's going to improve your image.

You've heard a lot about Switchcraft, a leading manufacturer of quality audio components for more than 40 years. Now, see what we can do. Because Switchcraft can supply you with video components, too.

Look to us for standard video broadcast equipment, all made with the reliability and high quality you expect from Switchcraft. When it comes to our



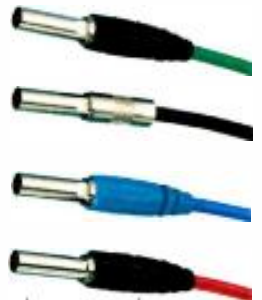
video insulated patch panels, you'll find our eye for detail is second to none.

Each one can accommodate up to 26 jacks for a variety of requirements. Dual jacks provide a normal-through signal path without the use of looping plugs or patch cords. And, each panel comes with large designation strips for your own labeling.

Our video patch cords are available in popular lengths and colors – all built for efficient video signal transmission. Our patch cords come with rugged metal handles and optional rubber “boots” for a better grip. The “boots” offer enhanced flex relief and are available in your choice of colors – red, black, green or blue. Switchcraft is dedicated to making your studio time as productive as it can be.

So whether you're thinking video or audio components, think Switchcraft. We've always done wonders with sound. Now we can improve your image, too.

For more detailed information, phone or FAX our Marketing Communications Department and ask for New Product Bulletins 426 and 427.



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pro-bel

At the Heart of your System



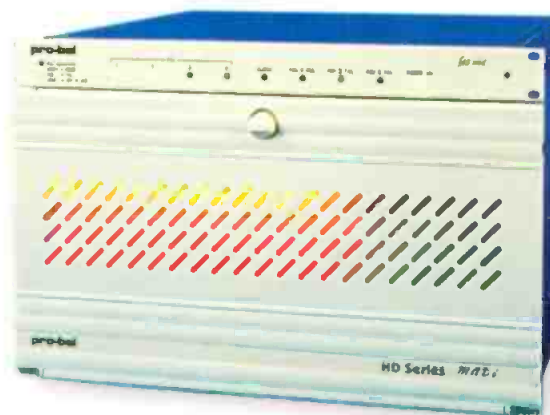
Digital Test Equipment



Signal Processing & Distribution



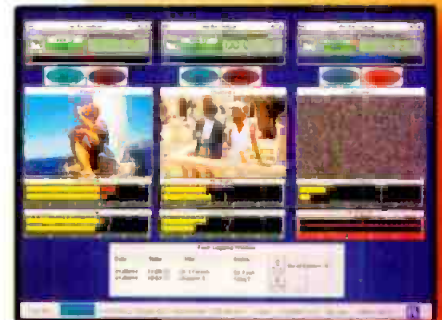
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Contents

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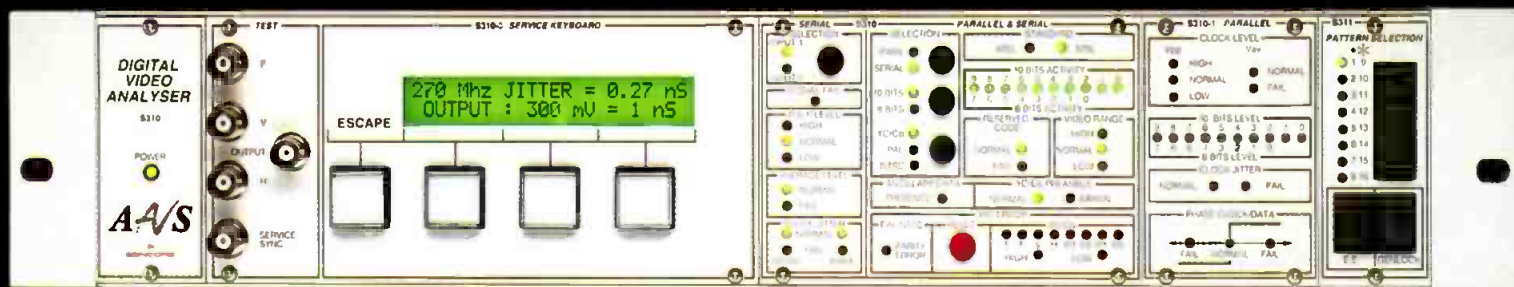
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- 4 Editorial**
By Carl Bentz
 Making the World Smaller...
- 6 Manufacturer Address Directory**
 If you ever need the address, telephone number and/or fax number to contact a company, this directory provides the most up-to-date information.
- 49 Product Directory**
 A listing of more than 1,500 broadcast manufacturers makes available to you the companies that offer the equipment you need. The blue listings indicate advertisers in this issue.
- 49 Audio Products**
- 58 Video Products**
- 82 Radio Products**
- 88 Computer & Animation Products**
- 90 Test & Measurement**
- 92 Ancillary & Support Equipment**
- 97 Services**
- 100 Dealers/Distributors**

ON THE COVER:

The Buyers Guide is a comprehensive directory for radio and TV broadcasters. This special *BE* publication can be used as a guidebook whenever an equipment purchase is being planned. Keep this annual publication on your desk for reference throughout the year. (Design by Kim Bracken, art director.)

Digital Video Testing Just Got Easier . . .

The S310 Digital Video Analyser is the only patented, all-in-one analyzer designed to take the frustration out of digital video testing. The S310 performs real time, on-line tests of key signal parameters for both composite and component, serial or parallel digital video, without complex and time consuming interpretation.



With The S310 Digital Video Analyser

PATENTED

With over 18 different, easy-to-use tests and measurements, the S310 provides you with critical performance data such as:

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- Parallel clock jitter
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- Signal levels
- DC offset
- TRS analysis
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- Analog signal output
- And many more

In addition, the S310 is equipped with:

- ◆ User-selectable alarm thresholds that provide out-of-limit parameter warnings.
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- ◆ A comprehensive CCIR 601 component pattern generator with 34 test patterns, and exclusive error introduction.

Take the frustration out of your digital video testing by calling **1-800-769-AAVS** to schedule a demonstration, reserve an evaluation unit, or to order a FREE video tape.

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Making the world smaller...

Welcome to the 1995 *Broadcast Engineering* Buyers Guide. Continuing the tradition, this 14th reference issue contains a wealth of information regarding manufacturers, distributors and industry associations for the broadcast, cable and production environments.

The Manufacturer Address Directory includes data regarding almost 1,500 companies from 26 different countries. When the headquarters of a company is not in the United States, both the foreign and domestic addresses are included.

In some cases, advertisers have elected to include additional sales offices. In others, they preferred to include a comment about their company or product line. A ♦ preceding a name indicates an advertiser.

For those wishing to make telephone or fax contact with companies outside the United States, we have included country codes and city codes, where known. Keep in mind that when calling an international number, typically a '0' preceding a city code should not be dialed.

The Product Directory includes more than 6,700 entries in 217 product categories within seven major sections — Audio, Video, RF, Computer, Ancillary, Test/Measurement and Services.

In Audio, Video and RF, the products are grouped according to function — acquisition, signal processing, presentation, etc. In all other sections, categories are arranged alphabetically. In some categories, one or more letters or numbers permit division of the category into more precise subgroups. Advertisers within the entire Product Directory are highlighted in blue.

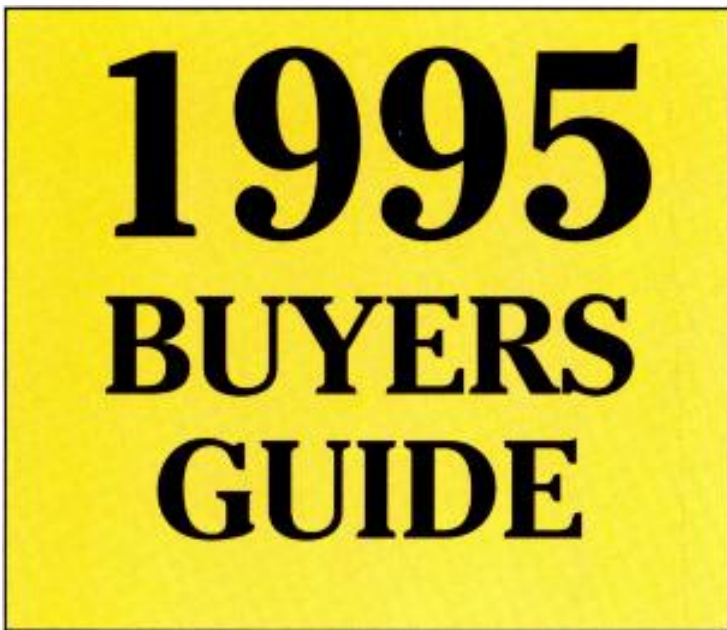
This issue also brings back a listing of dealers and/or distributors of broadcast and production equipment. They are listed alphabetically by state.

The final section of the 1995 Buyers Guide presents a number of the professional organizations associated with the broadcast, cable and production industries. The telephone numbers provided for ITVA and SBE chapters are the latest information possible.

Thank you for helping *Broadcast Engineering* continue the tradition of serving the industry in a first-class manner. And as the grid structure for the Information Superhighway gains size and strength, we hope you're a frequent passerby.



Carl Bentz
Directory Editor



NIKON'S NEW ENG LENSES ARE MAKING SMALL NEWS

Smaller Size Smaller MOD Smaller Price

S15X8.5B1-III



Nikon's two new ENG lenses, the S15x8.5B1-III and the S9x5.5B1-II are lighter, smaller and incorporate an internal focus system for greater flexibility and ease of operation. Both boast aspheric lens technology for high performance with minimal chromatic aberration.

The S15x8.5B1-III Standard ENG lens is the smallest, lightest and most compact in its class, and has a built-in 2.2x extender which gives you 280.5mm, the longest focal length in its class and a Nikon exclusive. Add to that a convenient zoom speed adjustment knob, Nikon's exclusive user adjustable zoom torque and the shortest MOD in its class, just 0.55m (22"), and you have one of the most

S9X5.5B1-II



versatile lenses available anywhere, at any price.

The S9x5.5B1-II also features internal focus, adjustable zoom speed and zoom torque. And the body and servo have been ergonomically redesigned for maximum comfort. With the highest zoom ratio (9x) and wide angle of 5.5mm (77.3°) this super wide angle lens meets today's new digital demands.

To learn more about the value of owning TV Nikkor lenses and our overnight loaner lens service, call 1-800-52-NIKON or (908) 758-0308 for our brochure. Or write to Nikon Electronic Imaging, 5775 Lindero Canyon Road, Westlake Village, CA 91362.

Manufacturers Address Directory

A

Aarmor Case Co
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616-374-5431; 800-722-5763
Fax: 616-374-8686

◆ **AAVS/Advanced Audio Visual Systemes**

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Montreuil France F-93100
+33(1) 4857-2164
Fax: +33(1) 4857-3358



◆ **AAVS/Sencore**
3200 Sencore Drive
Sioux Falls SD 57107
605-339-0100; 800-769-2287
Fax: 605-335-6379

Advanced Audio Visual Systems designs, manufactures and markets a wide variety of specialized products for the broadcast and professional video industries. These include the S310 All Format Digital Video Analyzer, the S90 Video Image Multiplexer and EVA, an automation package for network station automation. The S310 is a modular test system designed to performance test and troubleshoot digital video systems. The S310 is compatible with composite or component formats and has both serial and parallel inputs. The S310 provides a quick 'go/no go' test as well as in depth information on all signal parameters.

ABC Digital

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◆ denotes an advertiser in this issue. See the advertiser index for more information.

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Fax: 415-365-3057

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Fax: 814-238-1339

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Fax: 416-151-3777

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510-770-9899; 800-863-ADDA
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ADM Systems

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810-524-2100
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702-896-1858; 800-782-2321
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John P Allen

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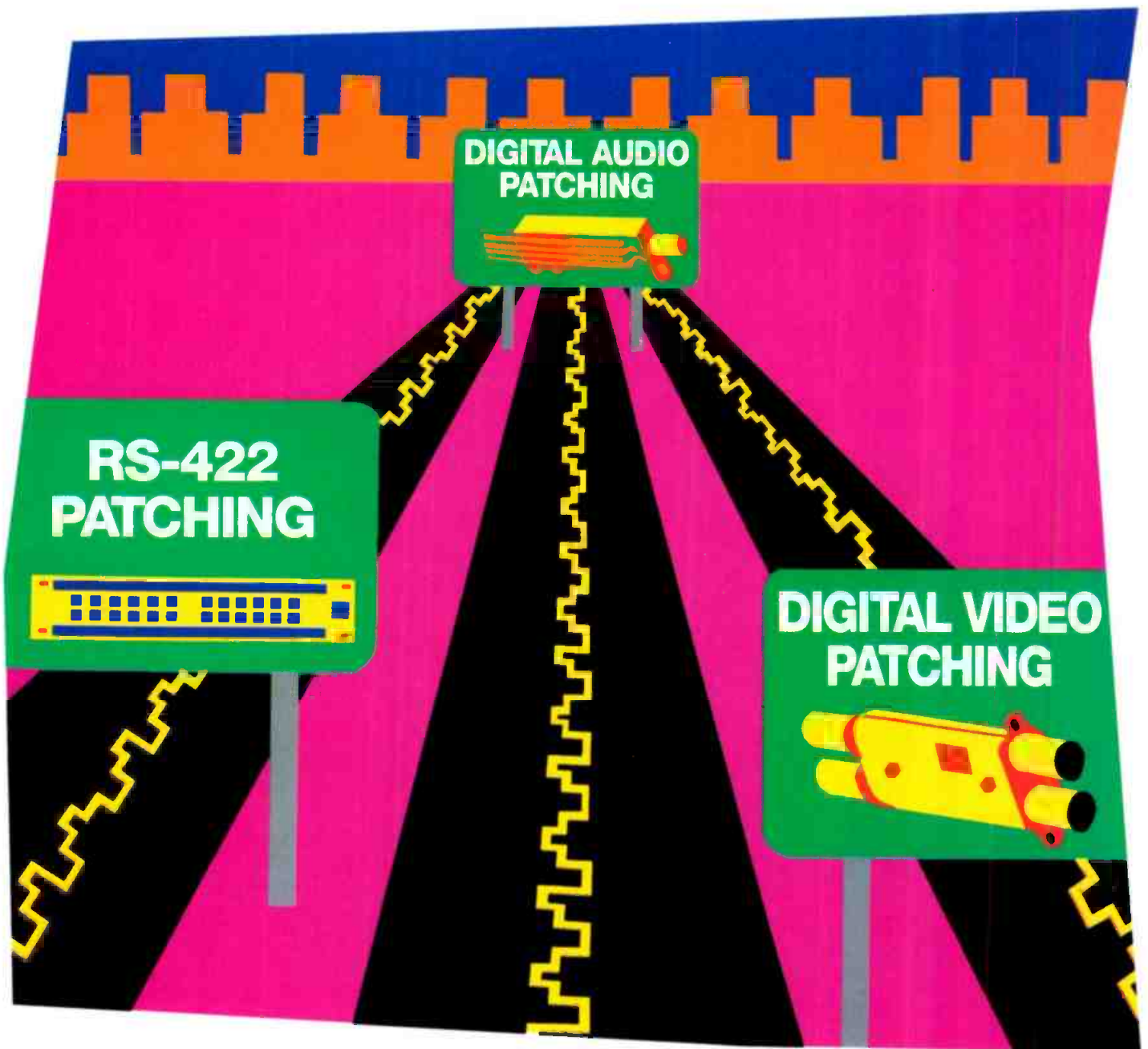
12450 Galveston Road
Webster TX 77598
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Fax: 713-486-6562

Alpha Audio Acoustics

Acoustical Solutions Inc
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Fax: 804-346-8808

◆ **Alpha Image Ltd - Dynatech**

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Fax: +44 (635) 528387



Three-Way Access To The Digital World.

Whether it's digital audio, digital video or machine control between VTRs and edit controllers. ADC's digital patch panels provide for the access, monitor and test of digital circuits throughout your studio or station.

Digital Video Panels

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ADC Patch By Exception bays allow you to cost-effectively increase the number of ports available for your edit controllers and handle data applications up to 20 Mb/s, including 10 Mb/s Ethernet, T1 and ISDN.

For more information on ensuring the quality of your digital signal with ADC's full line of digital patching products, circle the reader service number below or call us at 1 800 726-4266.



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Alpha Wire Corp
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Elizabeth NJ 07207-0711
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Fax: 908-925-7429

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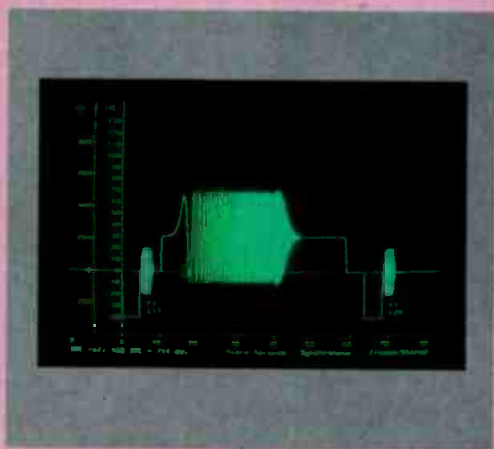
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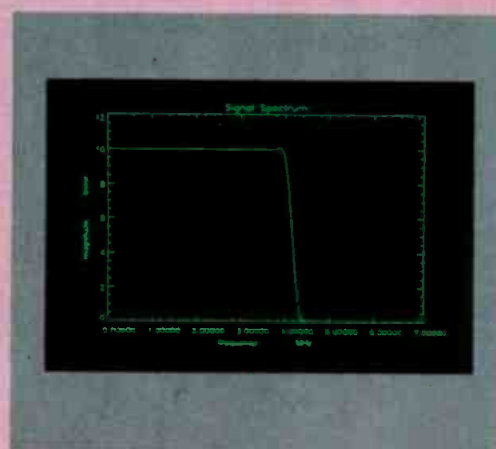
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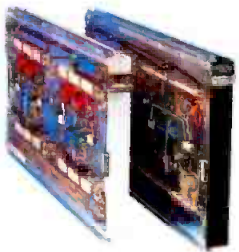
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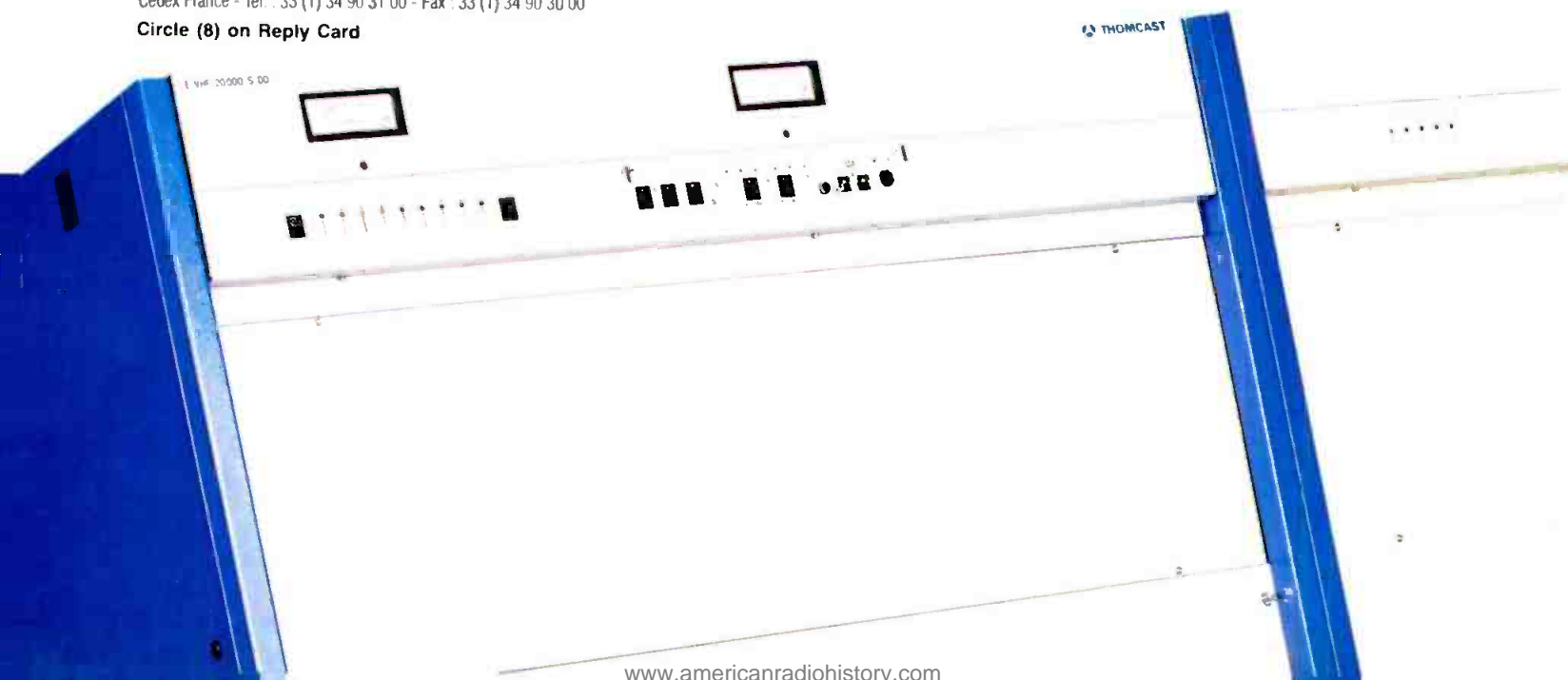


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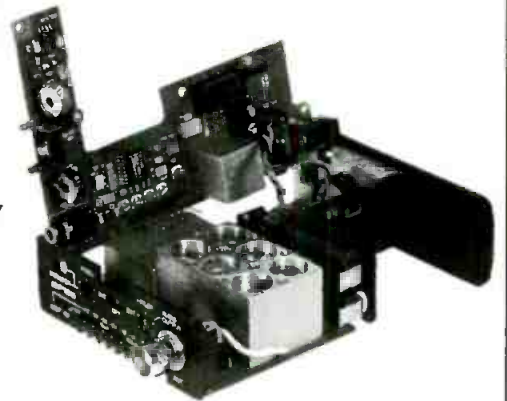
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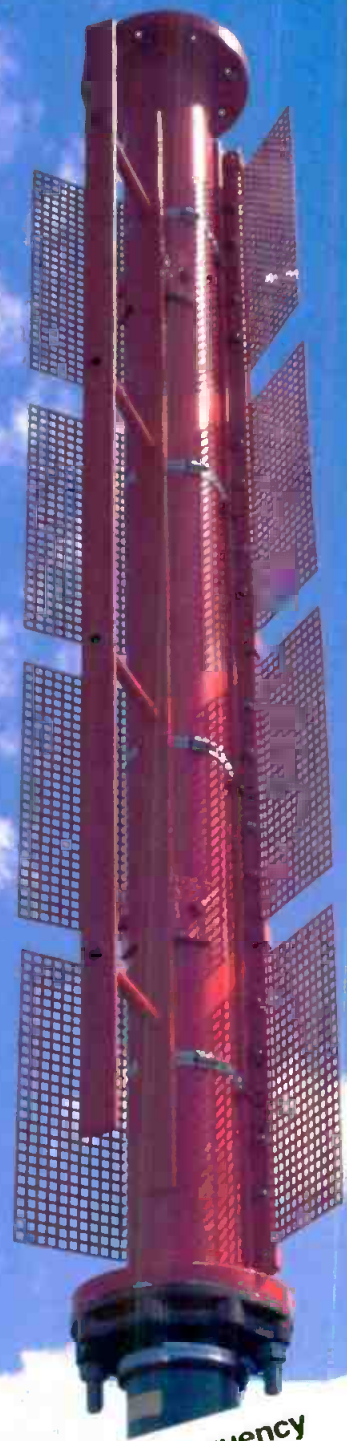
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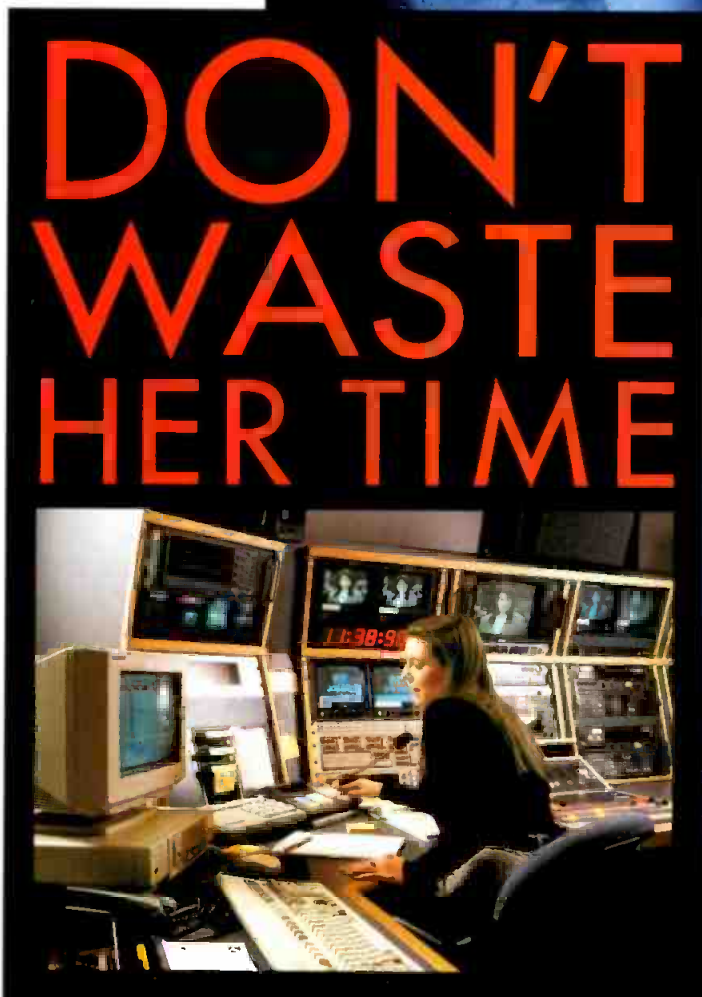
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Dana McDaniel can tell you anything you want to know about broadcast automation. But make it quick, ok?

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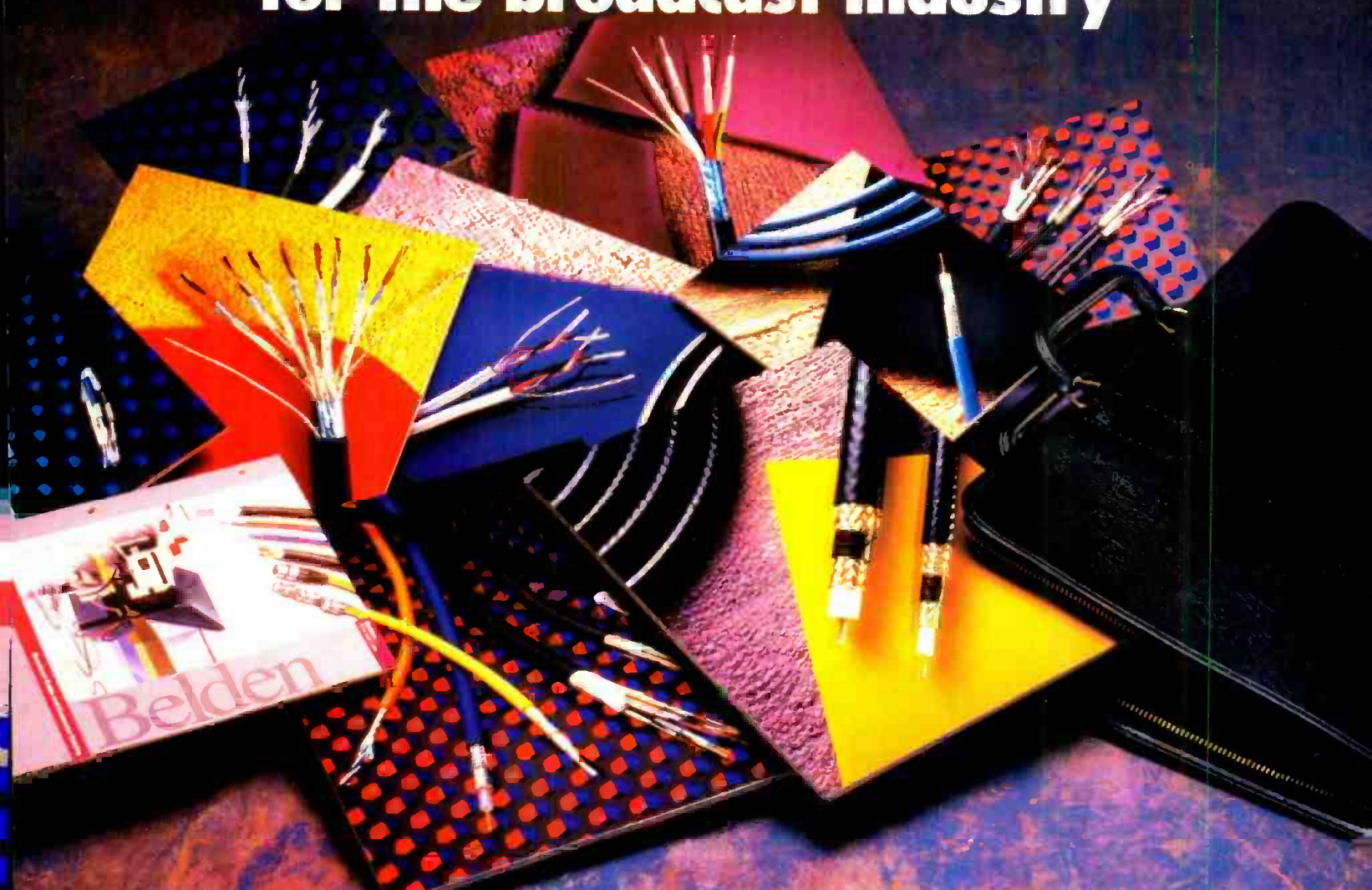
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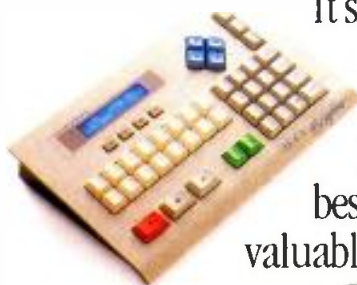
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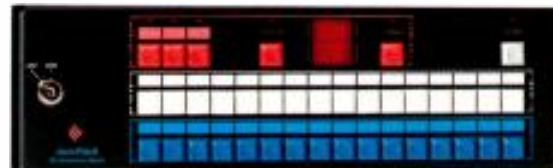
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Sigma Electronics
Sound Tech
Spectra Sonics
Studer Professional Audio
Studio Technologies
Target Technology
TASCAM
Tekniche



Telect
Tel-Test
TOA Electronics
Utah Scientific - Dynatech
Valley Audio Products
Varian Microwave Eqpt Products
Video Accessory
Videoquip Research
Videotek
Viewsonics
Vortex Communications
Ward-Beck Systems
Wheatstone
Whirlwind
Yamaha
Yamashita Engineering

Routing Switchers

Audio signal distribution; includes A/V combination systems, excludes video-only.

AAVS/Advanced Audio Visual Systems

ADC Telecommunications
Adrienne Electronics
Amtel Systems
Arrakis Systems
Asaca/ShibaSoku
Audio Intervisual Design
AutoPatch/XN Technologies
BEC Technologies
Benchmark Media Systems
Biamp Systems
Broadcast Video Systems
BSM/West Starr Int
BTS Broadcast Television Systems
Burk Technology

Burst Electronics
C4 Audio Systems
Conex Electro Systems
Crestron
Crown International
Datek
Dav Tronics
Di-Tech
Drawermer/QMI
DTL Broadcast
DYNAIR Electronics
Dynatech Video Group
Energy Plus
Extron Electronics
For-A
FSR
G Prime
GEE Broadcast Systems
Gefen Systems
Grass Valley Group
Group One
Harrison by GLW
Henry Engineering
Henry Engineering
IGM Communications
Image Video/Div of 1077541 Ontario
Inline
International Tapetronics
IRP Professional Sound Products
IRT Electronics
Ivie Technologies
J-Lab
JNS Electronics
JT Communications
Kaitronics
Kramer Electronics
Leitch
Lightwave Systems
Link Electronics
Logitek Electronic Systems
The Management
McCurdy Radio Industries
Multidyne
Georg Neumann
Nova Systems
NTP Elektronik
NVision
Ogenic Technologies
Opamp Labs
Pacific Radio Electronics
Pacific Recorders & Engineering
PESA Switching Systems
Philip Drake Electronics
Photomart Cine-Video
Practel International
Pro-Bel
ProTech Audio
QMI
Radio Design Labs
Ram Broadcast Systems
Ramko Research
Rane
Richmond Sound Design
Sandar Electronics
SAV
Scantex Labs
SCV Audio
Seem Audio
Shintron
Siemens Osterreich/Audio & Video
Sierra Automated Systems Eng
Sierra Video Systems
Sigma Electronics
Sony Business & Professional Group
Studer Digitec
Target Technology
Tektronix



Telect
Tel-Test
360 Systems
Titus Technological Labs
TMT electronics
Utah Scientific - Dynatech
Videoquip Research
Vistek Electronics
Vortex Communications



Wohler Technologies

Audio Coders & Decoders

Includes digital audio codecs

AEQ
Antex Electronics
Apogee Electronics
Alcatel STR
Astroguide
Audio Intervisual Design
Audio Processing Technology
Axon Digital Design
BARCO-EMT/Audio Div
CCS Audio Products
Circuit Research Labs
Comrex
ComStream
Corporate Compute Systems
Denecke
Digigram
Dolby Laboratories
Elantec
Evertz Microsystems
Fougerolle Audio/Video
HES Electronics
Integrated Network
International Datacasting
Intraplex
ITAME
JNS Electronics
LNR Communications
The Management
Moseley Associates
NVision
Pro-Bel
QEI
Questech
Rane
RE America
Rohde & Schwarz
Sample Rate Systems
Studer Digitec
Tayo Industries
Telos Systems
TFT
Unitronic
Videoquip Research
VistaCom
Vortex Communications

Digital Converters

D - A-D/D-A
S - Sample rate

Acces I/O Products	D
Accom	D
Adda Technologies	D
Alesis	S
Antex Electronics	D
Apogee Electronics	D
Asaca/ShibaSoku	D
Audio Design	DS
Audio Intervisual Design	DS

Audio

Audio Processing Technology S
 Axon Digital Design D
 BEC Technologies D
 Clark & Associates D
 Datek D
 Denon Electronics D
 Digital Audio Research S
 DT Electronics D
 DTL Broadcast D
 DYNAIR Electronics D
 Elantec DS
 Fidelipac S
 G Prime S
 GI Communications
 General Instrument D
 GML (UK) D
 Grass Valley Group D
 Hamlet Video International D
 harmonia mundi acustia DS
 ict D
 Image Video/Div of 1077541 Ontario D
 Industrial Computer Source D
 Lexicon D
Logitek Electronic Systems S
 Micro Technology Unlimited S
 NTP Elektronik DS
NVision OS
 Ogenic Technologies D
 Options International S
 Philip Drake Electronics D
 Prism Media Products D
Pro-Bel DS
 QEI DS
 Questech DS
 Raytheon Semiconductor D
 RE DS
 ROH Products D
 Sample Rate Systems DS
 SAV D
 Scantex Labs D
 Schafer World Communications D
Schmid Telecom AG D
 Seem Audio S
 SiemensOsterreich/Audio-Video DS
 Siemens Audio D
 Sonic Solutions D
 Sony Broadcast International D
 Sony Business & Prof Group DS
 Spectral D
 Sprocket Digital D
 ST Keltec Corp D
 Studer Digitec DS
 Studer Editech S
 Studer Professional Audio S
 The Synclavier Co S
 Tekniche D
 Telecast Fiber Systems D
 Television Systems D
 TFT D
 Unitronic S
 Video Associates Labs D
Videotek D
 Vortex Communications D

Wohler Technologies
IBM compatible Audio Multitrack Systems
 Wohler Technologies D
 Yamaha DS
 Z-Systems DS

Digital Workstations

Hard disk recorders, software

AAVS/Advanced Audio Visual Systems
 ABC Digital/Australian Broadcast
 AEQ
 Akai Digital
 AKG Acoustics
 AMS Industries/Siemens
 AMS Neve PLC/Siemens
 Antex Electronics
Asaca/ShibaSoku
 ASC Audio Video
 Audio Design
 Audio Follow
 Audio Interval Design

Audio Processing Technology
 AVID Technology
 Broadcast Electronics
 CBSI-Custom Business Systems
 CEDAR Audio
 Channelmatic
 Clark & Associates
Continental Electronics
 Dalanco Spry
 DALET
 Dalet Digital Media Systems
 DigiDesign
 Digigram
 Digital Audio Labs
 Digital Audio Research
 Digital Broadcast Associates
 Digital Expressions
 ENCO Systems
 Fidelipac
Fostex
 Future Editing Eqpt Design/FED
 gtc Studiotechnic
 harmonia mundi acustia
Henry Engineering
 Henry Engineering
 IGM Communications
 JLCoooper Electronics
 Lexicon
 LPB
 The Management
 McCurdy Radio Industries
 Media Touch Systems
 Micro Technology Unlimited
 Ogenic Technologies
 Optical Media International
 OptImage



Orban
 Otari
 Pacific Recorders & Engineering
 P E Photon
 Philip Drake Electronics
 Plasmecc Systems
 Prophet Systems
 Publison



Radio Computing Services/RCS
 Radio Systems
 Register Data Systems
 Roland Pro Audio/Video
 SADIE
 Schafer World Communications
 Scott Studios
 Siemens Osterreich/Audio & Video
 Siemens Audio
Sierra Design Labs
 Softimage
 Solid State Logic
 Solidyne
 Sonic Solutions
 Sonitex
 Spectral
 Studer Editech
 Studer Professional Audio
 Studer Revox America
 Studio Audio & Video /SADIE
 Studio Technologies
 The Synclavier Co
 Tayo Industries
Tektronix
360 Systems
 TimeLine Vista
 TouchVision Systems
 Turtle Beach Systems
 Yamaha Corp of America

Musical Instruments MIDI Eqpt

Includes specialized instrumental pickups/microphones

Akai Digital
 Alan Gordon Enterprises
 Alesis
 Antex Electronics

DOD Electronics
 JLCoooper Electronics
 Lone Wolf
 Penny & Giles
 Richmond Sound Design
 Roland Pro Audio/Video
 Softimage
 Spatial Sound
 The Synclavier Co
 TASCAM
 Tayo Industries
 Valley Audio Products
 Yamaha

Digital Terminal Eqpt, Modems

AEQ
 Artel Communications
 Audio Processing Technology
 CBSI-Custom Business Systems
 C4 Audio Systems
 Continental Microwave
Fiber Options
 HES Electronics



Integrated Network
Intraplex
 ITAME SA
 JNS Electronics
 LNR Communications
 LPB
NVision
 Schafer World Communications
 Sonic Solutions
 TFT
 TV/Com International
 Vortex Communications
 Wegener Communications

Microphones

- A - Accessories, windscreens, direct boxes, booms, stands
- B - Boundary, surface-mounted
- H - Hand-held & stand
- L - Lavalier
- W - Wireless

Ac-cetera A
 AKG Acoustics ABHLW
 Alan Gordon Enterprises AHLW
 AMS Industries/Siemens H
 ATI-Audio Technologies A
 Atlas/Soundolier A
 Audio Interval Design ABHLW
 Audio Limited USA W
 Audio-Technica ABHLW
 Audio Visual Assistance A
 Audix Corp HLW
 beyerdynamic ANHLW
 Black Audio Devices A
 Bogen Communications AH
 Canford Audio AHW
 C4 Audio Systems B



First Quality in Wireless Sound

Comtek W
Continental Electronics Corp A
 Countryman Associates ABL
 Crown International ABHL
 Danish Pro Audio/Brüel & Kjær AH
 Drawmer/QMI H
Electro-Voice AHLW
 Energy Plus AHLW
Fostex H
 G Prime AH
 Group One ABH
 Har-Ken Specialties A
 Karl Heitz A
HNB Communications H
 HM Electronics LW
 IRP Prof Sound Products BH
 Jensen Transformers A
 Koss H
Lectrosonics W
 LTM A

Marti Electronics W
 Micron Audio Products BLW
 Milab Microphones ABH
 Nady Systems HLW
 Georg Neumann ABH
 Neumann USA ABH



Neutrik USA A
 Pacific Radio Electronics A
Panasonic Broadcast & Television Systems W
Panasonic Pro Audio/Ramsa ALW
 Perma Power Electronics W
 Photomart Cine-Video ABHLW
 Pro Battery A
 Professional Sound ABHL
 Ram Broadcast Systems A
 Theodore A Rapp Associates L
 RCI Systems A
 R-Columbia Products LW
 The Rip-Tie Co a
 Samsom Technologies W
 Sanken Microphones L
 Schalltechnik Dr-Ing Schoeps ABN
 Seam-Tech A
 Sennheiser elektronik ABHLW
 Sescorn A



THE SOUND OF THE PROFESSIONALS* WORLDWIDE

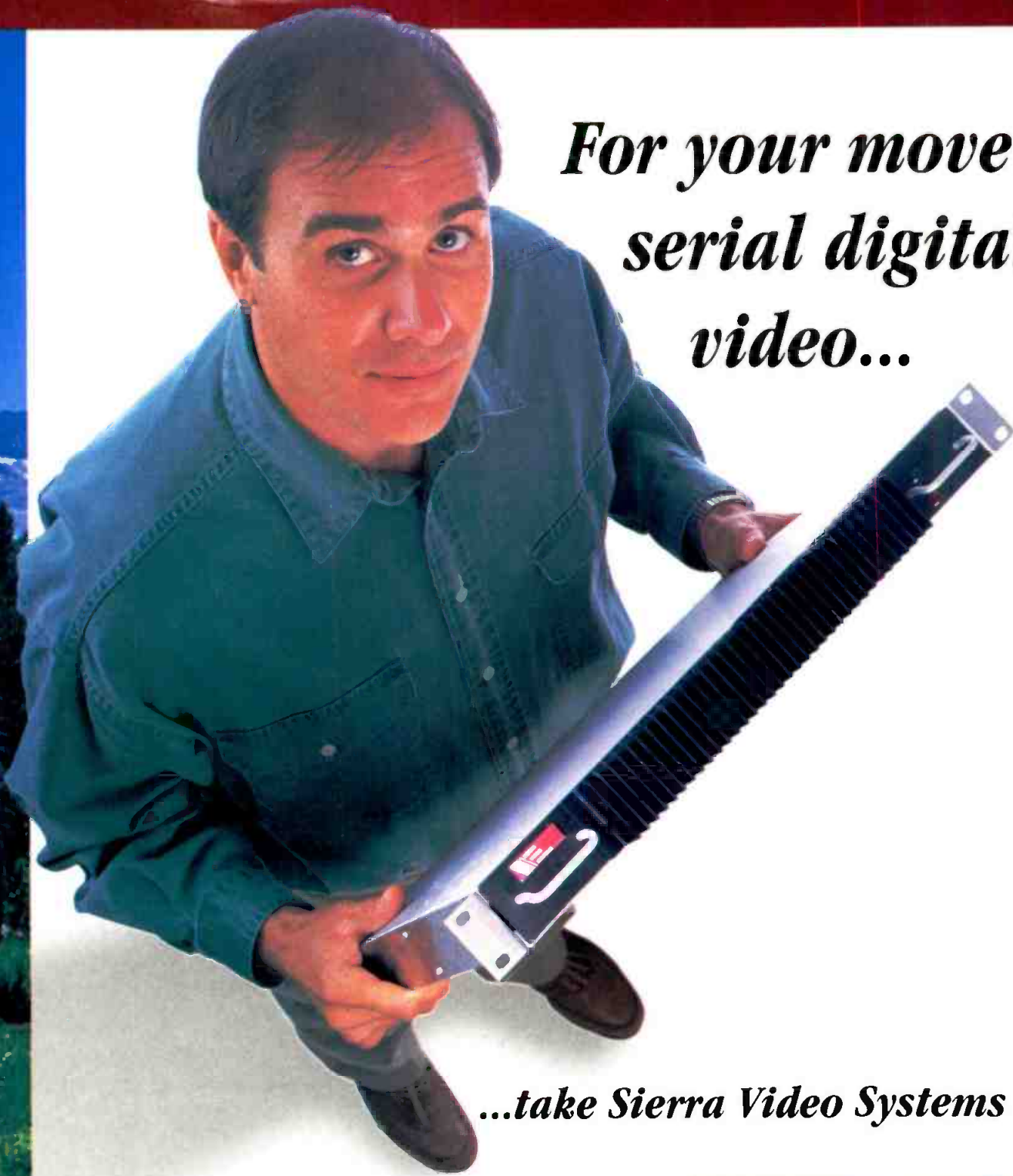
Shure Brothers ABHLW
 Siemens Audio H
 Sony Broadcast International AHLW
 Sony Business & Prof Group SHLW
 Spectra Sonics HLW
 SSL Industries AHLW
 Swintek LW
 Systems Wireless HLW
 Tannoy/TGI North America AH
 Telex Communications ABHLW
 TOA Electronics W
 Vega/Mark IV W
 Videoquip Research A
 Whirlwind A

Audio Consoles, Mixers

- O - On-air Radio/TV
- P - Portable, ENG, Mic
- R - Production, Recording, ESAM

AAVS/Advanced Audio Visual Systems OR
 ADM Systems OR
 AEQ OP
 Alan Gordon Enterprises R
 Alesis R
 Allen & Heath OPR
 Altec Lansing P
 AMEK Systems & Controls OPR
 AMS Industries/Siemens R
 AMS Neve/Siemens OR
 Applied Research & Technology P
 Arrakis Systems OR
 Ashly Audio PR
 ATI-Audio Technologies OP
 Audio Developments P
 Audio Interval Design R
 Audio-Technica PR
 Audioarts Engineering OR
 Auditronics O
 Audix Broadcast O
 Autogram O
 AVS Graphics R
 BAF Communications P
 Biamp Systems PR
 Broadcast Electronics O
 Canford Audio OPR
 Clyde Electronics OR
 Comrex P
Continental Electronics OPR
 Cooper Sound Systems PR
 Dav Tronics OR
 DDA OR
 Digital Audio Research R
 DOD Electronics OPR
 D&R Electronica OPR
 Drawmer/QMI O
 EELA Audio OPR
Electro-Voice OPR
 Energy Plus P
 Euphonix R

For your move to serial digital video...



...take Sierra Video Systems along.

The Model 1616D breaks new ground in serial digital video switching. With state-of-the-art cable equalizers on every input and a 2 GHz GaAs crosspoint array, the Model 1616D provides the performance you need:

- ▶ 16 x 16 serial digital switching matrix
- ▶ Data rates from 140 to 400 Mbps
- ▶ Automatic equalization for up to 300 meters of cable
- ▶ RS-232 or RS-422 serial port for external control
- ▶ Up to 64 control panels on a robust RS-485 network
- ▶ Modular design, in just 1 RU



In your move to serial digital video, you can count on Sierra Video Systems to lead the way. The proven leader in analog routing switchers is now the *new* name in digital video.

*Sierra Video Systems— for an easy
move to serial digital video.*



...you can see the difference!

To find out more
about the **Model 1616D**
Serial Digital Video Routing Switcher,
contact your nearest SVS® dealer, or
call Sierra Video Systems at
(916) 478-1000.

P.O. Box 2462
Grass Valley, CA 95945 USA
Tel (916) 478-1000
Fax (916) 478-1105
Circle (23) on Reply Card

Audio

Fidelipac O
 Focusrite Audio Engineering R
 For-A R
 Fostex R
 Fougerolle Audio/Video R
 Furman Sound P
 G Prime R
 GML (UK) R
 Graham-Patten Systems R
 Group One R
 Hallikainen & Friends OP
 Harrison by GLW OR
 Henry Engineering R
 Hill Audio R
 Image Video/Div of 1077541 Ontario O
 IRP Professional Sound Products P
 J-Lab P
 JLC Cooper Electronics R
 JT Communications OP
 Kaitronics P
 Logitek Electronic Systems OPR
 LPB OR
 Mackie Designs PR
 Mark IV Pro Audio Group R
 McCurdy Radio Industries O
 Media Touch Systems O
 MicroAudio P
 Micron Audio Products P
 Midas R
 Modular Audio Products R
 Nady Systems P
 Neotek OR
 Georg Neumann R
 Ogenic Technologies OP
 Otari OR
 Pacific Recorders & Engineering OPR
 Panasonic Pro Audio/Ramsa R
 Photomart Cine-Video opr
 Pro-Bel O
 Professional Sound OPR
 ProTech Audio R
 QMI O
 Radio Design Labs RP
 Radio Systems OR
 Ram Broadcast Systems O
 Ramko Research OPR
 Samson Technologies R
 Scantex Labs R
 Schafer World Communications OR
 Seem Audio A/S OPR
 Sescor P
 Siemens Osterreich/Audio & Video R
 Siemens Audio OR
 Solid State Logic OR
 Solidyne OPR
 Sonic Solutions R
 Sonosax SA OPR
 Sony Broadcast International R
 Sony Business & Prof Group OPR
 Sound Designers Studio PR
 Sound Tech R
 Soundcraft Electronics OPR
 Soundtracs PLC R
 Spectra Sonics PR
 Stanton Magnetics P
 Studer Professional Audio OR
 Studer Revox America OPR
 TASCAM R
 Telfax Communications P
 Tel-Test R
 TOA Electronics R
 Total Audio Concepts OPR
 Trident Audio Developments R
 Unitronic OP
 Ward-Beck Systems O
 Wheatstone OR
 Whirlwind P
 Yamaha OPR



Zaxcom R

Headphones, Headsets

AKG Acoustics
 AKG Akustische und Kino-Geräte
 Audio Interval Design
 Audio-Technica
 beyerdynamic
 Broadcast Devices
 Canford Audio
 David Clark
 Clear-Com Systems
 Continental Electronics
 Energy Plus
 Farrtronic
 Fostex
 HM Electronics
 Koss
 Nady Systems
 Pacific Radio Electronics
 Philip Drake Electronics
 Photomart Cine-Video
 Plantronics
 Professional Sound
 R-Columbia Products
 ROH Products
 Sennheiser elektronik
 Setcom
 Stanton Magnetics
 TASCAM
 Technical Projects
 TOA Electronics
 Yamaha

Intercoms

AEQ
 Ampco Sound Lab (ASL)
 Anchor Communication/Porta-Com
 Audioarts Engineering
 Bogen Communications
 Canford Audio
 David Clark



Clear-Com Systems
 DTL Broadcast
 Dynatech Spectrum
 Farrtronic
 Heikki Malkki
 HES Electronics
 HM Electronics
 Image Video/Div of 1077541 Ontario
 IRT Electronics
 ITI Electronics
 JNS Electronics
 JT Communications
 Lee Dan Communications
 McCurdy Radio Industries
 Ogenic Technologies
 Philip Drake Electronics
 Photomart Cine-Video
 Portland Instrument
 Pro-Bel
 Professional Sound
 Radio Design Labs
 Ram Broadcast Systems
 ROH Products
 Setcom
 Sierra Automated Systems Eng
 Studio Technologies
 Swintek
 Technical Projects
 Television Engineering
 Telex Communications
 TOA Electronics
 Vega/Mark IV
 Vortex Communications
 Ward-Beck Systems
 Wheatstone

Speakers & Enclosures

Includes integrated amplifier-speaker units.

AAVS/Advanced Audio Visual Systems

Acoustech
 AKG Akustische und Kino-Geräte
 Alesis
 Altec Lansing
 Atlas/Soundolier/
 Audio Interval Design
 Audix Corp

Auernheimer Labs
 Auratone
 BGW Systems
 Canford Audio
 Clear-Com Systems
 Conex Electro Systems
 Continental Electronics
 Drawmer/QMI
 Dukane
 EELA Audio
 Electro-Voice
 Farrtronic
 Fostex
 Fougerolle Audio/Video

GENELEC®

Genelec
 Group One
 HHB Communications
 Image Video/Div of 1077541 Ontario
 ITI Electronics
 JBL Professional
 JNS Electronics
 Koss
 KRK Monitoring Systems
 Malcolm Hill Associates
 Nady Systems
 Panasonic Pro Audio/Ramsa
 Perma Power Electronics
 Photomart Cine-Video
 Practel International
 QMI
 Renkus-Heinz
 SCV Audio
 Sound Tech
 Spectra Sonics
 Studer Professional Audio
 Tannoy/TGI North America
 Television Systems
 TOA Electronics
 UREI
 Vandenberghe Profenex
 Videoquip Research
 Westlake Audio



Wohler Technologies
 Yamaha

Amplifiers, Monitor, Power

Acoustech
 ADM Systems
 AEQ
 Alesis
 Altec Lansing
 API-Audio Products
 Arrakis Systems
 Ashly Audio
 ATI-Audio Technologies
 Audio Interval Design
 BGW Systems
 Biamp Systems
 Bogen Communications
 Broadcast Devices
 Bryston
 Canford Audio
 Carver
 Clyde Electronics
 Conex Electro Systems
 Continental Electronics
 Crown International
 Dukane
 EDCOR Electronics
 EELA Audio
 Electro-Voice
 Energy Plus
 Farrtronic
 FM Acoustics
 Focusrite Audio Eng
 Furman Sound
 Group One
 Hill Audio
 Image Video/Div of 1077541 Ontario
 Industrial Strength Industries
 IRP Professional Sound Products
 IRT Electronics
 Ivie Technologies
 JBL Professional
 JNS Electronics
 Lee Dan Communications

Link Electronics
 Logitek Electronic Systems
 Malcolm Hill Associates
 Modular Audio Products
 Panasonic Pro Audio/Ramsa
 Photomart Cine-Video
 Portland Instrument
 Practel International
 ProTech Audio
 QSC Audio Products
 Radio Design Labs
 Ramko Research
 Rane
 Renkus-Heinz
 ROH Products
 Scantex Labs
 Sescor
 Siemens Osterreich/Audio & Video
 Sonosax
 Sound Tech
 Spectra Sonics
 Studer Digitec
 Studer Professional Audio
 Symetrix
 TASCAM
 Television Systems
 Tel-Test
 TOA Electronics
 UREI
 Videoquip Research
 Videotek
 Whirlwind
 Yamaha

Telephone Hybrids

AAVS/Advanced Audio Visual Systems
 AEQ
 Audio Interval Design
 Audix Broadcast
 Comrex
 EELA Audio
 Gentner Communications
 Henry Engineering
 IRP Professional Sound Products
 ITI Electronics
 JT Communications
 NTP Elektronik
 Ogenic Technologies
 Photomart Cine-Video
 Portland Instrument
 Professional Sound
 R-Columbia Products
 Solidyne
 Sonifex
 Studer Professional Audio
 Studer Revox America
 Swintek
 Telos Systems
 Vortex Communications

Transformers, Matching & Splitting

Alphaton Elektroakustik
 Altec Lansing
 Audio Interval Design
 Black Audio Devices
 Bogen Communications
 Canford Audio
 Deerfield Laboratory
 Farrtronic
 FSR
 Group One
 HES Electronics
 ITI Electronics
 Jensen Transformers
 Georg Neumann
 North Hills Electronics
 Philips Components
 Photomart Cine-Video
 QSC Audio Products
 Ramko Research
 Rane
 Sescor
 Solidyne
 Spectra Sonics
 Studer Professional Audio
 Tannoy/TGI North America
 TASCAM
 Videoquip Research
 XTA Electronics



AT THIS YEAR'S WORLD CHAMPIONSHIPS ONE PERFORMANCE IS HEADS ABOVE THE REST.

At soccer's World Championship Tournament, held at sites across America for the first time in 1994, one of the most powerful performances is being turned in by one of the smallest performers — Schmid's SIAT-MAX Audio Test Generator.

Using the portable, hand-held SIAT-MAX unit at live broadcast sites, along with a Schmid measurement receiver at its control center, the European Broadcast Union can quickly, repeatedly check site-to-center audio links. In doing so, EBU can assure the quality of its transmissions under the most challenging, time-critical conditions.

Innovative audio testing applications like the EBU's are what SIAT-MAX — and Schmid's entire family of short interval audio testing products — are all about. Portability, speed, accuracy, ease-of-operation and low cost all add up to the best, fastest, most versatile audio test solutions on the market today.

Whether you need to conduct audio proofs from remote sites or conduct fully automated tests across your entire network... whether you need to troubleshoot in the field or test audio paths in-house... Schmid has the products to give you peak audio performance. For more information or to arrange a free demo, call 800-438-3953 toll-free today.



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Intelligent by design

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Cedex
Tel: 33-1-3064-8006
Fax: 33-1-3058-2021

Circle (24) on Reply Card

Audio

Pre-Amplifiers, Mic & Phono

ADM Systems
Alphaton Elektroakustik
Aphex Systems
API-Audio Products
Arrakis Systems
Ashly Audio
ATI-Audio Technologies
Audio Intervisual Design
Benchmark Media Systems
Biamp Systems
Black Audio Devices
Bogen Communications
Broadcast Devices
Bryston
Canford Audio
Carver
Clyde Electronics
Conex Electro Systems
Continental Electronics
Cooper Sound Systems
DOD Electronics
Dukane
EDCOR Electronics
EELA Audio
Farrtronics
FM Acoustics
Focusrite Audio Engineering
GML (UK)
Group One
HES Electronics
Image Video/Div of 1077541 Ontario
IRP Professional Sound Products
ITI Electronics
JNS Electronics
Logitek Electronic Systems
Modular Audio Products
Georg Neumann
Pacific Recorders & Engineering
Photomart Cine-Video
Portland Instrument
Practel International
ProTech Audio
Radio Design Labs
Ramko Research
Rane
ROH Products
Scantex Labs
SCV Audio
Solidyne
Sonosax
Spectra Sonics
Studio Technologies
Summit Audio
Symetrix
Tel-Test
Valley Audio Products
Videoquip Research
Ward-Beck Systems
Yamaha

Delay systems & devices

Introducing audio delays to compensate for signal delays in video processing; excludes audio effects, reverb

ADM Systems
Applied Research & Technology
Audio/Digital
BARCO-EMT/Audio
Biamp Systems
Digital Processing Systems /DPS
DOD Electronics
DTL Broadcast
Electro-Voice
Eventide
G Prime
Graham-Patten Systems
Group One
harmonia mundi acustia
International Tapetronics
IRP Professional Sound Products
Klark Teknik
Mark IV Pro Audio Group
Merlin Engineering Works

Georg Neumann
NVision
Pacific Recorders & Engineering
Panasonic Pro Audio/Ramsa
Pro-Bel
Questech
Rane
Sample Rate Systems
Samson Technologies
Siemens Audio
Sonifex
Spectra Sonics
Symetrix
TC Electronic
Television Equipment Associates
Vortex Communications
Yamaha

Dynamics Processors

Including compression, limiting, expansion, noise reduction, de-essing, spectral enhancements

AEQ
AIRcorp
Alesis
AMEK Systems & Controls
Aphex Systems
API-Audio Products
Apogee Electronics
Applied Research & Technology
Ashly Audio
ATI-Audio Technologies
Audio Design
Audio Developments
Audio Intervisual Design
BARCO-EMT/Audio Div
BBE Sound
BFE Femmelde Technik & Elektronik
Biamp Systems
BSS/AKG Acoustics
Circuit Research Labs
Continental Electronics
Cutting Edge Technologies
DOD Electronics
Dolby Laboratories
Dorrrough Electronics
D&R Electronica
Drawmer/QMI
Dan Dugan Sound Design
Eventide
FM Systems
Focusrite Audio Engineering
Furman Sound
G Prime
Gentner Communications
GML (UK)
Group One
Harman dbx Group
Inovonics
ITAME
Ivie Technologies
JBL Professional
JT Communications
KINTEK
Klark Teknik
Lectrosonics
Mark IV Pro Audio Group
Modular Audio Products
Modulation Sciences
Georg Neumann

orban[®]

Orban
Pacific Recorders & Engineering
Panasonic Pro Audio/Ramsa
Pro-Bel
ProTech Audio
Publison
QMI
Radio Design Labs
Ramko Research
Rane
Roland Pro Audio/Video
Sabine
SADiE
Sample Rate Systems
Samson Technologies
SCV Audio
Siemens Osterreich/Audio & Video
Siemens Audio

Solid State Logic
Solidyne
Sonic Solutions
Sony Business & Prof Group
Spatial Sound
Spectra Sonics
Summit Audio
Symetrix
Tayo Industries
TC Electronic
Total Audio Concepts
TV/Com International
UREI
Valley Audio Products
Yamaha
Z-Systems

Effects Processors

Plate/room simulation, reverb, flanging, chorus; profanity delays; may include simple delay function but excludes delay-only compensation

ADM Systems
Alesis
AMS Industries /Siemens
AMS Neve/Siemens
Applied Research & Technology
BARCO-EMT/Audio
BBE Sound
Continental Electronics
Dimension Music and Sound Effects
DOD Electronics
D&R Electronica
Electro-Voice
Eventide
G Prime
harmonia mundi acustia
Klark Teknik
Lexicon
Mark IV Pro Audio Group
Modulation Sciences
Panasonic Pro Audio/Ramsa
Publison
Questech
Sample Rate Systems
Solidyne
Sony Business & Prof Group
Spatial Sound
Symetrix
TC Electronic
Yamaha
Z-Systems

Equalizers

HP-/LP-Filters, parametric, psophometric, swept

Alesis
AMEK Systems & Controls
Aphex Systems
API-Audio Products
Applied Research & Technology
Ashly Audio
ATI-Audio Technologies
Audio Developments
Audio Intervisual Design
BARCO-EMT/Audio
Biamp Systems
BSS/AKG Acoustics
CEDAR Audio
Continental Electronics
DOD Electronics
Drawmer/QMI
Dukane
Electro-Voice
Focusrite Audio Engineering
Furman Sound
G Prime
GML (UK)
Graham-Patten Systems
Group One
Industrial Strength Industries
IRP Professional Sound Products
Ivie Technologies
JBL Professional
JT Communications
Micro Technology Unlimited
MicroAudio
Modular Audio Products
Multidyne
Georg Neumann
Panasonic Pro Audio/Ramsa
Practel International

QMI
Radio Design Labs
Ramko Research
Rane
Sabine
Sample Rate Systems
Samson Technologies
SCV Audio
Siemens Osterreich/Audio & Video
Solid State Logic
Solidyne
Sony Business & Prof Group
Sound Tech
Spectra Sonics
Summit Audio
TC Electronic
TOA Electronics
Total Audio Concepts
TTE
UREI
Ward-Beck Systems
White Instruments/C Van R
Yamaha
Z-Systems

Stereo Correctors, Synthesizers

Includes audio phase correction systems

ADM Systems
AudioControl Industrial
BARCO-EMT/Audio
BFE Femmelde Technik & Elektronik
CEDAR Audio
FM Systems
G Prime
ITI Electronics
JNS Electronics
Orban
Philip Drake Electronics
Sample Rate Systems
Studio Technologies
Tayo Industries
Titus Technological Labs
Videoquip Research

Telephone Bandwidth Extenders

AEQ
Comrex
Gentner Communications
Solidyne
Tayo Industries
Vortex Communications

Time Modification Eqpt

Products permitting time compression, expansion of recorded material

Audio Intervisual Design
Lexicon
Micro Technology Unlimited
Ogenic Technologies
Solidyne
Sonic Solutions
Sony Business & Prof Group
Spectral
Tayo Industries
TimeLine Vista

CD Players

Accurate Sound
Audio Design
BARCO-EMT/Audio
Canford Audio
Carver
Continental Electronics
Denon Electronics
Digital Broadcast Associates
EuroSon America
NSM Consumer Electronics
Fougerolle Audio/Video
G Prime
Gefen Systems
Grozik Associates
Kowa Optimed
The Management
Optical Media International
Photomart Cine-Video
Richmond Sound Design
Rorke Data
Stanton Magnetics

The problem is obvious.



The solution is simple.

No more studio clutter! Reduce overall costs and simplify monitoring needs by letting one unit do all the work.

The VIEWPLEX-2000 is the ultimate video signal multiplexer. It will display up to 16 different channels on one screen with excellent clarity, making applications virtually unlimited.

VIEWPLEX-2000 is ideal for monitoring in a closed circuit set-up, broadcasting multiple images in a collage, or broadcasting sequential images for instructional formats.

If you're thinking of upgrading, don't get

more equipment; just get the one you really need.

Features include: • Video signal format NTSC. • High quality 8 bit picture resolution. • 16 maximum input channels. • 40 different display configurations. • Completely programmable. • Real time picture refreshing at 30 frames/sec. • 8 color character generator built in. For dealer inquiries and further

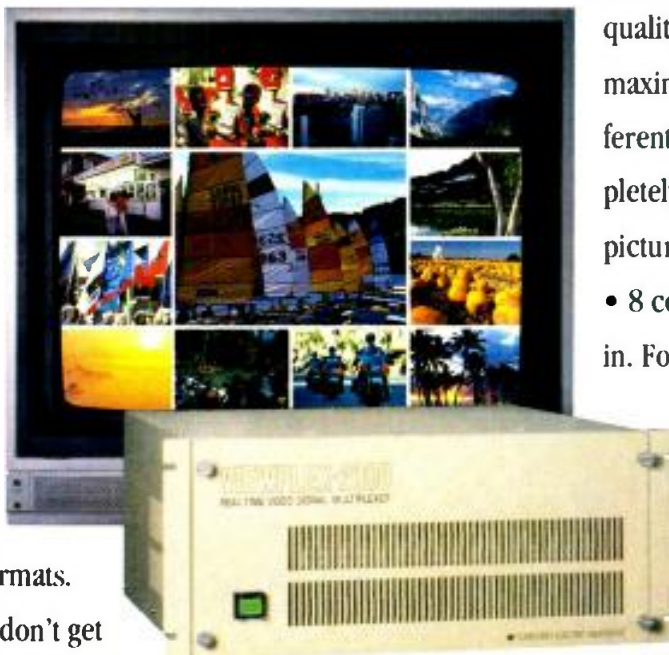
information, contact:

SUMITOMO ELECTRIC

U.S.A., Incorporated.

Telephone: (310)782-0227

Facsimile: (310)782-0211



SUMITOMO ELECTRIC

Circle (29) on Reply Card

www.americanradiohistory.com

OUR DIGITAL AUDIO WORKSTATION IS NOW



Audio Mixers, New York

Fred Venitski (pictured) and Jimmy Regan have the distinction of owning and operating the most used Foundation 2000 on the planet.

Project Studios

Whether you're working on a complicated soundtrack with thousands of edits, or on a straight ahead music demo, Foundation 2000 is fast and easy. Audio scrubbing is so clean that you'll swear you're rocking reels. Edits are seamless. Fades are smooth and glitch-free. Plus, you can specify the "Light Pipe" for direct digital interface with the popular ADAT™ and RD-8 digital recorders.



Soundstorm, Burbank

Gordon Ecker's busy facility (sound for "A Clear and Present Danger" and "Cobb") has a Foundation 2000 which controls and chases a JVC S-VHS video deck "beautifully."

Post Production Suites

Foundation 2000 is the fastest and easiest to use digital audio workstation available today. Dedicated editing buttons let you work at lightning speed, intuitively. Define a splice, cut it, and play it back instantly. Don't like it? Undo it and re-do it up to ten levels deep. And Foundation's Removeable Project Environment lets multiple editors work on a single machine.



ADAT is a registered trademark of Alesis Corp.

PERFORMING WITH THE FOLLOWING GROUPS.



Merrill Lynch, New York

Scott Kersey is the audio engineer who recommended Foundation 2000 for one of the largest private television networks in the U.S.

Corporate A/V Facilities

A low cost plug-and-play solution for in-house production, Foundation 2000 offers comprehensive machine control and synchronization capabilities. You can integrate this system into an existing production set-up without any ancillary equipment. Need to bring in a free-lance engineer to work on a hot project? You can teach him how to operate this system in fifteen minutes.



Vermont Public Radio

Sam Sanders, a happy Foundation 2000 user since January, estimates that he has cut his production time in half.

Broadcast Production Facilities

Our unique Edit Controller looks and feels just like the recorders you work with every day. Foundation 2000 has no keyboards, front-end computers or mice to slow you down. The built-in touch screen shows you a wave form picture of your sound for instant visual reference. There's even an ASRC option so that you can convert one sample rate to another.

FOUNDATION 2000LS

Designed specifically for broadcast production, this random access recorder/editor features the speed, the ease of use, and uncompromising audio quality of Foundation 2000—for less than \$15,000! It's the same dedicated user interface with touch screen display, real time operation, event based editing, wave form display, and expandability to a full Foundation 2000 at any time—the only workstation of its kind to offer this important feature. Test drive the high performance Foundation 2000LS in your studio. Call 1-800-7-FOSTEX today to schedule a demo.



Fostex

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www.americanradiohistory.com

Audio

Studer Professional Audio
Studer Revox America
TASCAM
Wide Range Electronics
Yamaha

Recording & Playback Products

- A** - Analog reel
- C** - Analog cartridge
- D** - Digital, all tape formats
- F** - Film
- K** - Disk recorders (digital), including cart replacement types
- P** - Duplicators, audio
- S** - Recorders, cassette

AAVS/Advanced Audio Visual Systems

Accom DK
Accurate Sound PS
AEQ CK
Akai Digital DK
Alan Gordon Enterprises AS
Alesis D
Antex Electronics CDK
Asaca/ShibaSoku K
Audi-Cord C
Audio Follow DK
Audio Intervisual Design CD
Augan Instruments DK
AVID Technology K
BARCO-EMT/Audio CKD
Broadcast Automation AC
Broadcast Cartridge Service ACS
Broadcast Electronics CK
Canford Audio ACPS
C4 Audio Systems D
Clark & Associates K
Continental Electronics ADCDKS
Denon Electronics CSK
Digital Broadcast Associates C
Digital Force P
Drawmer/QMI D
ENCO Systems K
Ergo A
Fidelipac CK
Fostex DS
Fougerolle Audio/Video S
Gauss P
Graff Electronic Machines p
Henry Engineering D
Hewlett-Packard/VID K
HMB Communications D
Image Video/Div of 1077541
Ontario D
International Tapetronics C
JLCooper Electronics DK
KABA Research & Development P
LPB K
Lyrec Mfg A
Magna-Tech Electronic D
The Management DK
McCurdy Radio Industries K
Media Touch Systems D
Micro Technology Unlimited DK
Micropolis K
Nagra Kudelski AD
Odetics Broadcast K
Otari ADKP
Pacific Recorders & Engineering C
Panasonic Pro Audio/Ramsa D
Perfectone Corp A
Philip Drake Electronics K
Photomart Cine-Video CSD
Pioneer New Media Technologies CSA
Plastic Reel A
Prophet Systems D
Publison D
QMI D



Radio Computing Services/RCS K

Radio Systems K
R C S Traffic D
Recognition Concepts DK
SADiE K
Schafer World Communications C
Scott Studios DK
Siemens Audio D
Sierra Design Labs K
Solidyne D
SONDOR Willy Hungerbühler A
Sonifex CDK
Sono-Mag F
Sony Broadcast International
Sony Business & Prof Group CDPS
Sony Recording Media S
Spectral DK
Studer Digitec CD
Studer Editech K
Studer Professional Audio ADS
Studer Revox America ADS
Studio Audio & Video /SADiE K
TASCAM ACDSP
Texscan MSI D
360 Systems DK
TimeLine Vista K
Unitronic KP
Videoquip Research K
Yamaha CDS
Zonal ADS

Recording Heads

Audio Intervisual Design
Auteri Technical Services
Canford Audio
Fidelipac
Fougerolle Audio/Video
International Electro-Magnetics
JRF Magnetic Sciences
Northern Magnetics
Nortronic
Saki Magnetics
Sprague Magnetics
Studer Revox America
Taber Mfg & Engineering
TASCAM

Recording Tape

Agfa
Alan Gordon Enterprises
Apogee Electronics
Audio Intervisual Design
Audiopak
Broadcast Cartridge Service
Canford Audio
Carpel Video
CoarcVideo
Continental Electronics
Denon Electronics
DIC Digital
Fidelipac
HMB Communications
International Tapetronics
Maxell Corp of America
Music Director Programming Service
Panasonic Pro Audio/Ramsa
Photomart Cine-Video
Polyline
Sony Recording Media
Studio Film & Tape



3M Audio and Video Markets
3M Professional AV & Specialty Products
Video-Matic Group
Zonal

Turntables & Cartridges, Phono

Audio-Technica
BARCO-EMT/Audio
Canford Audio
Continental Electronics
EELA Audio
Photomart Cine-Video
Stanton Magnetics

Video Products

Camera Eqpt, TV

- C** - Camcorder, 1-piece camera/recorder systems, including still video acquisition
- H** - HDTV
- P** - ENG/EFP/portable, includes docking, excludes camcorders
- S** - Studio

Alan Gordon Enterprises CP
Asaca/ShibaSoku H
Bencher C
BTS Broadcast Television Systems HPS
Canford Audio CS
Canon USA C
Concept W Systems P
For-A S
Hitachi Denshi America HPS
ict H
Ikegami Electronics CPHS
JVC Professional Products CP
L E Nelson Sales S
Marshall Electronics C
Optical Systems C
Melford Electronics HS
Nikon H
Nytone C
Panasonic Broadcast & Television/Systems CPS
Philips Components CH
Sanyo CF
Sharp Electronics C
LCD Products Group CHPS
Sony Broadcast International CHPS
Thomson Broadcast CHPS
Toshiba CHPS

Camera Cables

Multicore, triaxial

AAVS/Advanced Audio Visual Systems



Canare Cable
Carmen Abato Enterprises/CAE
Clark Wire & Cable
Cole Wire & Cable
Energy Plus



GEP CO INTL INC
CHICAGO, IL

Geppo International
Hitachi Denshi America
Marshall Electronic Optical Systems
Nemal Electronics Int'l
Newark Electronics
Panasonic Broadcast & Television/Systems
PERROTT 'The Battery People'
Photomart Cine-Video
Rathbone Energy Systems (Energy Plus)
Thomson Broadcast
Toleeto Fastners Int'l/Cord-Lox

Camera Remote Controls

For remote camera adjustments, lens control; may include camera positioning, CCU capability

Alan Gordon Enterprises
AMX
BTS Broadcast Television Systems
BURLE INDUSTRIES
Cole Wire & Cable
Crestron

Innovation Optics
J-Lab
Neilson-Hordell
Nytone
OpTex
Panasonic Broadcast & Television/Systems
Philips Components
Radamec EPO
The M S Russin Group
Sony Business & Prof Group
Telemetrics
Thomson Broadcast
Troll Technology
Vicon Industries
Wescam

Camera Stabilizers

Specialized lens systems and camera support products to reduce image vibration, operator or mounting instability

Alan Gordon Enterprises
Canon USA
Carter Cartop Mfg
Cinekinetic
Cinema Products
FSR Inc
Micron Tool/Cammate
Photomart Cine-Video Inc
Wescam Inc

Camera Imaging Devices

Tubes, CCDs

Daily Electronics
EEV
Fusion Electronics Inc
Image Devices Int'l
MII
Nytone Inc
Philips Components
Sony Business & Prof Group
Teltron Inc
Thomson Tubes Electroniques
Thor Electronics
Toshiba

Camera Support & Position Products

C - Copy stands
D - Pedestals, tripods, dollies, cranes, including automated operation support products
T - Pan/tilt heads, controls, including automated operation positioning products

AF Associates DT
Alan Gordon Enterprises DT
Armel Systems T
AMX T
Arriflex T
Bencher C
Bogen Photo D
BURLE INDUSTRIES T
Canon USA DT



Chapman/Leonard Studio Eqpt D
Chapman/Leonard Studio & Production/Center DT
Cinekinetic D
Crestron T
CSI Camera Support Int'l TD
Eagle Systems D
Energy Plus D
Fujinon T
Karl Heitz DT
Innovation Optics DT
Keystone Metal Products D
K&H Products D
The Lightmaker Co
(Camera Platforms Int'l) DT
Matthews Studio Group/ITE DT
Micron Tool/Cammate DT

A LOT GOES INTO BUILDING THE BEST... LIKE QUALITY

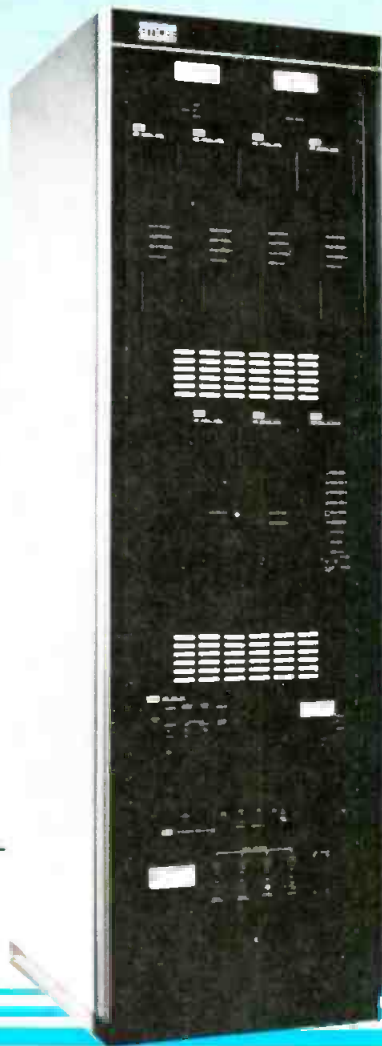
100% Solid State YES
For High Reliability and
Economical Operation

Modular Configuration .. YES
Accessibility, Soft
Failure Capability
Ease of Maintenance

**Separate Visual
Aural Amplification** YES
Eliminates In-Band and
Out-of-Band Intermodulation

Superior Cooling YES
Redundant Fans in each
Amplifier Module to extend
service life

Full Power YES
The only Transmitter with
Individual Power Supplies in
Every Amplifier Drawer



Have you ever calculated the cost of NOT having high quality? The cost of breakdowns, the high cost of repairs, lost ad revenues, extra phone calls, headaches, and frustration because of dead air time! Since 1960 EMCEE has supplied the world with durable, reliable, low and medium power UHF and VHF transmitters and transposers from 1 watt to 5000 Watts.

**SAY YES
TO QUALITY.**

Model TTU1000ES
1000 Watt UHF
Transmitter



EMCEE

EMCEE Broadcast Products P.O. Box 68, White Haven, PA 18661
800-233-6193 or 717-443-9575 FAX 717-443-9257

Video

Matthews Studio Group/ITE	DT
Micron Tool/Cammate	DT
Miller Fluid Heads	DT
Nalpak Video Sales	D
Neilson-Hordell	T
O'Connor Engineering	DT
OpTex	T
Panther	DT
Penny & Giles	T
Peter Lisand	DT
Photomart Cine-Video	DT
Pro Battery	
Quickset International	DT
Radamec EPO	T
The M S Russin Group	DT
Sachtler AG-	
Kommunikationstechnik	DT
Shotmaker Dollies & Cranes	DT
Telemetrics	DT
Tiffen Mfg	DT
TMT electronics	T
Troll Technology	T
ULTIMATE	TD
Velbon International	DT
Vicon Industries	T
Vinten Broadcast	DT

Film Cameras/Editors

Includes motion picture film cameras and editing equipment

Alan Gordon Enterprises
Arriflex
BCD Associates
Energy Plus
Keystone Metal Products
Lightworks/USA
Sony Business & Prof Group
Sprocket Digital
Steenbeck

Filters, Optical

Includes visual effect, ND illumination level compensation and color correction

Alan Gordon Enterprises
F Prime Optics
L E Nelson Sales
Lee Filters
Marshall Electronics
Optical Systems
Nikon
Philips Components
Photomart Cine-Video
Rosco Labs
F J Westcott

Lens Systems

Fixed and zoom units for video cameras, including adapters, extenders

Alan Gordon Enterprises
Angenieux
Arriflex Corp
BURLE INDUSTRIES
Canon USA
Century Precision Optics
Energy Plus
F Prime Optics
Fujinon
Innovision Optics
Marshall Electronics
Optical Systems
Nikon
OpTex
Photomart Cine-Video
Tamron Industries
Tiffen Mfg

Is your company name missing from this directory? If you provide services to or manufacture equipment for the broadcast, production and communications industries, we would like to include your company next year. Please write to: Directories Editor, Intertec Publishing, 9800 Metcalf, Overland Park KS 66212-2215.

Vicon Industries
Visual Methods

Telecine Systems

Film-to-video presentation, transfer systems

BTS Broadcast Television Systems
Buhl Optical
Da Vinci Systems - Dynatech
DGS/Digi-Grade Systems
Evertz Microsystems
Imagica
L-W Athena
Perfectone
Rangertone Research
Rank Cintel
SONDOR Willy Hungerbuhler
Steenbeck
Tamron Industries

Desktop Video & Production Systems

May include functions of time base correction, switching, effects, graphics

Accom
Accu-Weather
ADCOM Electronics
Adda Technologies
Advanced Digital Imaging
Audio Intervisual Design
AVID Technology
AVS Graphics
BCD Associates
Bio-Electronics
Broadcast Electronic Services
Burst Electronics
Colorgraphics - Dynatech
Data Translation/MultiMedia Group
Digital Processing Systems /DPS
Dubner International
Dynatech Video Group
EMC - Dynatech
Ensemble Designs
FAST Electronic
Fast Forward Video
Feral Industries
For-A
FutureVideo
IDX Video
Image Logic



Imagine Products
ImMIX
Interface Engineering
James Grunder & Associates
Link Electronics
Lyon Lamb Video Animation Systems
Matrox Electronic Systems
The Network Connection
Newtek
Nova Systems
Paltex International
Panasonic Broadcast & Television Systems
Pinnacle System
Precision Equipment Photron



Prime Image
Quantel
Questech

Ringwood Associates
Sony Business & Prof Group
Strassner Editing Systems
Sundance Digital
Technical Aesthetics Operations
Tel-Test
Toshiba Corp
TouchVision Systems
United Media
Video Associates Labs
Videomedia
Visionetics Int'l
VistaCom
Vistek Electronics

Video Recording Systems

- 1 - Types C or B
- 3 - U-Matic
- 5 - Non-digital Betacam(SP), (S)-VHS(C)
- 8 - Hi-8, 8mm
- D - Stillstores
- P - Duplicators
- S - Solid-state, RAM
- T - Time, Network delay

Accom	D
Alan Gordon Enterprises	8
Asaca/ShibaSoku	0
Aston Electronic Designs	D
AVS Graphics	D
Brek Connor Group	D
Broadcast Electronic Services	358
BTI Computer Systems	0
Dwight Cavendish	58
Channelmatic	35



Chyron	D
Digistore - Dynatech	D
DNF Industries	1358P
DVS/Digitale Videosysteme	S
Energy Plus	358
Ensemble Designs	D
Ergo	358P
EVS Broadcast Equipment	ST
FAST Electronic	358D
For-A	D
GEE Broadcast Systems	DS
I-Den Videotronics	S
Imagine Products	D
Instant Replay	5
Intervideo	5
JVC Professional Products	5P
MMS	S
The Network Connection	D
Optical Disc	D
Panasonic Broadcast & Television Systems	DP
Pinnacle System	D
Pioneer New Media Technologies	D



Prime Image	SD
Rank Cintel	D
Sharp Electronics Corp/ LCD Products Group	P
Sony Broadcast International	358
Sony Business & Prof Group	1358DSR
Thomson Broadcast	BDETA
Toshiba Corp	158S
Viewtronics	D

Recorders, Digital

- 1 - D1 or D5 formats
- 2 - D2 or D3 formats
- H - HDTV

Accom	12
Ampeg Corp	1
Artel Communications	H
Audio Intervisual Design	2
DNF Industries	12
Intelligent Resources Integrated Systems	12
Lazerus	H
Panasonic Broadcast &	

Television Systems	12
Sierra Design Labs	1
Sony Broadcast International	2H
Sony Business & Prof Group	12
Sundance Digital	1
Thomson Broadcast	12
Toshiba	2H

Editing Controllers

Includes cuts-only, A/B roll, large scale on-line, off-line; ATR and transport synchronizer (not frame synchronizer) equipment

Accom
ADCOM Electronics
Ampex
Amtel Systems
Audio Kinetics UK
AVID Technology
AVS Graphics
Broadcast Electronic Services
BTS Broadcast Television Systems
Calaway Editing - Dynatech



CMX/Chyron Group
Diaquest
Dynatech Video Group
Eastman Kodak
Editing Technologies/ETC
Energy Plus
FAST Electronic US
For-A
FutureVideo

Grass Valley Group

Grass Valley Group
Imagine Products
ImMIX
JVC Professional Products
Lightworks/USA
Matrox Electronic Systems
Montage Group
NTSC Productions
Paltex International
Panasonic Broadcast & Television Systems
RGB Computer & Video
Ringwood Associates
Sony Business & Prof Group
Strassner Editing Systems
Sundance Digital
Technical Aesthetics Operations
Tel-Test
Thomson Broadcast
TimeLine Vista
United Media
Videomedia

Time Code Eqpt

Generators, readers, character insertion; film frame counting, film data products

Adrienne Electronics Corp
Alesis Corp
Arriflex Corp
Audio Kinetics UK
Avitel Electronics
AVS Graphics
Axon Digital Design BV
Bio-Electronics
Burst Electronics
Canford Audio
Cipher Digital
Clark & Associates
Denecke
Diaquest
Energy Plus
ESE
Evertz Microsystems
FAST Electronic US
Fast Forward Video

Continued on page 71

There Are Two Kinds Of Engineers. Those Who Buy Utah Routing Systems. And Those Who Buy Something Else.

Introducing the ADS-300. History Repeats Itself. Digitally.

If you're in the market for a routing switcher, you'll be happy to know Dynatech/Utah Scientific's new ADS-300 is the ultimate achievement of four generations of router technology. In 1978, our AVS-1 proved that rugged, versatile routing switchers could also be affordable. Today the ADS-300, with analog/digital capability, is the most sophisticated member of a full



At 128 x 128 VAA, with redundant power and control, the rugged ADS-300 takes up only 27 rack units of space.

family of mature, reliable routing products. The ADS-300 is built for growth. It can go from 32 x 32 to 256 x 256. And beyond. It's compatible with every control system we've ever built, so it integrates into any Utah installation. And not only



does the ADS-300 manage D1 (serial component) and D2 (serial composite) formats, it's ready for 360 Mb/sec. data rates of future ATV signals. Far more capability, yet it's priced competitively.

Experienced Support, Too.

Over time, we've also learned about what you need in the way of support. That's why we offer a 24-hour, 7-day Global Customer



Universal matrix frames allow easy upgrade to digital signals.

Service Support Center, training and on-site repair, and a 10-year warranty.

Call 1-800-453-8782 for information about the ADS-300. Before you do something you might regret.

utah scientific



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Panasonic. First in Digital Video. Again.

Panasonic, with more firsts in digital video technology than any other manufacturer, now improves S-VHS performance...digitally, of course. Supercam, a milestone in the development of S-VHS video recording systems, is the industry's first professional camcorder to incorporate Emmy Award-winning Digital Signal Processing technology in a one-piece, 3 CCD unit.

MORE CREATIVE CONTROL WITH DSP

Digital Signal Processing delivers unprecedented reliability and flexible control of analog signals. Users will

find Supercam to be easy to set-up and simple to match with other cameras, as well as delivering superb stability. And with DSP, Supercam offers seven scene files for instant set-up of specific shooting environments. Shooters will appreciate spending more time concentrating on the subject, less time on preparation.

LOW LIGHT PERFORMANCE

Supercam uses three 1/2-inch Frame Interline Transfer CCDs for exceptional image quality with minimum smear. Today, S-VHS provides high quality images—even in low

light conditions—for virtually any professional application including: ENG, sports and event videography, post-production, computer graphics, and on-air operations for broadcast, cable and corporate television.

HIGHER QUALITY AT LOWER COST

Now, broadcast and professional videographers can get their hands on the most advanced digital camcorder technology for a fraction of the cost of typical broadcast studio and EFP cameras. Panasonic's Supercam. Further proof that Panasonic is the first in Digital Video.

Panasonic

Broadcast & Television Systems Company

Broadcast Product Guide



Division of Matsushita Electric Corporation of America

Executive Office:
One Panasonic Way (3F-5), Secaucus, NJ 07094

For further information on our complete line of Broadcast and Television Systems Products, please call 1 (800) 524-0864. Press #2 on your phone and ask the operator for the phone number of your nearest Panasonic sales office.

Thank you for your interest in Panasonic Products.

Panasonic

Broadcast & Television Systems Company

D-3 CAMERA/RECORDER

AJ-D310 D-3 1/2" Digital 1-Piece Camera/Recorder

• Integrated digital camera and digital VTR permits 1-person operation

Camera Features

• Three 1/3" frame interline transfer CCD image sensors for minimal vertical smear • 400,000 pixels, resolution of 750 TV lines, f/5.6 at 2000 lux, 62dB S/N ratio • Registration within 0.05% in all zones • Stable, reliable picture quality through digital processing • Fast and easy digital setup of operating parameters • Variable speed electronic shutter (1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 sec.)

VTR Features

• High picture quality, 52dB video S/N ratio, 5.5MHz (± 0.5 dB) video bandwidth • 4 PCM audio channels, with a frequency response of 20Hz to 20kHz (± 0.5 dB) and dynamic range of more than 90dB • Maximum 64 minutes of recording on 1 compact 1/2" cassette (AJ-TD60S) • 3 selectable mic/line inputs (front/rear 1/rear 2) for 4 channels of PCM audio • Color framing and auto backspace editing for high picture quality at successive recording transition points • Phantom power supply to mic/line connector • Built-in SMPTE time code generator (VITC/LTC) with addressable user bits • Record start/stop, fast forward, rewind, search and eject • Viewfinder playback adaptor (optional, AJ-PB30) allows B/W playback through viewfinder, or color playback on an external monitor • Return button enables quick review of recorded results • Self-diagnostic function prevents errors prior to recording • Accepts AU-BP402 or Anton/Bauer battery pack

Standard Accessories

• AQ-VF1-1.5" viewfinder • Tripod adaptor • Carrying strap • Rain cover • Module extenders • Operation/service manual

Specifications

General

Power Requirement:	12VDC (11 to 17V)
Power Consumption:	Maximum 40W
Operating Temperature:	32°F to 104°F (0°C to 40°C)
Operating Humidity:	Less than 85%
Weight:	Approx. 14.3 lbs. With viewfinder approx. 18.7 lbs.
Dimensions:	10"H x 5 7/16"W x 14 3/16"D

VTR Section

Longitudinal Tracks:	Time code 1; CTL 1
Recording Time:	Maximum 64 minutes with AJ-TD60S
Cassette Type:	D-3 cassette (S size)
FF/Rew Time:	Within 5 minutes (using AJ-TD46S cassette)

Camera Section

Pickup Device:	Frame interline transfer 1/3" CCD image sensor (3X) Pickup element: 754(H) x 487(V)
Optical System:	f/1.4 prism with quartz filter
Sensitivity (89.9% reflection):	Standard: 2000 lux (at f/5.6, electronic shutter off); minimum illumination: 15 lux (at f/1.4, + 18dB)
Shutter Speeds:	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 sec.



AJ-D310

Optical Filter:	A: 3200K; B: 5600K; C: 5600K + 1/4 ND; D: 5600K + 1/16 ND
Lens Mount:	Special bayonet type
S/N Ratio:	62dB (typical)
Horizontal Resolution:	> 750 TV lines
Registration:	*0.05% over entire screen (excluding lens)
Highlight Compression:	Approx. 600%
Gain:	0, +9, +18dB
Digital Processing	
Sampling Frequency:	14.3MHz/28.6MHz
User Setting (Digital):	Detail: H. detail, V. detail, coring, level dependent, peak frequency, line mix, chroma detail, dark detail; Level: gamma, setup, knee point, white clip, iris level, peak ratio; EVF display: EVF mark, Zebra-1, Zebra-2; Masking: R-B, R-G, G-R, G-B, B-R, B-G; Flare: R, G, B; Shading: black, white
Input/Output Signal	
Genlock Video Input:	1.0V p-p, 75 ohm, BNC
Time Code Input:	1.0V to 4.0V p-p, high impedance, BNC
Audio Mic/Line Input:	-60dBm/0dBm selectable, high impedance balanced, XLR 3-pin x2
Front Mic Input:	-60dBm, 3K ohm balanced, XLR 3-pin
Video Output:	1.0V p-p, 75 ohm, BNCx2
Monitor Output:	1.0V p-p, 75 ohm, BNC
Time Code Output:	2.5V p-p, low impedance, BNC
Earphone Output:	-20dB, 8 ohm, mini jack
Ext DC Input:	XLR 4-pin
Playback Adaptor:	37-pin multiconnector
Lens:	12-pin multiconnector
Extension Control Unit:	6-pin multiconnector
Viewfinder:	12-pin multiconnector

Panasonic

Broadcast & Television Systems Company

BROADCAST DIGITAL VTRs/ PLAYERS

AJ-D580 **D-5** Component Digital Studio VTR

- Full transparent CCIR-601 4:2:2 10-bit (13.5MHz) component recordings without compression
- Selectable 13.5 or 18MHz sampling rates
- 62dB S/N, 6.75MHz video bandwidth at 13.5MHz rate
- 56dB S/N, 9MHz video bandwidth at 18MHz rate
- Full 2-hour rec/play time on 1/2" MP tape
- 4 channels of 20-bit, 48kHz AES/EBU PCM audio
- Analog cue track
- Full LTC/VITC time code
- Full editing capability, insert, assemble and preread
- High speed search 50X play
- Auto tracking range -1 to 2X
- Built-in test generator
- Multicue
- Serial and parallel digital video input and output
- 9-pin RS-422 control, 25-pin RS-232C control, 50-pin parallel control
- 6 RU in height

Options

- AJ-MK10 analog component video input and output
- AJ-MK20 composite digital output, analog output also when combined with AJ-MK10
- AJ-MK30 analog audio input and output
- AJ-MK35 D-3 playback processor for playback of D-3 tapes

AJ-D320 **D-3** 1/2" Digital Portable VTR

- High picture quality, 52dB video S/N ratio and 5.5MHz (± 0.5 dB) video bandwidth
- 4 PCM audio channels, with a frequency response of 20Hz to 20kHz ($+0.5/-1$ dB) and dynamic range of more than 90dB
- Maximum 64 minutes of recording on 1 compact 1/2" cassette (AJ-TD60S)
- Compact and lightweight: 5 1/16"H x 11 1/16" W x 14 3/16"D, main unit 15.4 lbs.
- Digital video signal input terminal
- Built-in A/D converter allows video signal input from an analog camera
- SMPTE-standard 26-pin camera terminal
- Built-in playback circuit allows audio/video playback without additional equipment
- Time code window in playback picture
- Selectable audio in level: -60/-20/+4dB
- Phantom power supply (48VDC/12VDC) to mic/line connector
- Built-in SMPTE time code generator (VITC/LTC) with addressable user bits
- 5X normal speed search and 16X normal FF/rewind with color picture
- Record review and key inhibit functions
- Battery pack holds 2 AU-BP402 or 2 Anton/Bauer Compac Magnums

AJ-D340 **D-3** 1/2" Digital Studio VTR

- 4 rack unit size
- Industry's smallest digital VTR, yet delivers 4 hours of recording and playback
- 8"H x 17 1/2"W x 21 1/16"D
- Ideal for OB vans and applications requiring multiple VTRs, or as source players for transmission/dubbing
- Accepts all 3 cassette sizes (L/M/S) without an adaptor
- Equipped with a continuous signal level display and direct-access control panel
- Control panel allows direct storing of 8 cues, index search and WFM signal output selection
- 8-14 coding
- 6.2MHz video bandwidth
- 54dB S/N ratio
- 8 fsc oversampling
- 4 PCM audio channels with frequency response from 20Hz-20kHz
- Single longitudinal audio channel is also provided
- Multigeneration recording
- 100X normal speed shuttle search forward/reverse
- Advances to the next or previous 30-second tape spot in 5 seconds
- On-screen setup display with settings easily changed
- Full confidence playback allows real time monitoring of pictures while recording
- Tilttable operation panel
- SMPTE time code generator/reader REC inhibit switch
- Error indicator
- Serial digital in/out with AES/EBU digital audio in/out
- Analog in/out
- 9-pin serial RS-422A
- RS-232C terminal
- Small and large extender boards
- Optional video encoder remote controller, AJ-ER30



AJ-D580



AJ-D340



AJ-D350

AJ-D350 **D-3** 1/2" Digital Studio VTR

- High picture quality, 54dB video S/N ratio and 6MHz video bandwidth
- 4 PCM audio channels, with a frequency response of 20Hz to 20kHz (± 0.5 dB) and wide dynamic range (20 bits)
- Maximum 245 minutes of recording on 1 compact 1/2" cassette (AJ-TD240L)
- Single format system expandability with 3 cassette sizes
- PCM 4-channel audio allows independent editing and advanced technology suppresses editing degradation
- Rotary erase heads enhance sound quality by achieving complete erasure
- Multigeneration dubbing capability (up to 20 generations)
- High-speed 100X normal speed search with color playback
- Auto tracking allows noiseless still/slow playback (1X to 3X normal speed)
- Program play permits playback speed adjustment
- Advanced low-tape tension mechanism minimizes tape-to-head abrasion and enhances durability
- Both read-before-write and read-after-write possible
- Complete editing functions include assemble, insert, audio split editing, spot erase and variable memory editing (VME)
- Optional monitoring software AJ-SF30 computerizes management
- RS-422 9-pin serial, 50-pin parallel and RS-232C interfaces
- Digital I/O capability for other digital equipment (video: RP-125X; audio: AES/EBU standards)
- AJ-D350 NTSC version
- AJ-D350E PAL version

For further information call: 1-800-528-8601 (upon request enter product code 04)

Panasonic

Broadcast & Television Systems Company

BROADCAST CAMERAS

AQ-20D/11D 3CCD Portable Digital Processing Cameras

- Digital processing section provides 2-dimensional cross-color filter; variable enhancement frequency, 3.6MHz-7.2MHz (2-H enhancer) • High-chroma aperture correction (chroma DTL)
- Accurate 1-touch digital gamma adjustment (0.35-0.55) • Auto-knee circuit • Optical fiber digital transmission system consisting of AG-20D camera head, base station and control panels
- 400,000 pixel CCD • 750 lines horizontal resolution • 62dB S/N
- Cable can be extended up to 12.4 miles when local power is supplied to the camera, or 1.5 miles with power supplied through the cable • Can be connected to a VCR for ENG use, to a multicore system or docked with an **MII** VCR • Central picture control: Digital setup allows control parameters to be set numerically; control is provided through both the remote control operation panel and the master control unit connected to the base station
- Master control unit can control up to 40 cameras (additional CSUs are needed) • Scene files can be stored in IC card memory
- Sensitivity: f/8 at 2000 lux • Min. required illumination: 7.5 lux
- 6-speed variable electronic shutter • Auto white/black balance (A/B preset) • SMPTE color bar output • 0, +9, + 18dB gain
- Genlockable • 4-step color temp filter and neutral density filter
- Flare correction circuit • Black stretch switch • Circuit breaker for overload • Bayonet lens mount

Standard Configuration

- Camera head • Tripod attachment • Shoulder strap for **MII** VCR combination • Rain cover for **MII** VCR combination • Extension circuit board

AQ-20D Frame interline transfer $\frac{2}{3}$ " CCD

AQ-11D Interline transfer $\frac{2}{3}$ " CCD with 4-position filter wheel

System Control for AQ-20D/11D (Partial Listing)

AQ-BS200 Optical Fiber Base Station Unit

Connects with AQ-20D (with the AQ-CA55) via optical fiber cable for digital signal transmission, and is equipped for analog composite and analog component video output

AQ-RC200 Remote Control Operation Panel (RCOP)

Provides remote control over virtually all camera functions, including digital setup, and can be used to load and save up to 4 complete setup variations on an IC memory card. The joystick provides easy control over iris setting.

AQ-MC200 Master Control Unit (MCU)

Includes the camera select unit (CSU) and master control panel. 1 CSU can be linked with 8 cameras; with additional CSUs, a single master control panel can remotely control up to 40 cameras. The large electro-luminescent display shows all settings for easy confirmation.

AQ-CA1 ENG Camera Adaptor

Equipped with a 26-pin camera terminal for connection to a variety of other systems such as D-3 and **MII**

AQ-CA3 Stand-alone adaptor (AQ-20D/11D)

AQ-VF1 1.5" viewfinder (AQ-20D/11D)

AQ-VF50 5" viewfinder (AQ-20D)



AQ-20D



AQ-11D

AQ-CA55 Optical Fiber Camera Adaptor

Allows connection with the AQ-BS200

AQ-CA50 Multicore Camera Adaptor

Can be connected to the AQ-RC50 remote control unit via a 41-pin multicore cable

AQ-RC50 Remote Control Unit (RCU)

The AQ-RC50 is a multicore (41-pin) system remote control unit and base station with a removable front panel

AQ-EC1 Extension Control Unit (ECU)

Compact control unit that connects easily with the camera to allow remote control operation

Optical Fiber Cable

Can be extended to 12.4 miles when local camera power is supplied and to 1.5 miles with power supplied through the cable

AQ-235W Digital Signal Processing Studio Camera System

- 16:9/4:3 switchable aspect ratios • 520,000 pixel M-FIT CCDs
- 10-bit analog/digital conversion • Full 12-bit advanced digital signal processing: extraordinary operational stability, precise signal processing, programmable performance, immediate setup, superb video performance • Versatile scene file and lens file memory structure • Composite and component serial digital interface
- Syncro-scan—(variable shutter control) • 7" viewfinder with enhanced features • Variable skin detail circuit • Stand-alone or remote control operation • Available with Triax or fiber optic cable link

For further information call: 1-800-528-8601 (upon request enter product code 07)

Panasonic

Broadcast & Television Systems Company

COLOR VIDEO MONITOR/ DIGITAL SWITCHERS

AT-H1905DP 19" Diagonal NTSC/PAL

Selectable Digital Signal Color Video Monitor

- PAL/NTSC decoder • Decodes PAL or NTSC composite analog or digital signals • Auto setup probe optional • Digital signal processing of analog and digital signals through 5-line adaptive comb filter for elimination of dot crawl • I and Q axis demodulation
- Direct inputs for serial composite, serial component, parallel composite and parallel component digital signals for the highest versatility • NTSC analog inputs and RGB/VP_BP_R input
- Switchable 4:3 and 16:9 aspect ratio • SMPTE-C phosphor for true color renditions • EDH check function for early warning of deteriorating serial digital transmission • Improved extra high tension voltage for very stable bright pictures • UL listed • More than 900 lines horizontal resolution • Frequency response: 100Hz ~ 8MHz ± 1dB • CRT: (0.28mm), (Dot pitch) dot inline 90° deflection impregnated barium cathode for long CRT life, Invar shadow mask for stable purity • Color temperature: 9300K; 6500K; 3200K and user memory

ET-AK105 Auto setup probe. For automatic white balance adjustment or copying master monitor's settings to other AT-H1905DP monitors

RSK-L1905 Rack slide kit



AT-H1905DP

For further information call: 1-800-528-8601
(upon request enter product code 19)

AS-D700 Composite Digital Production Switcher

- 15 composite serial digital inputs standard • 4 buses and 2 maskable key layers • Internal analog, parallel, aux bus I/O option
- Ergonomic, user friendly operation • ASICs provide compact size (5U) and low power consumption (350W) • Varied wipe patterns: 13 basic patterns and 48 total combinations • System flexibility: integral send bus for DVE connection; tally outputs (27-pin) • GPI input • Optional shadow generator: includes edge, outline, drop and variable flying shadows • Dynamic Rounding™ process for either 8-bit or 10-bit output • Standard RS-422 serial control
- Control panel is rack-mountable

*Dynamic Rounding™ is used under license from Quantel Limited.



AS-D700

For further information call: 1-800-528-8601
(upon request enter product code 13)

Accessories

- AS-A701/702 Analog composite signal input/output module for using the AS-D700 in existing analog systems (up to 2 boards can be mounted)
- AS-A701 8 bits, 4 inputs, 2 outputs
- AS-A702 10 bits, 2 inputs, 2 outputs
- AS-A703 Parallel input/output module, provides 4 inputs and 2 outputs conforming with SMPTE parallel digital standards
- AS-A704 RGB chroma key unit
- AS-A705 Shadow generator
- AS-A706 Video effect processor interface
- AS-A707 Extender board
- AS-A708 Rack-mounting adaptor
- AS-A709 Memory card
- AS-A720 Analog processing rack. Mounts up to 10 digital/analog modules
- AS-A721 Module. Converts analog signals into 8-bit serial digital signals. Has 3 analog distribution lines and 3 digital outputs
- AS-A722 Module. Converts analog signals into 10-bit serial digital signals. Has 3 analog distribution lines and 3 digital outputs

AS-A723

Module. Converts serial digital signals (8-bit D/A conversion). Has 3 digital distribution lines and 3 analog outputs

AS-A724

Module. Converts serial digital signals into analog signals (10-bit D/A conversion). Has 3 digital distribution lines and 3 analog outputs

AS-A730

Digital processing rack. Mounts up to 12 serial digital parallel signal conversion modules

AS-A731

Module. Converts serial digital signals into parallel digital signals. Has 3 distribution lines and 1 parallel digital output

AS-A732

Module. Converts parallel digital signals. Has 3 serial digital outputs

AS-D590 32 x 32 Digital Routing Switcher

- Can be set up by connecting coaxial cables • Dedicated 16 input/16 output crosspoint ASIC • Dedicated ASICs make serial digital switching stable and precise • Automatic cable equalizer for serial digital signal input; equipment can be connected with cables up to 650' (using 8281 cable) • Switcher is equipped for RS-232D, RS-422 and parallel switching control

AS-D740 Component Digital Production Switcher

- 10-bit 4:2:2 at 13.5MHz component digital I/O • 1 mix/effects processor • 3 linear key processors • 16 standard serial inputs (auto timing) • 12 assignable external keys • 20 effects memories with transitions • Dual chroma key option • 625/525 selectable • 16:9 aspect at 13.5MHz selectable • Rack-mount control panel
- 5 RU main chassis

Panasonic

Broadcast & Television Systems Company

MII RECORDERS/PLAYERS

ENHANCED
Hseries

AU-62H/63H MII ^{ENHANCED}Hseries Studio Players

Common Features

- High-quality 90-minute playback • Built-in digital 3-D type field TBC featuring correction range of 1 field, 262.5H • Digital freeze still • Noiseless still • 4-field sequence color framing • 4-channel audio with independent level adjustment • 4 VU meters • Dolby C noise reduction • Internal time code reader (VITC/LTC/UB) • User bits can be retrieved independently from either VITC or LTC • NTSC 16:9 wide aspect compatibility • Y/C output • RS-422A serial interface • High-speed search/jog • Provides up to 32X normal speed in forward and reverse • On-screen setup menu with search dial for settings • Built-in digital hour meter • Improved superimpose capability • Optional CCIR601 output (digital component video) capability, AU-MK26 • Tape speed override allows manual 15% playback speed adjustment in 1% steps • Optional encoder remote control, AU-ER65B • 8-digit FL display • 19" rack-mount capability using AU-M60 adaptor (requires only 6 vertical rack units)



AU-62H

AU-63H MII ^{ENHANCED}Hseries Studio Player With Auto Tracking (AT)

Includes common features plus: • Auto tracking function allows noiseless playback from -1X to +2X normal speed, plus instant starts from still frames in variable mode • Variable memory playback: Changes in tape speed and direction can be memorized on models incorporating variable memory control functions (AU-65H, AU-A950HD) • Program play: Using the variable (A/T) mode, playback speed can be adjusted from 80%-120% in 0.1% steps to allow easier time compression or expansion for on-air production



AU-63H

AU-65H/66H MII ^{ENHANCED}Hseries Studio Recorders

Common Features

- High-quality 90-minute recording and playback • Picture-in-picture • 1-event assemble editing and a full range of insert editing operations for video, audio (CH1/CH2) and time code • Offers preview, review, go to, trim and auto tag • Audio split editing • Variable memory editing: When used with AU-63H Player, playback contents of the player's A/T mode within the range extending from normal speed in reverse to twice normal speed forward can be memorized by the recorder for playback and editing • >49dB S/N video (component Y); > 56dB S/N audio • Built-in digital 3-D type field 8-bit TBC featuring correction range of 1 field, 262.5H • Digital freeze still • Noiseless still • 4-field sequence color framing • 4-channel audio with independent level adjustment • 4 VU meters • Dolby C Noise reduction • Internal time code reader (VITC/LTC/UB) • User bits can be retrieved independently from either VITC or LTC • NTSC 16:9 wide aspect compatibility • Y/C in/out connector • RS-422A serial interface • High-speed search/jog • Provides up to 32X normal speed in forward and reverse • On-screen setup menu with search dial for settings • Built-in digital hour meter • Improved superimpose capability • Optional CCIR601 output (digital component video) capability, AU-MK26 • Tape speed override allows manual 15% playback speed adjustment in 1% steps • Optional encoder remote control, AU-ER65B • 8-digit FL display • 19" rack-mount capability using AU-M60 adaptor (requires only 6 vertical rack units)



AU-66H

AU-65H MII ^{ENHANCED}Hseries Studio Recorder

Includes common features

AU-66H MII ^{ENHANCED}Hseries Studio Recorder With Auto Tracking (AT)

Includes common features plus auto tracking and confidence playback (audio and video)

For further information call: 1-800-528-8601 (upon request enter product code 01)

Panasonic

Broadcast & Television Systems Company

MII RECORDERS/PLAYERS POWER W SERIES

AU-W32H/W33H/W35H POWER W Series MII Studio Recorder/Players

The "Power" Series MII products are designed for specific application where RS-422 control will be used to drive these machines. Machine to machine editing can be accomplished by using either the AU-66H or AU-65H "EnHanced" Series MII decks as the recorder and any "Power" Series MII products as the source machine. The "Power" Series MII Recorder (AU-W35H) front panel does not have any edit control capability. Both the "Power" Series and "EnHanced" Series MII products can be controlled by the AG-A300 slow-motion controller and the AG-A350 single-event RS-422 edit controller products.

Common Features

- Full component bandwidth recording/playback system for superb picture quality
- Full 90-minute record/playback with AU-M90L tape
- Built-in 3-D type digital TBC with full 1 field correction capability
- 4 audio channels: FM (CH3/CH4) and linear audio (CH1/CH2); with 4 input and 4 output jacks
- 2-bar graph type audio level meters
- Built-in Dolby-C noise reduction circuitry for linear audio tracks
- Full 4 field color framing control
- Built-in SMPTE time code generator/reader (VITC/LTC/User Bits)
- Adjustment knobs for all TBC setups (also remoteable)
- Y/C (S1-Video) input/output connectors for S-VHS editing and dubbing
- On-screen menu setup for simplified parameter settings
- NTSC 16:9 wide aspect ratio compatibility
- Maximum search speed 32X, job/shuttle capable when using an edit controller
- RS-422A 9-pin serial interface
- Digital field freeze picture output during Stop mode produces noiseless stills
- Optional 4:2:2 output (digital component video) capability (with AU-MK26)
- Tape speed override (TSO); $\pm 5\%$ playback speed adjustment, 1% steps
- Standard 19" rack-mount—6RU with tiltable operation panel in addition for the AU-W33H only
- Noiseless pictures in still and slow motion with AT (auto tracking) (-1X to +2X normal speed, in 56 steps)
- Program play: noiseless playback speed adjustment (80%-120%), 0.1% steps

AU-W32H	MII "Power" Series player
AU-W33H	MII "Power" Series player with auto tracking
AU-W35H	MII "Power" Series recorder
AU-MK26	Component digital (4:2:2) output

MII Metal Particle Tape

AU-M90L	90-minute video cassette tape
AU-M60L	60-minute video cassette tape
AU-M30L	30-minute video cassette tape
AU-M20L	20-minute video cassette tape
AU-M10L	10-minute video cassette tape
AU-M20S	20-minute video cassette tape (small)
AU-M10S	10-minute video cassette tape (small)
AU-MPSCL	Metal particle cleaning cassette tape (small)



AU-W32H



AU-W33H



AU-W35H

Panasonic

Broadcast & Television Systems Company

MII RECORDERS/PLAYERS

AU-45H **MII** ENHANCED series Dockable Recorder/Player

- 68-pin connector allows direct docking with a variety of cameras (WV-F700ASH, F565/F250BH, etc.)
- 4 audio channels: FM audio (CH3/CH4) and linear audio (CH1/CH2) with Dolby C noise reduction circuitry
- Built-in SMPTE time code generator (VITC/LTC/UB) with independent TC in/out terminals
- 2-year backup battery for TC/CTL
- Record/review function for 1-touch recording check
- VTR operation buttons (FF/Rew/Play/Stop) located on the top panel
- On-screen setup menu with digital time meter
- Self-diagnosis function prevents errors prior to recording
- Tape and battery meter
- Accepts AU-BP402 or Anton/Bauer battery pack



AU-45H Connects to WV-F565

AU-55H **MII** ENHANCED series Portable Recorder/Player

- Component signal (Y/PB/PR) level-check function
 - BNC component signal output (Y/PB/PR)
 - Color-framing compatibility (recording/playback)
 - Sony† BVR-3 remote controller can also be used
 - 4 audio channels: FM audio (CH3/CH4) and linear audio (CH1/CH2) with Dolby C noise reduction circuitry
 - Phantom power supply (48VDC) to mic/line connector
 - Convenient record/review functions
 - Built-in SMPTE time code generator (VITC/LTC) and reader (LTC) with superimpose capability on the video output
 - 5X normal speed search with color picture and time code
 - RS-422A 9-pin serial interface
 - Audio AGC (CH1/CH2)
 - Video output level adjustment (Video Level, Sync Phase, SC Phase)
 - External genlock
- †The name and mark Sony is the property of Sony Electronics Inc.



AU-55H

AU-410 Dockable **MII** Recorder/Player

- Delivers high quality pictures on par with 1" VTRs
- Records using component signals to deliver high quality pictures from NTSC type video cameras
- Employs compact, lightweight cassettes with 20-minute recording time, usable in **MII** editing without an adaptor
- Playback heads for both audio and video, in addition to the recording head, to enable on-the-spot review of recording quality
- Automatic backspacing of 20 frames (approx 0.7 sec.); successive pictures are recorded by means of "assemble" type recording for a smooth, glitch-free bridge
- Built-in time code generator: VITC/LTC
- Jamsync: time code can be recorded continuously at the edit points when performing backspace editing
- Ext. time code input
- 4-channel audio recording: 2 linear with Dolby C noise reduction, 2 FM multiplexed with the color signal
- Warning indicator lamp for: head drum or capstan servo trouble, head clogging, tape slacking or jam, excess humidity
- LED indicators
- Soft-touch buttons
- Phantom power (+48V) can be supplied to the audio input connectors for CH1/CH2



AU-410

For further information call: 1-800-528-8601 (upon request enter product code 01)

For-A
 FutureVideo
Gray Engineering Labs
 Hamlet Video International
 Horita
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Recording Heads

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Recording Tape

Agfa
 Alan Gordon Enterprises
Ampex
 Audio Interview Design
 Carpel Video
 CoarcVideo
 DIC Digital
 Fuji Photo Film
 Magnetic Products
 Maxell
 MSE Video Tape Services
 Sony Broadcast International
 Sony Recording Media
 Studio Film & Tape



3M Audio and Video Markets
 3M Professional A/V & Specialty Products
 Video-Matic Group

Video Server

Accom
 ADT (Applied Digital Technology)
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Micropolis
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 Sundance Digital

Animation Eqpt
 Film, digital video



Abekas Video Systems
 Accu-Weather
 AF Associates
 Alan Gordon Enterprises



Aurora/Chyron
 AVS Graphics
 Axiom Software
 BCD Associates
 Chyron
Colorgraphics - Dynatech
 CoSA-The Company of Science & Art
 Data Translation/MultiMedia Group
 Diaquest
Digital Processing Systems DPS
 Discreet Logic
Dynatech Video Group
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 FAST Electronic
 Fast Forward Video
 GEE Broadcast Systems
 Getris Images
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 Ringwood Associates
 Snell & Wilcox
 Softimage
 Spaceward Graphics
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 WeatherNews America
 WSI
 XAOS Tools
 Yamashita Engineering

Captioning, VBI Data Systems

Includes Teletext, Videotext equipment; \$ software

Asaca/ShibaSoku

Video

AVS Graphics
 Blue Feather
 Caption Colorado
 Cavena Image Products
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Chyron
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 Ensemble Designs
 Evertz Microsystems
 FastCap/Silent Software
 GEE Broadcast Systems
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Locked to the Atomic Clock in the Global Positioning Satellite System, you can have time, date and time code within nanoseconds of UTC, any where in the world!!

ES-185

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STANDARD FEATURES INCLUDE:

- SMPTE/EBU, ESE, IRIG-B & ASCII Time Code Outputs
- 1PPS Output • 6 Satellite Tracking • Battery Back-up
- GPS Locked Indicator • Automatic Daylight Savings Time Correction
- Time Zone Offset • Antenna • AND MORE!!

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Knox Video
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Spaceward Graphics
Sumitomo Electric USA
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Texscan MSI
Video Data Systems
WSI
Yamashita Engineering Mfg

Digital Effects Systems

Abekas

A Carlton Company

Abekas Video Systems

Alta Group Inc - Dynatech
Amplex
AVS Graphics
BTS Broadcast Television Systems

CoSA-The Company of Science & Art
Data Translation/MultiMedia Group
Diaquest
ECHOlab
EMC - Dynatech
Feral Industries
For-A
Fougerolle Audio/Video
GEE Broadcast Systems
Getris Images
Grass Valley Group
ImMIX
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JLCooper Electronics
KUB Systems
Microtime
Newtek
Parallax Graphics Systems
Pinnacle System
Quantel
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Toshiba
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Accu-Weather
AF Associates



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CoSA-The Company of Science & Art
Data Translation/MultiMedia Group
Diaquest
Discreet Logic
Display Systems Int'l
Dynatech Video Group
Ensemble Designs
Getris Images
Grass Valley Group
InnoVision Technology
Inscriber Character Generator
Interlace Engineering
JLCooper Electronics
Laurentel Systems
Linker Systems
Matrox Electronic Systems
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Microtime
MMS
Newtek
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Pixel Power
QSI Systems
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Accu-Weather
Automated Weather Source



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ILC Technology
Koto Luminous
L E Nelson Sales
LTM
Mole-Richardson
OpTex
Packaged Lighting Systems
Philips Lighting
Photomart Cine-Video
Premier Lighting & Production
Pro Battery
Sachtler Kommunikationstechnik
George R Snell Associates
Strand Lighting
Sylvania Lighting
Theatre Service & Supply
Vantage Lighting

Lighting Consoles & Dimmers

Includes dimmer units & control systems

American Studio Equipment
Celco
Dove Systems
Electronic Theatre Controls
Electronics Diversified
Entertainment Technology
Leprecon/CAE
LTM

Mole-Richardson
Packaged Lighting Systems
Richmond Sound Design
Sachtler Kommunikationstechnik
Strand Lighting
Theatre Service & Supply

Lighting Instruments, Kits

With S Screens and non-electronic illumination control devices

Alan Gordon Enterprises
American Studio Eqp
Anton/Bauer
APS Professional Video Products
Arriflex
Balcar
Broadcast Marketing Int'l
Celco
Cine 60
Cool-Lux Lighting Industries
Desisti Lighting/Desmar
Electronic Theatre Controls
Flash Technology
G&M Power Products
K5600
Keystone Metal Products
Kobold Licht/Beleuchtungstechnik
Lee Filters
Leonetti Company
LTM
Mole-Richardson
Packaged Lighting Systems
PEP
Sachtler Kommunikationstechnik
Sinar Bron
Strand Lighting
Theatre Service & Supply
Videssence
Vistek Electronics
Walter Brewer
F J Westcott Co

Monitors, Video

R - Mono, Color displays
H - HDTV
S - Sunshades
W - Video Walls
Z - Replacement, Rebuilt CRTs

Asaca/ShibaSoku HR
Audio Interval Design H
Aydin Controls R
Barco Inc HR
BURLE INDUSTRIES R
Crestron R
Croma Research Ltd R

EDOTRONIX

Dotronix R
EEV Z
Electronic Visuals RH
Hoodman R
ict RH
Ikegami Electronics HR
JVC Professional Products R
Marshall Electronics R
Optical Systems R
Melford Electronics RHZ
Mitsubishi Imaging Products R
MultiVideo Image Display R
Panasonic Broadcast & Television Systems R
Philips Components RZ
Photomart Cine-Video R
Sharp Electronics R
LCD Products Group R
Sony Broadcast International HR
Sony Business & Prof Group HR
Sumitomo Electric USA R
Toshiba H
Video Display Z
Video Visions/Delcom W
Videotek R
Viewgraphics H
Virtual Vision Inc R
Vistek Electronics R

Projectors, Video

Large screen systems using
CRT, LCD light sources

Barco
Buhl Optical
Display Devices
Electrohome
Electrosonic Systems
ict
Ikegami Electronics (USA)
Melford Electronics
Mitsubishi Imaging Products
Nytone
**Panasonic Broadcast &
Television Systems**
Sharp Electronics
LCD Products Group
George R Snell Associates
Sony Broadcast International
Sony Business & Prof Group
Synelec
Telex Communications
Toshiba

Hardcopy Printers, Video

Diaquest
GEE Broadcast Systems
ict
Imagine Products
**Panasonic Broadcast &
Television Systems**
Sharp Electronics
LCD Products Group
Sony Business & Prof Group

Switchers/Mixing Desks, Video

M - Master control
P - Production, Studio, Edit
Suite

Abekas

A Carlton Company

Abekas Video Systems	P
Alpha Image - Dynatech	MP
Ampex	P
AVS Broadcast	P
BTS Broadcast Television Systems	MP
Channelmatic	M
Dynatech Video Group	MP
ECHOlub	P
For-A	MP
GEE Broadcast Systems	P

Grass Valley Group

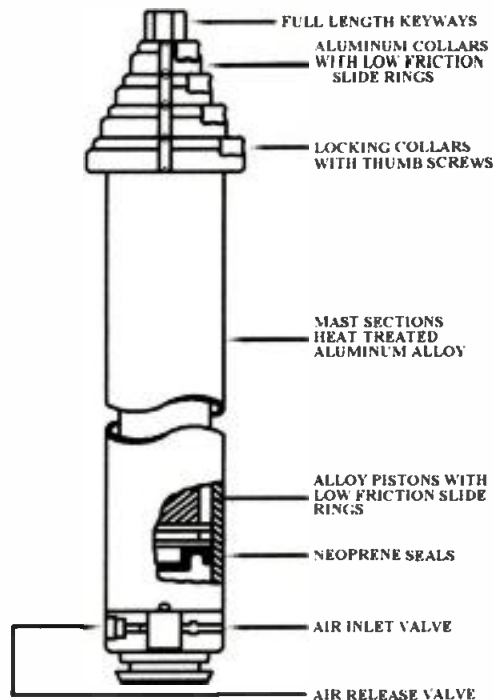
Grass Valley Group	MP
Image Video/Div of 1077541 Ontario	M
J-Lab	P
Kramer Electronics	p
MATCO	M
McCurdy Radio Industries	M
Multidyne	M
Ogenic Technologies	M
Panasonic Broadcast & Television Systems	MP
PESA Switching Systems	M
Pixel Instruments	P
Practel International	MP
Pro-Bel	M
Ross Video	P
SAV	M
Siemens Osterreich/Audio-Video	M
Snell & Wilcox	MP
Sony Business & Prof Group	MP
ST Olektron Systems	MP
Tech Electronics Inc	MP
Tel-Test	MP
Thomson Broadcast	MP
Utah Scientific - Dynatech	MP
VGV (Video Gainesville)	P
Videotek	MP
Vistek Electronics	MP

HILOMAST

TELESCOPIC PNEUMATIC MASTS

Applications

- Remote ENG
- Communications
- Field Strength Measurements
- Pop-up Jamming
- Remote Surveillance
- Noise Level Measurements
- Temporary Floodlighting
- Environmental Sensors
- Military Communications



for Further Information Contact Jim Osborne

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756 LAKEFIELD RD. Bldg. J
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Tel:(805)495-8420 Fax:(805)373-6067



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Fax: 708-635-7946
U.K. 0634-715544

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Vicon Industries
Video Accessory
 Videoquip Research
Videotek
 Viewsonics
 Vortex Communications

Teleconferencing Systems

Advent Communications
 Dan Dugan Sound Design
Fiber Options
 FSR
 Gentner Communications
 Grass Valley Group
 Integrated Network
 Kaitronics
 LNR Communications
Panasonic Broadcast & Television Systems
 Philip Drake Electronics
 Sandar Electronics
 Scantex Labs
 Sony Business & Prof Group
 Taber Mfg & Engineering

Telect

CONNECTING THE FUTURE™

Telect
 VistaCom

Light-based Signal Transmission Systems

American Laser Systems

Sync/Pattern Generators

Produces video drive pulses, subcarrier, blackburst, color bar, test patterns

AAVS/Advanced Audio Visual Systems
Asaca/ShibaSoku
 AVCOM of Virginia
 BAL Broadcast
 Bio-Electronics
 Burst Electronics
Digital Processing Systems DPS
 DT Electronics
 Elantec
ESE
 FM Systems
 For-A
 Grass Valley Group
 Hamlet Video International
 HEDCO
 Horita
 Intelvideo
Leitch
 Link Electronics
 Lyon Lamb Video Animation Systems
 Magni Systems
 Multidyne
 Network Technologies
 Pacific Coast Marketing
 Philips TV Test Equipment
 Practel International
Pro-Bel
 PTL Cable Service
 QSI Systems
 RE
 Shintron
 Sigma Electronics
 Snell & Wilcox
 Sony Business & Prof Group
 System Video
 Techni-Tool
Tektronix
Video Accessory
Videotek
 Vortex Communications
 Wavetek - Instrument Div
 Yamashita Engineering Mfg

Generators, Safe Area/Source ID

Asaca/ShibaSoku America
 Boland Communications
Broadcast Video Systems
 Burst Electronics
 DT Electronics
ESE
Gray Engineering Labs
 Hamlet Video International
 Horita
 Link Electronics
 Lyon Lamb Video Animation Systems
 Magni Systems
 Microvideo
 Multidyne
 Practel International
 QSI Systems
 Sigma Electronics
Tektronix
Video Accessory
 Video Data Systems
 Videoquip Research
 Vortex Communications

Signal Conversion Eqpt

D - A/D, D/A digital video
 P - Serial/Parallel, Parallel/Serial
 S - Scan

AAVS/Advanced Audio Visual Systems
 Accom
Alpha Image - Dynatech
Ampex
 Audio Intervisual Design
 Avitel Electronics
 Axon Digital Design
 BAL Broadcast
 Channelmatic
 Chromatek Scan Process
 Communications Specialties
 DigiDesign
 Digital Vision (DV Sweden)
 DT Electronics
 DYNAIR Electronics
Dynatech Video Group
 Elantec
 Ensemble Designs
 Evertz Microsystems
 EVS Broadcast Equipment
 Extron Electronics
 Faroudja Laboratories
 Fast Forward Video
 Feral Industries
 Folsom Research
 For-A
 Fougerolle Audio/Video
 GEE Broadcast Systems

Grass Valley Group

Grass Valley Group SD
 ict D
IDX Video Inc S
 Image Video/Div of 1077541
 Ontario DP
Intelligent Resources Integrated Systems D
 James Grunder & Associates S
 Kramer Electronics S
Leitch DP
 Lyon Lamb Video Animation Systems DS
 Merlin Engineering Worksc DS
 Microvideo DP
 Mira Vision DS
 Miranda Technologies DP
 NTL D
 Options International P
 Philips Components S
 Precision Equipment Photron D
Pro-Bel DP
 Questech D
 Raytheon Semiconductor DS
 RE D
 RGB Spectrum PS
 SAV DP
 Snell & Wilcox DSP

Sony Broadcast International D
 Sony Business & Prof Group DPS
 Sprocket Digital P
 ST Keltec D
 Tekniche DP
 Television Equipment Associates D
Thomson Broadcast DP
 VGV (Video Gainesville) D
 Video Associates Labs D
 Video Int'l Development S
 Visionetics Int'l D
 Vistek Electronics DPS
 Vortex Communications DSP
 Yamashita Engineering Mfg S

Signal Correction Eqpt

C - Color correction, component level adjustment, color enhancement
 E - Enhancement, luminance detail
 N - Noise reduction

Accom N
 Allen Avionics N
Colorgraphics - Dynatech C
Da Vinci Systems - Dynatech C
Digital Processing Systems-DPS C
 Digital Vision (DV Sweden AB) CEN
Dynatech Video Group C
EMC - Dynatech C
 For-A CEN
 GEE Broadcast Systems C
 Inline E
 Intelvideo CEN
 J-Lab C
 Kramer Electronics C
 Merlin Engineering Worksc E
 Microvideo C
 Miranda Technologies E
 North Hills Signal Processing N
 Nova Systems EN
 Options International C
 Philips Broadband Networks CEN
 Quantel C
 Snell & Wilcox CEN
 Sony Broadcast International C
 Sony Business & Prof Group CN
Tektronix C
Thomson Broadcast CE
 Vistek Electronics E
 Zaxcom N

Delays, Pulse/Video

Includes simple delay-lines and packaged delay systems

AAVS/Advanced Audio Visual Systems
 Allen Avionics
 Avitel Electronics
 Axon Digital Design
 BAL Broadcast
 Boland Communications
 DT Electronics
 Eventide
 Faraday Technology
 For-A
 Grass Valley Group
 Image Video/Div of 1077541 Ontario
 Intelvideo
Leitch
 Matthey Electronics
 Miranda Technologies
 Omicron Video
 Philips Components
Pro-Bel
 Snell & Wilcox
 Stanford Research Systems
 Tekniche
 Television Equipment Associates
Thomson Broadcast

Encoders, Decoders

Includes: Scan conversion; component-to-composite; composite-to-component; computer-to-video.

AAVS/Advanced Audio Visual Systems

Video

Abekas

A Carlton Company

Abekas Video Systems

Accom
Alpha Image - Dynatech
Ampex
Asaca/ShibaSoku
 BAL Broadcast
 Brek Connor Group
 Broadcast Systems Design
Broadcast Video Systems
 BTS Broadcast Television Systems
 Burst Electronics
 Channelmatic
 Communications Specialties
 Compression Labs
 Cromia Research
 Digital Vision
 DT Electronics
 DVS/Digitale Videosysteme
 Elantec
 Extron Electronics
 Faroudja Laboratories
 Feral Industries
 Folsom Research
 For-A
 Fougerolle Audio/Video
 GEE Broadcast Systems

Grass Valley Group

Grass Valley Group
 Hamlet Video International
 I-Den Videotronics
 Inline
 Instant Replay
Intelligent Resources Integrated Systems
 Intelvideo
 James Grunder & Associates
 Kramer Electronics
Leitch
 Link Electronics
 LNR Communications
Macrovision
 Microtime
 Microvideo
 Microwave Filter
 Mira Vision
 Miranda Technologies
 MMS GmbH
 Nova Systems
 Omicron Video
 Optibase
 OptImage
 P E Photron
 Philips TV Test Equipment

Prime Image

Prime Image
Pro-Bel
Quanta Corp - Dynatech
 Questech
 Raytheon Semiconductor
 RGB Spectrum
 SAV
 Shintron
 Sigma Electronics
 Snell & Wilcox
 Sony Business & Prof Group
 System Video
 Tekniche
Thomson Broadcast
 Toko America
 Vicon Industries
 Vistek Electronics
 Y/C Plus

Continued on page 81

Discover the difference...

EXPLORER[®]

Providing the highest quality digital video for desktop video solutions.



The core of a complete modular video system, Video Explorer, is transforming the professional video industry with advanced solutions for on-line editing, compositing, animation, graphics and much more.

Video Explorer Solutions

• Linear On-Line Editing

For much less than the cost of a traditional system, Video Explorer and MediaWare's Video Navigator™ create an *on-line* A/B roll edit controller, switcher with wipes, dissolves, keys and special effects, still stores, and access to character generation, paint and animation. The bottom line? Component Digital (DI), Betacam SP™ and/or Composite format editing capabilities for a fraction of the cost.

• Animation & Graphics

The broad range of available software such as Electric Image™, Linker Systems Animation Stand™, Fractal Designs Painter™, Crystal Graphics Crystal Topaz™, and Adobe Photoshop™, plus high-quality video input/output, makes Video Explorer the platform of choice for both animators and designers alike. Employ multiple high-end graphics and animation stations for less than the cost of a single dedicated electronic paint system.

• Compositing & Rotoscoping

Create high-quality, low-cost multi-layer compositing, special effects and graphics over video by integrating Video Explorer with ADI's Digital Magic™ and QuickTime™ compatible software such as CoSA After-Effects™ and Adobe Premiere™

• Character Generation & Video Tools

Keep edit sessions moving smoothly using Video Explorer. Output high-quality anti-aliased fonts and computer graphics, perform touchups, and create complex mattes, right in the edit suite.

Highest Quality Video

BBC, NHK, RTL, NBC, Fox Television, ITN, SWF, SRB, ORF, VOX, ZDF, Veronica Broadcasting, Euro-News, the 1994 Winter Olympics, the Academy Awards – broadcast, post production, design, and multimedia companies alike depend on the quality and creative flexibility of the Video Explorer system.

System Features

- Video Explorer configurations support NTSC, PAL, SECAM, and Macintosh video rates.
- Protect your investment with Video Explorer's interchangeable modular components which allow system customization and future upgrades.
- Designed with VideoBahn®, Intelligent Resources' real-time video bus for transfer of uncompressed digital video between multiple cards, allowing multiple video inputs and outputs, as well as integration with third-party products such as MPEG and JPEG compression systems, digital disk recorders, Ultimatte matting, and digital video effects processors.
- The Video Explorer system provides uncompromised image quality in: **Component Digital** (CCIR 601), **Multi-Component** (including MII, Betacam, SMPTE YUV, & RGB), **RGB** and **Composite/S-Video**.

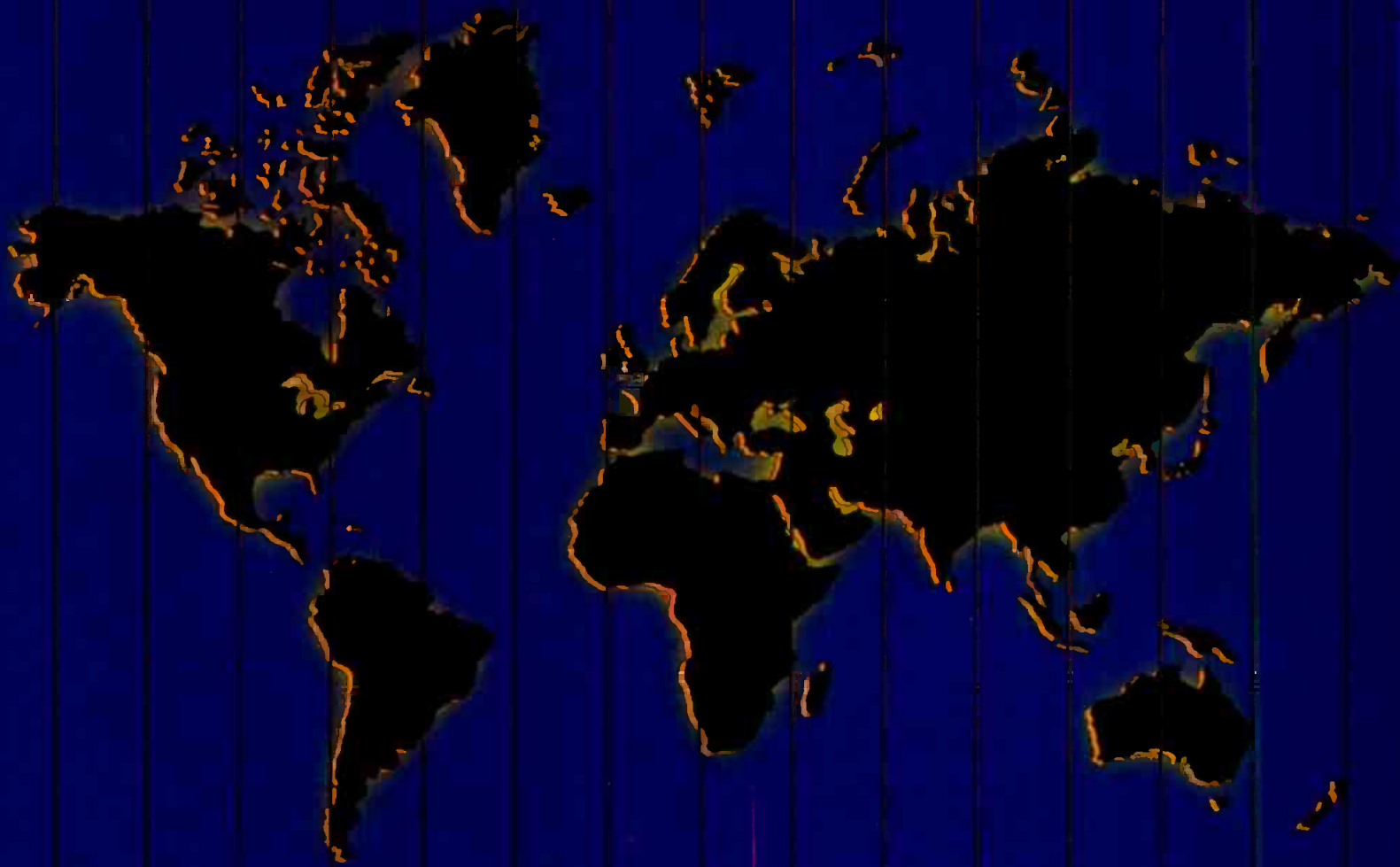
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INTEGRATED SYSTEMS

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Arlington Heights, IL U.S.A. 60005-5000
Phone: (708) 670-9388 Fax: (708) 670-0585

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INTELLIGENT RESOURCES

INTEGRATED SYSTEMS



● THE WORLD'S FUTURE IN VIDEO PRODUCTION

EXPLORER[®]

The core of a complete modular video system, Video Explorer, is transforming the professional video industry with advanced solutions for on-line editing, compositing, animation, graphics and much more.

"The Video Explorer system became a very powerful tool and was an important element in the mix. Because the typography and graphics were so intensive, we couldn't have done it (1994 Winter Olympics from Lillihamer, Norway aired on CBS) without the Video Explorer card."

*Paul Sidlo, President, ReZ.n8,
Hollywood, California, U.S.A.*

"It has really changed the way we do business. For type design, layouts, and filters, it's a perfect extra tool to have in the edit suite. Operation within the edit suite is more efficient. I wouldn't build an edit room without the Video Explorer."

*Jeff Heusser, Technical Director,
Editel Chicago,
Chicago, Illinois, U.S.A.
A leading post production facility*

"It didn't take long before we discovered the Intelligent Resources product, that we realized we could eliminate a few steps and make the quality much better."

*Karl Paulsen, Director of
Engineering, Digital Post &
Graphics, Seattle, Washington,
U.S.A., excerpt from the NAB '94
panel discussion entitled "Video
Production in 1994 and Beyond"*

"We have more choices to offer the client. An unlimited number of software and applications—all wired in (CCIR) 601. Thanks to the IR (Video Explorer) we can transfer between everything. The IR (Video Explorer) allows us to feed directly to tape, or to a Quantel Harry for compositing."

*Chris Homer, Manager Post
Production, Fox Television, Los
Angeles, California, U.S.A.,
excerpt from the NAB '94 panel
discussion, entitled "Video
Production in 1994 and Beyond"*

"With the Video Explorer digital video processing system, which gives us access to the Macintosh world and all its software, we are on the leading edge of a revolution comparable to what happened in the print world with desktop publishing."

*Pierre--Marie Fenech, Head of
Post Production, Transatlantic
Video, Paris, France*

"The Video Explorer card stands alone as the quality card...It is so robust in design that new uses are continually being found for it."

*David Leathers, President
Eye Square, Culver City,
California, U.S.A.,
and contributing editor to
Video Systems magazine*

"Products like the Video Explorer mean people can produce exceptional programs for less than thought possible. As a producer, it means I can literally do it myself. I have control over the images. And, I can generate the quality I require."

*Max Whitby, Founder of the
Red, Green and Blue Company,
London, England, formerly
of the BBC*

"The Video Explorer is the key link that enables our graphics to look so good on television."

*David Piña, President, Piña
Designs, Burbank, California,
U.S.A. (graphics designer
for the "Academy Awards",
"Toni Awards", and the
"Miss America Pageant")*

"Using the Intelligent Resources/ADI combo we recorded elements for this motion picture direct to the disk. We realized this was perfect. We've got an affordable desktop environment that you can go into Broadcast or Film Production and you don't have to make excuses."

*Scott Billups, Director Digital Prod.,
Billups Communications,
Los Angeles, California, U.S.A.,
Director of Special Effects
for the movies "Pterodactyl
Woman From Beverly Hills",
"Roswell", and "Fantastic Four"*

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3030 Salt Creek Lane, Suite 100
Arlington Heights, Illinois, USA 60005-5000
Tel: 708-670-9388 ■ Fax: 708-670-0585

SLS-SL-001.0 8/94 12M

Format Translators

Inter-format conversions among video component signals

AAVS/Advanced Audio Visual Systems

- Alpha Image - Dynatech
- Avitel Electronics
- Broadcast Video Systems
- Digital Vision (DV Sweden AB)
- Elantec
- FM Systems
- For-A
- Fougerolle Audio/Video
- Grass Valley Group
- Intelligent Resources Integrated Systems
- J-Lab
- Microtime
- Nova Systems

Prime Image

- Prime Image
- Sigma Electronics
- Snell & Wilcox
- Sony Business & Prof Group
- Tekniche
- Thomson Broadcast
- Vistek Electronics

HDTV, ATV Eqpt

Forming images of more than 1,000-line structure; excludes computer CAD, non-video products

- Astre Systems
- Chromatek Scan Process
- Digital Vision (DV Sweden)
- DVS/Digitale Videosysteme
- Eastman Kodak
- Faroudja Laboratories
- ict GmbH
- Keystone Metal Products
- Mira Vision
- NTL
- Omicron Video
- Quantel
- Rank Cintel
- Snell & Wilcox
- Sony Business & Prof Group
- Thomson Broadcast
- Toshiba
- Viewgraphics

Keyers

DSK, chroma, linear, luminance, compositing

AAVS/Advanced Audio Visual Systems

- Alpha Image - Dynatech
- Brek Connor Group
- Broadcast Video Systems
- DT Electronics
- Elantec
- EMC - Dynatech
- For-A
- Image Video/Div of 1077541 Ontario
- Interface Engineering
- J-Lab
- Leitch
- Microvideo
- Paltex International
- Practel International
- Precision Equipment Photon
- Pro-Bel
- Quantel
- Questech
- Snell & Wilcox
- Tel-Test
- Thomson Broadcast
- VGV Inc (Video Gainesville)
- Vistek Electronics
- Vortex Communications

Standards Converters

Inter-standard conversion among composite video NTSC, PAL-N/M, SECAM; may include video component input and output capabilities

AAVS/Advanced Audio Visual Systems

- AVS Broadcast
- BAL Broadcast
- Brek Connor Group
- Chromatek Scan Process
- Elantec
- FM Systems
- For-A
- Fougerolle Audio/Video
- FSR
- ict GmbH
- Intelligent Resources Integrated Systems
- Kramer Electronics
- LNR Communications

Prime Image

- Prime Image
- Raytheon Semiconductor
- SAV
- Snell & Wilcox
- Sony Business & Prof Group
- Tekniche
- Thomson Broadcast
- Toshiba
- Video Int'l Development
- Vistek Electronics
- Vicom/Satellite Systems
- Vortex Communications

TBCs, & Frame Synchronizers

Video signal timing correction equipment

- Allen Avionics
- Alpha Image - Dynatech
- Alta Group - Dynatech
- Audio Kinetics UK
- Brek Connor Group
- Broadcast Electronic Services
- Digital Processing Systems DPS
- DT Electronics
- Elantec
- Ensemble Designs
- FAST Electronic
- Feral Industries
- For-A
- Fougerolle Audio/Video
- Grass Valley Group
- Hamlet Video International
- Hotronic
- IDX Video
- James Grunder & Associates
- Leitch
- Microtime
- Nova Systems

PIXEL INSTRUMENTS CORP.

Prime Image

- Prime Image
- Questech
- Raytheon Semiconductor
- Sony Business & Prof Group
- Tekniche
- Tektronix
- Television Equipment Associates
- Toshiba
- VideoTek
- Vistek Electronics
- Vortex Communications
- Zaxcom

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We are a big family.

In the FM & TV Broadcasting World.

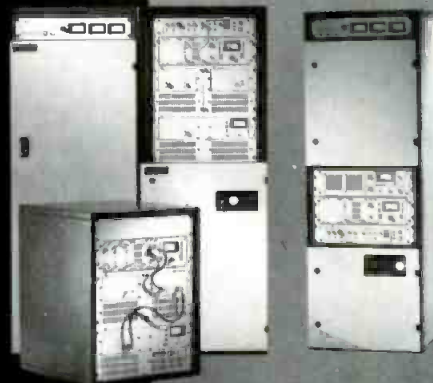
IMMAGINE ASSOCIATI - PISA/ITALSO



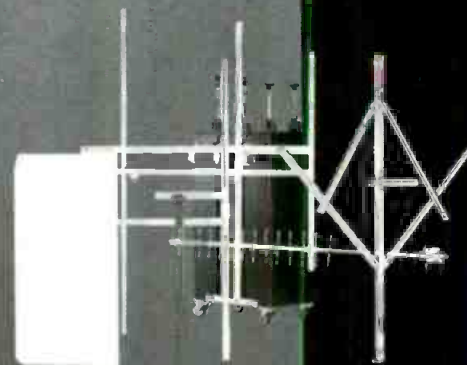
FM Cavity Transmitters from 1000 W to 20,000 W output power, FM Solid State Transmitters from 100 W to 2000 W output power.



Digital Encoder / Decoder for analog aural FM radio links. 2 or 4 high quality audio channels without need to change existing equipment.



TV Cavity Transmitters from 1000 W to 10,000 W output power. TV Solid State transmitters from 10 W to 500 W output power for Band I - III - IV/V



FM Omnidirectional and Directive Transmitting Antennas, TV Panel Antennas, Splitters, FM & TV Combiners, Radio Link Antennas, Accessories.

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with innovative products, fully integrated broadcast system and 24 hours worldwide spare parts & service. The most strict international normative are fully complied with.

Electronica Telecomunicazioni

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Tel. + 39 - 49 - 8700588 (3 line) - Fax + 39 - 49 - 8700747 - Telex 431683 DBE I

Radio Products

AM Antenna Eqpt

- A - AM directional arrays
- R - Remote indicators
- S - Sampling Equipment
- U - Tuning units

Alan Dick	AU
CCA Electronics	U
Continental Electronics	ARSU
CRS-Lanmead	RSU
Dav Tronics	SU
Delta Electronics	S
Doty-Moore Tower Services	S
Electronics Research	A
ERI-Electronics Research	A
Frontier Communications	AU
GEC-Marconi Communications	AU
Gorman-Redlich Mfg	AR
Hallikainen & Friends	R
Harris Broadcast (Harris Allied)	AU
ITAME	U
Jampro Antennas	U
Kintronic Labs	ARU
LBA Technology	ASU
LeBlanc & Royle Telcom	A
LPB	U
Marconi Communications	AU
Old Dominion Broadcast Eng	ARSU
Potomac Instruments	S
Practel International	RS
Stainless	A
Telefunken Sendertechnik	AU
Thomcast	ARU
Utility Tower	A

Antennas, Other

- E - Earth station
- F - FM
- M - Microwave, ENG, ITFS, MMDS, STL, ICR
- P - Antenna position systems for microwave, satellite antenna controllers
- T - TV VHF/UHF

Advent Communications	EP
Alan Dick	FT
Andrew	MTE
Antenna Concepts	FT
Arden Technologies	M
Astre Systems	T
Astroguide	EP
Blonder-Tongue Labs	E
Broadcast Communications	FM
Broadcast Microwave Services	M
Browning Labs	FMT
Cablewave Systems	FM
Comark Communications	A
A Thomcast Co	F
COMSAT-RSI, Mark Antennas	M
ComStream Corp/A Spar Co	E
Comtech Antenna Systems	EP
COMWAVE	M
Conifer	M
Continental Electronics	FM
Continental Microwave	EMP
CRS-Lanmead	EP
CTE International	FM
DB Elettronica Telecomunicazioni	FMT
DH Satellite	EP
Dielectric Communications (General Signal)	FT
Dolp SRL	EFMPT
Doty-Moore Tower Services	FT
E-N-G Mobile Systems	MP
Electronics Research	FP
Elenos	FMT
EMCEE Broadcast Products	M
ERI-Electronics Research	FMT
Fougerolle Audio/Video	M
Gabriel Electronics	M
GEC-Marconi Communications	F

Harris Broadcast (Harris Allied)
 Hero Productions E
 Hitachi Denshi FM
 HPG Industries
 (Sharb Electronics) EFMPT
 ITS MT



Jampro Antennas	FT
JNS Electronics	M
Kathrein-Werke	EFMT
Kintronic Labs	M
Lance Industries	FMT
LBA International	M
LBA Technology	M
LDL Communications	T
LeBlanc & Royle Telcom	FMT
LNR Communications	M
Loma Scientific	EPT
Magnavox	E
Marconi Communications	FTE
Marti Electronics	M
Micro Communications	FT



Microwave Radio	MP
NSI	MP
Nucomm	M
Nurad Technologies	EMP
OMB Sistemas Electronicos	FMT
Orbitron International	EP
Complete Satellite Systems	EP
Precision Specialties	P
Prodelin	E
Quickset International	P
RF Technology	EMP
Rohde & Schwarz	FT
Scala Electronic	FMT
Scientific Atlanta	E
Shively Labs	FM
SIRA Sistemi Radio	FT
SWR	FT
Technosystem	FMT
Telefunken Sendertechnik	FT
Tennaplex Systems	FT
Thomcast	FMT
Vertex Communications	EP
Viewsonics	EMT
PTL Cable Service	E

De-icer Systems

Continental Electronics	
CRS-Lanmead	
Dielectric Communications (General Signal Corp)	
Dolp SRL/ Via B. Pontecorvo	
Electronics Research	
Environmental Technology	
ERI-Electronics Research	
Ice Krackers	
Jampro Antennas	
Loma Scientific	
Southern Illinois Antennas	
SWR	
Technosystem	
Utility Tower	
Vertex Communications	
Vizcom/Satellite Systems	

Exciters, Generators

- A - AM, AM stereo
- F - FM, FM stereo, Subcarrier
- T - TV, TV stereo, SAP, PRO

Advent Communications	FT
Asaca/ShibaSoku	T
Audio Intervisual Design	A
Avocet Instruments	T
Bext	F
Broadcast Electronicsc	AF
Browning Labs	FT

Cadco	F
Cemtyts	F
Comark Communications	T
A Thomcast Co.	T
Continental Electronics	AF
Continental Microwave	T
Crown International	F
CTE International	F
DB Elettronica Telecomunicazioni	FT
Delta Electronics	A
Dolp	FT
Dorrrough Electronics	F
Elenos	FT
ELIT-Elettronica Italiana	FT
GEC-Marconi Communications	FT
Harris Broadcast (Harris Allied)	AFT
Inovonics	F
ITAME	F
ITELCO	FT
ITS	T
JT Communications	F
Larcant-TTC	FT
LDL Communications	T
LNR Communications	F
Loma Scientific	T
LPB	AF
Marconi Communications	AFT
Marti Electronics	F
Modulation Sciences	FT
Multidyne	T
Nautel Maine	AF
OMB Sistemas Electronicos	FT
Orban	AFT
Pacific Coast Marketing	AFT
QEI	F
RF Plante	T
Richard Hirschmann	T
Rohde & Schwarz	FT
SCA Data Systems	F
Sharb Electronics/ HPG Ind	AFT
Siel Sistemi Elettronici	F
Solidyne	F
Technosystem	FT
Tectan	FT
Teko Telecom	FT
Telefunken Sendertechnik	FT
Tepeco	F
TFT	F
Thomcast	AFT
VG Electronicis	F

ENG Components, Electronics

Bi-Directional Microwave	
Broadcast Microwave Services	
Continental Microwave	
E-N-G Mobile Systems	
Frontline Communications	
GI Communications	
General Instrument	
JFW Industries	
JNS Electronics	
LBA International	
LBA Technology	
Ledtronics	
Marti Electronics	



Microwave Radio	
Modulation Sciences	
NSI	
Precision Specialties	
QEI	
Tectan	
Troll Technology	

MMDS, ITFS, MDS Components, Electronics

Arden Technologies	
Browning Labs	
Cablewave Systems	
Conifer	
Continental Microwave	
Dolp	

Elenos	
EMCEE Broadcast Products	
Frequency Products	
GI Communications	
General Instrument	
ITS	
Loma Scientific	
Microwave Filter	
Microwave Radio	
Technosystem SPA	
Thomcast	
Viewsonics	

Modulators, TV

Advent Communications	
Asaca/ShibaSoku	
Astre Systems	
Barco	
Bext	
Browning Labs	
Cadco	
Comark Communication	
A Thomcast Co.	
Continental Microwave	
CTE International	
DB Elettronica Telecomunicazioni	
Dolp	
Elenos	
ELIT-Elettronica Italiana	
FUBA Hans Kolbe	
GI Communications	
General Instrument	
Harris Broadcast (Harris Allied)	
ISS Engineering	
ITELCO	
ITS	
Larcant-TTC	
LDL Communications	
Loma Scientific	
LYS Electronic DTDA	
Marconi Communications	
Marshall Electronic/ Optical Systems	
OMB Sistemas Electronicos	
Philips TV Test Equipment	
T R Pitts	

Hirschmann

Richard Hirschmann
 Rohde & Schwarz

Standard Communications

Standard Communications	
Technosystem	
Tectan	
Teko Telecom	
Telefunken Sendertechnik	
Thomcast	

Receivers, AM, FM, SCA

Advent Communications	
Audio Intervisual Design	
Avocet Instruments	
Bext	
Continental Electronics	
CTE International	
Dav Tronics	
DB Elettronica Telecomunicazioni	
Delta Electronics	
Elenos	
ELIT-Elettronica Italiana	
GI Communications	
Inovonics	
ITELCO	
Marconi Communications	
Marti Electronics	
Milestone Technologies	
Modulation Sciences	
T R Pitts	
Potomac Instruments	
Reach Electronics	
SCA Data Systems	
Technosystem	
Tectan	
TFT	

Receivers, Satellite

And associated LNA, LNC products

Advent Communications
Andrew
AVCOM of Virginia
BAF Communications
Barco
ComStream/A Spar Co
Continental Microwave
CRS-Lanmead
DH Satellite
Dolp
Elenos
ELIT-Elettronica Italiana
Fairchild Data
FUBA Hans Kolbe
GI Communications
General Instrument
International Datacasting
Intraplex
ISS Engineering
ITELCO
Kathrein-Werke
LNR Communications
Milestone Technologies
Mu-Dei Electronics
Ortel
T R Pitts
Richard Hirschmann
Scientific Atlanta
SpaceCom Systems

Standard Communications

Standard Communications
Tectan
Thomcast
Vizcom/Satellite Systems
Wegener Communications

Remote Pickup Components, Electronics

Bi-Directional Microwave
Browning Labs
Continental Electronics
Energy Plus
FM Systems
Intraplex
ITAME
JFW Industries
Marti Electronics
Microwave Filter
Microwave Radio
Moseley Associates
Pulizzi Engineering
QEI
RF Industries
Spectrum Communications
Telos Systems
TFT

Satellite T/R Components, Electronics

Excludes antennas

Advent Communications
Andrew
Astroguide
AVCOM of Virginia
Aydin West (HPA/Magnetics)
Bi-Directional Microwave
ComStream/A Spar Co
Continental Microwave
CRS-Lanmead
Dolp
EEV
ELIT-Elettronica Italiana
Fairchild Data
FM Systems
Frequency Products
Frontline Communications
GI Communications
General Instrument
Insulated Wire
International Datacasting

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durability—infused
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Circle (36) on Reply Card

Radio

Intraplex

ISS Engineering
Kathrein-Werke
LNR Communications
Magnavox
MCL
Microwave Filter
Ortel
Pagesat
T R Pitts
Pulizzi Engineering
Radiation Systems
RF Technology
Scientific Atlanta
Tectan
Varian Microwave Eqpt Products
Viewsonics
Vizcom/Satellite Systems
Wegener Communications
PTL Cable Service

STL Components & Electronics

Excludes antennas

Antel Communications
Bext
Bi-Directional Microwave
Broadcast Microwave Services
Browning Labs
Cemlys
Continental Electronics
Continental Microwave
DB Elettronica Telecomunicazioni
Dolby Laboratories
Dolp
Elenos
ELIT-Elettronica Italiana
Energy-Onix Broadcast Eqpt
FM Systems
Frequency Products
Hitachi Denshi
Intraplex
ITAME SA
JNS Electronics
Kintronic Labs
Loma Scientific
M/A-Corn
Marti Electronics
Microwave Filter
Microwave Networks



Microwave Radio
Moseley Associates



Nucomm
OMB Sistemas Electrónicos
Pulizzi Engineering
QEI
RF Plante
RF Technology
Siel Sistemi Elettronici
Technosystem
Tectan
TFT
Wegener Communications

Weather Radar RF Products

Advanced Designs
EEV
Energy Plus
Frequency Products
Kavouras
Technosystem

RDS Encoders, Monitoring Eqpt

Asaca/ShibaSoku

Access USA
Belar Electronics Lab
Broadcast Electronics
Cemlys
Elenos
Inovonics
ITELCO
JT Communications
Milestone Technologies
Modulation Sciences
QEI
RE America
Rohde & Schwarz
SCA Data Systems
Technosystem
Tectan
Telefunken Sendertechnik
TFT

CATV System Components

AVCOM of Virginia
Barco
Blonder-Tongue Labs
EEV Ltd.
Elantec
ELIT-Elettronica Italiana
FM Systems
Frequency Products
FUBA Hans Kolbe
GI Communications
Philips Broadband Networks
Philips TV Test Eqpt
T R Pitts
Richard Hirschmann
Rohde & Schwarz



Standard Communications
Trilithic
United Technologies Photonics
Viewsonics
Wegener Communications

Transmitter Systems

A - AM, SW radio
F - FM radio (excludes translators)
T - TV VHF/UHF (excludes translators)

Acrodyne Industries V
Advanced Broadcast Systems V
Astre Systems V
Bext Inc V
Bi-Directional Microwave FV
Broadcast Electronics AF
Browning Labs FV
CCA Electronics AF
CED FV
Cemlys F
Comark Communications V
A Thomcast Co V
Continental Electronics AV
Continental Microwave V
Crown International V
CTE International FV
DB Elettronica Telecomunicazioni FV
Dolp FV
Eddystone Radio AF
Elenos FTV
ELIT-Elettronica Italiana FV
EMCEE Broadcast Products V
Energy-Onix Broadcast Eqpt AF
Frequency Products F
FUBA Hans Kolbe FV
GEC-Marconi Communications AFV
Harris Broadcast (Harris Allied) AFV
HPG Ind (Sharb Electronics) AFV
Italiana Ponti Radio AF
ITAME AF
ITELCO FV
ITS V
JT Communications F

Larcant-TTC
LDL Communications
Loma Scientific
LPB
LYS Electronic DTDA
Marconi Communicationsc
Marshall Electronics
Optical Systems
Nautel Maine
NTL
OMB Sistemas Electrónicos
Philips Components
QEI
Radio Systems

FV Elenos
FV ELIT-Elettronica Italiana
V ITAME
AF Loma Scientific
V LPB
AFV Marconi Communications
MFJ Enterprises
F Mu-Del Electronics
AF OMB Sistemas Electrónicos
V QEI
FV RCA Broadcast GE Support Svcs
V Richard Hirschmann
F **SIRA Sistemi Radio**
A ST Keltec
Technosystem
Telefunken Sendertechnik
Tepco

Hirschmann



Richard Hirschmann V
Rohde & Schwarz FV
Technosystem FV
Teko Telecom FV
Telefunken Sendertechnik AFV
TEM FV
TFT V
Thomcast AFV
Toshiba V

Translators, Transposers

F - FM T - TV

Acrodyne Industries T
Bext Inc FT
Browning Labs FT
Cemlys F
Continental Electronics F
Continental Microwave T
CTE International FT
DB Elettronica Telecomunicazioni FT
Dolp FT
Elenos FT
ELIT-Elettronica Italiana FT
EMCEE Broadcast Products T
Energy-Onix Broadcast Eqpt F
Fougerolle Audio/Video T
Frequency Products FT
FUBA Hans Kolbe FT
GEC-Marconi Communications F
Harris Broadcast (Harris Allied) T
HPG Ind (Sharb Electronics) FT
ISS Engineering T
ITAME RT
ITELCO FT
ITS T
JT Communications F
Larcant-TTC FT
LDL Communications FT
Loma Scientific FT
NTL F
Old Dominion Broadcast Eng F
OMB Sistemas Electrónicos FT
QEI F

Hirschmann



Richard Hirschmann T
Rohde & Schwarz FT
Technosystem FT
Teko Telecom FT
Telefunken Sendertechnik F
Tepco FT
TFT F
Thomcast FT

Power Amplifiers, Cavities

Acrodyne Industries
AML
Audio Intervisual Design
CED
Comark Communications
A Thomcast Co
COMWAVE
Continental Electronics
Continental Microwave
CTE International
DB Elettronica Telecomunicazioni
Dolp

Elenos
ELIT-Elettronica Italiana
ITAME
Loma Scientific
LPB
Marconi Communications
MFJ Enterprises
Mu-Del Electronics
OMB Sistemas Electrónicos
QEI
RCA Broadcast GE Support Svcs
Richard Hirschmann
SIRA Sistemi Radio
ST Keltec
Technosystem
Telefunken Sendertechnik
Tepco
Thomcast
Thomson Components & Tubes
Toshiba
Varian Power Grid Tube Products
Varian Microwave Power Tubes
Varian Canada
Varian Microwave Eqpt Products

Power Combiners & Diplexers

Alan Dick
AML
Arden Technologies
Comark Communications
A Thomcast Co
COMWAVE
Continental Electronics
Continental Microwave
CTE International
DB Elettronica Telecomunicazioni
Dielectric Communications
(General Signal)
Dolp
Electronics Research
Elenos
ELIT-Elettronica Italiana
FUBA Hans Kolbe
Harris Broadcast (Harris Allied)



Jampro Antennas
JFW Industries
Kintronic Labs
Loma Scientific
Loral Microwave-Narda
LPB
Marconi Communications
Micro Communications
Microwave Filter
Mu-Del Electronics
North Hills Electronics
North Hills Signal Processing
OMB Sistemas Electrónicos
Phasetek
QEI
RCA Broadcast
GE Support Services
Richard Hirschmann
Scala Electronic
Shively Labs
SIRA Sistemi Radio
Southern Illinois Antennas
Technosystem SPA
Tennaplex Systems
Thomcast
TTE
UTE Microwave
Viewsonics
Wide Band Engineering

Power Dividers

Alan Dick
AML
Arden Technologies
AVCOM of Virginia
Comark Communications
A Thomcast Co
Continental Electronics
Continental Microwave

We don't make TVs or radios.

**(But we've helped make them
the dynamic media they are today.)**

**Harris Allied has been there
from the beginning with innovative
products and solutions.**

When Harris Allied entered the broadcast industry in 1922, commercial television was still decades away, and radio was just beginning to be established. In the years since, we have grown to become a world leader in broadcast technology and service.

Our more than 60 major innovations in broadcast engineering, distribution and service are a direct result of our commitment

to match technology with the demands of broadcasters worldwide. Today we offer more than 10,000 different products from 350-plus manufacturers, and complete systems capability.

From standard-setting radio and television transmitters, to studio and satellite equipment, fixed facilities, mobile broadcast units, expert system design, installation, and unmatched after-sale support, Harris Allied can be your one source for broadcast solutions that work.

As broadcasting continues to change our world, the people of Harris Allied will continue to be at the forefront of the industry as it shapes the way the world sees and hears itself.

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or fax 217-224-1439
International: 217-222-8290
or fax 217-224-2764**



Radio

DB Elettronica Telecomunicazioni

Dielectric Communications
(General Signal)

Dolp
Electronics Research
Elenos
ELIT-Elettronica Italiana
FUBA Hans Kolbe
Jampro Antennas
JFW Industries
Kintronic Labs
Loma Scientific
Loral Microwave-Narda
Marconi Communications
Micro Communications
Mu-Del Electronics
MYAT
North Hills Electronics
North Hills Signal Processing
OMB Sistemas Electronicos
Richard Hirschmann
Scala Electronic
Shively Labs

SIRA Sistemi Radio

Southern Illinois Antennas
SWR
Technosystem
Tennaplex Systems

Thomcast

Wide Band Engineering

Pressurization Eqpt

Andrew
Arden Technologies

Cablewave Systems
Continental Electronics
Dielectric Communications
(General Signal)
Dolp
Environmental Technology
Jampro Antennas
LeBlanc & Royle Telcom
Loma Scientific
Marconi Communications
Shively Labs
SIRA Sistemi Radio
Southern Illinois Antennas
SWR
Technosystem

Switchers, RF Coaxial

Alan Dick &
Bird Electronic
Comark Communications
A Thomcast Co
Continental Electronics
DB Elettronica Telecomunicazioni
Delta Electronics
Dielectric Communications
(General Signal)
ELIT-Elettronica Italiana
GEC-Marconi Communications
Jampro Antennas
JFW Industries
Kintronic Labs
LBA Technology
Leitch
Loma Scientific
Loral Microwave-Narda
Marconi Communications
MFJ Enterprises
Micro Communications
Monroe Electronics
Pacific Radio Electronics

RIZ-Transmitters
Shively Labs
SIRA Sistemi Radio
SWR
Technosystem

Telect

CONNECTING THE FUTURE™

Telect
Telefunken Sendertechnik
Tel-Test
Tennaplex Systems
Thomcast
Trilithic
Wide Band Engineering

Transformers, Power, Modulation

DB Elettronica Telecomunicazioni
Dielectric Communications
(General Signal)
EPE Technologies/Square D
Jampro Antennas
JFW Industries
North Hills Signal Processing
Perma Power Electronics
Peter Dahl
Philips Components
RCA Broadcast/GE Support
Services
Technosystem
Telefunken Sendertechnik
Thomcast

Transmission Line, Waveguide

Alan Dick
Andrew
Arden Technologies
Broadcast Communications
Cablewave Systems
Comark Communications
A Thomcast Co
COMWAVE
Continental Electronics
Dielectric Communications
(General Signal)
Dolp
Doty-Moore Tower Services
Electronics Research



Jampro Antennas
JoLida
LeBlanc & Royle Telcom
Loma Scientific
Loral Microwave-Narda
Marconi Communications
Micro Communications
Microlect
MYAT
Nucomm
Phasetek
RIZ-Transmitters
Scala Electronic
Shively Labs
Southern Illinois Antennas
Technosystem

Universal Audio/Video Sync Generation

Digital Audio Conversion, Processing & Sync

Digital Audio Transmission

Digital Audio Sample Rate Conversion

Synchronous AES/EBU Digital Audio Routing

AES/EBU & Time Code Routing

RS-422 Control Data Routing

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Circle (45) on Reply Card

SUCCESS STORY.



Which company delivers maximum efficiency in high power IOT UHF transmitters?

80kW IOT High Definition Ready (HDR) Transmitter sold to KCSM, San Mateo/San Francisco, CA

LARCAN-TTC is the answer. We're so successful in today's competitive transmitter market because everything we build is designed for simplicity, efficiency, reliability and long life. And everything we sell is backed by the resources of the LeBlanc Communications Group, one of the world's largest suppliers of RF transmission equipment and services.

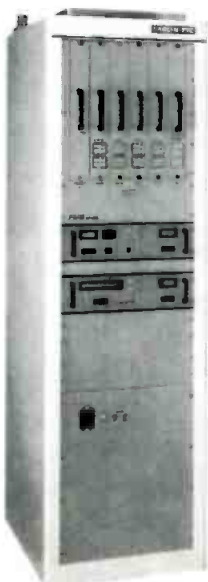


Which company's low power UHF transmitters and translators are specified in FCC filings three times more often than all other competitors combined?

XLS Series LPTV Transmitters/translators: 1w-1kW, 100 watt shown

Who has sold more high power solid-state FM transmitters than anyone else?

FMS Series FM transmitters: 1 kW-8kW



Whether it's a 50 watt translator or a 240kW powerhouse, when you're ready to upgrade your UHF or FM facility, look to LARCAN-TTC. And for North America's most popular VHF transmitter, it's the legendary solid state LARCAN M Series. Let us help you write your own success story. Call LARCAN-TTC for the full story on our complete product line.

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LARCAN TTC

 **LeBLANC**

Circle (46) on Reply Card

www.americanradiohistory.com

Radio

Telefunken Sendertechnik
Thomcast
 Utility Tower

Transmitter Remote Control, Telemetry

Includes transmitter logging systems.

Burk Technology
Conex Electro Systems
Continental Electronics
 CTE International
DB Elettronica Telecomunicazioni
 Dolp
 Electronics Research
 Elenos
 ELIT-Elettronica Italiana
 GEC-Marconi Communications
 Gentner Communications
 Hallikainen & Friends
Harris Broadcast (Harris Allied)
Intraplex
 Marconi Communications
 Moseley Associates
 NTL
 Potomac Instruments
 Practel International
 Pulizzi Engineering
 RF Technology
Schmid Telecom
 Technosystem
 Telefunken Sendertechnik
Thomcast
 Troll Technology

Tubes & Solid-state Devices

K - Klystron, IOT, TWT power devices
 P - Power Tetrodes, Triodes
 R - Rectifiers, vacuum tube & solid-state

Advent Communications K
 Astre Systems K
 Audio Intervisual Design R
 BAF Communications K
 Broadcast Devices P
 BURLE INDUSTRIES P
 California Tube Lab KP
 Comark Communications
 A Thomcast Co KP
Continental Electronics PR
 Daily Electronics KPR
DB Elettronica Telecomunicazioni PR
 Econco KP
EEV KPR
 Elenos PR
 ELIT-Elettronica Italiana PR
 Fusion Electronics KPR
 Jolida K
 Loma Scientific K
 MCL K
 Motorola Semiconductor Products Sector PR
 Newark Electronics R
 Penta Labs KPR
 Philips Components KR
 Richardson Electronics PR
 Sharb Electronics/ HPG Ind KR
 ST Keltec K



Svetlana Electron Devices KPR
Thomson Tubes Electronics KP
 Thor Electronics KR
 Vacuum Tube Industries PR
 Varian Power Grid Tubes KP

Varian Microwave Power Tubes KPR
 Varian Canada K
 Varian Microwave Eqpt Products K

Vacuum Contactors

Advanced Broadcast Systems
 JoLida
 Kintronic Labs
 LBA Technology
 Phasetek
 Surcom Associates
 Svellana Electron Devices
 Vacuum Tube Industries

Towers, Antenna Support

Alan Dick
 Allied Tower
 Aluma Tower
 Andrew
 Broadcast Communications
 Central Tower
Continental Electronics
 Electronics Research
 ERI-Electronics Research
 Express Tower
 FWT
 GEC-Marconi Communications
 Jampro Antennas
 Kline Towers
 LBA Technology
 LDL Communications
 LeBlanc & Royle Telcom
 Magnum Towers
 Malouf Engineering International
 Marconi Communications
 Microfect
 Fred A Nudd
 PiROD
 T R Pitts
 ROHN
 SG Communications
 Stainless
 Swager Communications
 SWR
 Technosystem
 Teko Telecom
 Telefunken Sendertechnik
 Tenco Tower
Thomcast
 Transmission Structures
 Trylon Towers
 Utility Tower
 Valmont Industries/ICPD
 Will-Burt

Tower Lighting Systems

A - Accessories, guys, insulators
 L - Tower lighting products
 P - Portable masts

Alan Dick AL
 Allen Osborne Associates P
 Aluma Tower LP
 Electronics Research ALP



Flash Technology L
 Kline Towers AL
 PiROD A
 T R Pitts AL
 Will-Burt P

Computer & Automation Products

Business Automation

Hardware eqpt and software
 CBSI-Custom Business Systems
 Columbine Systems
 Computer Engineering Associates
 Data Center Managements
 Datacount
 Enterprise Systems
 Imagine Products
 Jefferson-Pilot Data Services
 LPB
 The Management
 MBS Technologies
 MEMEX Software
 NDG Phoenix
 Nesbit Systems
Panasonic Pro Audio/Ramsa
 Professional Management Services



Radio Computing Services/RCS
 R C S Traffic
 Sony Business & Professional Group
 Summit Software Systems
 Tapscan
 Unique Business Systems
 Video Communications
 Xymox Systems

Commercial Insertion Systems

VCR sequencing systems with control, switching for video, audio for LPTV, CATV, etc.

ADT (Applied Digital Technology)
 Adtec Productions
 Alamar Electronics USA
 American Broadcast Systems
Asaca/ShibaSoku
 AVID Technology
 BCD Associates
 Channelmatic
 FloriCal Systems
 FSR
 IGM Communications
 Image Video/Div of 1077541 Ontario
 Leightronix
Louth Automation
 MATCO
 MEMEX Software
 The Network Connection
Odetics Broadcast
Panasonic Broadcast & Television Systems



PLANONTELEXPERTISE

Planon Telexpertise
 Softel Systems
 Solutec
 Sony Business & Prof Group
 Sundance Digital
 Tech Electronics
 Texscan MSI
 Time Logic
 Video Data Systems
 Videoquip Research

Computers & Peripherals

Includes PCs, VDT terminals,

touch-screen control adaptations; engineering management, maintenance and non-production software.

Adrienne Electronics
 Alamar Electronics USA
 Aydin Controls
 B&B Electronics Mfg
 BGW Systems
 CH Products
 Columbine Systems
 Computer Engineering Associates
 Crestron
 J E Cuesta
 Diaquest
 Extron Electronics
 HES Electronics
 IBM
 ict
 Industrial Computer Source
 Interlace Engineering
 ISC Datacom
 JLC Cooper Electronics
 Kensington Microwave
 Knox Video
 Lazerus
 Media Touch Systems
 Meirick
 Micro Express
 NDG Phoenix
 The Network Connection
 Network Technologies
 Newark Electronics
 NuMedia
Pro-Bel
 Professional Management Services
 Prophet Systems
 QSC Audio Products
 RGB Computer & Video
 Rorke Data
 Scott Studios



Sealevel Systems
 Silicon Graphics
 Tech Electronics
 TECH-SA-PORT
 Truevision/Raster Ops

Engineering Software

C - Drawing, CAD
 D - Diagnostics, maintenance

AAVS/Advanced Audio Visual Systems D
 American Small Business Computers C
 Computer Assisted Technologies D
 DATA Business Publishing D
 DesignCAD C
 EDX Engineering D
 HES Electronics D
 JNS Electronics D
 Lazerus D
 NDG Phoenix D
 The Network Connection D
 QSC Audio Products D
 ScheduALL by VisuAll D
Schmid Telecom D
 ShuttleCad C
 SoftWright LLC D
 Truevision/Raster Ops D



VDP C

Newsroom Automation

Dedicated, PC-based, supporting software packages.

AEQ
The Associated Press
 Autocue

AVID Technology
 AVS Graphics
 A-Ware Software
 BASYS Automation Systems
 Broadcast Electronics
 Broadcast Software
Colorgraphics - Dynatech
 Columbine Systems
 Comprompter
 Computer Engineering Associates
 Data Center Managements
 DCM
 Designing Minds
Dynatech Video Group
 Harrison by GLW
 HES Electronics
 ict
 Imagine Products
 Inscribe Character Generator
 Interlace Engineering
 IRIS Technologies
 JLCoooper Electronics
Louth Automation
 LPB
 Media Computing
 The Network Connection
 News Technology Corporation
 NewsMaker Systems
Newstar - Dynatech
 Newswire 2000
 NSI
 Nytone
 Ogenic Technologies
Panasonic Broadcast & Television Systems

The Sports Network
 Studer Digitec
 Tel-Test
Thomson Broadcast
 Videoquip Research
 Vistek Electronics

**Playback
 Automation**

Audio/radio systems

**AAVS/Advanced Audio Visual
 Systemes**

Adtec Productions
 AEQ SA
 AEV SNC di Vaccari G & C
Asaca/ShibaSoku
 Augan Instruments
 AVS Graphics
 A-Ware Software
 Broadcast Automation
 Broadcast Electronics
 Broadcast Programming
 CBSI-Custom Business Systems
 Channelmatic
 Clark & Associates
Conex Electro Systems
 Crown International
 EuroSon America
 NSM Consumer Electronics
 HES Electronics
 IGM Communications
 Image Video/Div of 1077541 Ontario
 JLCoooper Electronics
 LPB
 The Management
 McCurdy Radio Industries
 Media Touch Systems
 Ogenic Technologies
 Philip Drake Electronics
Pro-Bel
 Professional Management Services
 Prophet Systems



Radio Computing Services/RCS
 Radio Systems
 RCS/Radio Computing Systems
 Schafer World Communications
 Scott Studios
 Sentry Systems
 Smarts Broadcast Systems
 Sonifex
 Sony Business & Prof Group
 Studer Digitec
 TM Century
 Video Data Systems

**Record & Playback
 Automation**

Video/TV systems, including
 time-shift delay

**AAVS/Advanced Audio Visual
 Systemes**

Adtec Productions
 Alamar Electronics USA
 American Broadcast Systems
 Augan Instruments
 AVID Technology
 AVS Graphics
Cipher Digital
 Clark & Associates
 Comprompter
 Diaquest
 EVS Broadcast Equipment
 Fast Forward Video
 FlorCal Systems
 Future Editing Eqpt Deslgn/FED
 Harrison by GLW
 Image Video/Div of 1077541 Ontario
 Interlace Engineering

Computer

JLCooper Electronics
 Leightronix
Louth Automation
 The Management
 MATCO
 McCurdy Radio Industries
 Media Computing
 MEMEX Software
 The Network Connection
 Nytone
Odetics Broadcast
Panasonic Broadcast & Television Systems
 Phillip Drake Electronics



PLANON TELEXPERTISE

Planon Telexpertise
Pro-Bel
 Radio Systems
 Recognition Concepts
 Solutec
 Sony Business & Prof Group
 Spaceward Graphics
 Tech Electronics
Tektronix
 Tel-Test
 Texscan MSI
Thomson Broadcast
 Time Logic
Utah Scientific - Dynatech
 Video Data Systems
 VideoFusion
 Vistek Electronics
 Zaxcom



Radio Computing Services/RCS
Schmid Telecom
 Softech Systems
 Sonifex
 Spaceward Graphics
 Sports Network

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FM TRANSMITTERS

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B.E.	17.95%	85.71%	85.71%
COLLINS	7.69%	66.67%	33.33%
Continental	28.21%	100.00%	100.00%
HARRIS	28.21%	72.73%	72.73%
RCA	8.97%	28.57%	28.57%
OTHER	8.97%	28.57%	42.86%

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Continental Electronics Corporation

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7.94-018

Circle (47) on Reply Card

Test & Measurement

Analyzers, Audio System

Includes distortion measurement and automated systems

AAVS/Sencore

Acoustech
Alphaton Elektroakustik
Asaca/ShibaSoku
Audio Precision
AudioControl Industrial

BOLAND COMMUNICATIONS

Boland Communications
Boonton Electronics
Brüel & Kjær Instruments
Dwight Cavendish
Circuit Research Labs
Consultronics
Dorrough Electronics
EIP Microwave
G Prime
Gauss

GEE Broadcast Systems
Group One
Hewlett-Packard
Ivie Technologies
Jason Electronics
JNS Electronics
Klark Teknik
Mark IV Pro Audio Group
MicroAudio
National Instruments
Neutrik Instrumentation
Pacific Coast Marketing
Potomac Instruments
Prism Media Products
Pro-Bel
Richard Hirschmann
Sabine
Sample Rate Systems

Schmid Telecomm
Sound Technology
Stanford Research Systems
TC Electronic
Techni-Tool
Tektronix
Telecommunications Techniques
TFT
Titus Technological Labs
Tremetrics
Wandel & Goltermann
Wide Band Engineering
XTA Electronics
PTL Cable Service

Analyzers, RF, Spectrum/Sideband

AAVS/Sencore
Anritsu Wiltron
AVCOM of Virginia
BAF Communications
Boonton Electronics
Dwight Cavendish
Delta Electronics
ELIT-Elettronica Italiana
Hewlett-Packard/VID Div
Kay Elemetrics
LNR Communications
MFJ Enterprises
Philips Broadband Networks
Rohde & Schwarz
Techni-Tool
Tektronix
Telecommunications Techniques
Wandel & Goltermann
Wide Band Engineering
PTL Cable Service

Analyzers, Video System

Includes automated systems

AAVS/Advanced Audio Visual Sys
Asaca/ShibaSoku
Boland Communications
Dwight Cavendish
Colorado Video
Electronic Visuals
GEE Broadcast Systems
Hewlett-Packard

MAGNI

Magni Systems
Pacific Coast Marketing
Planon Telexpertise
Plateau Digital Technology
Pro-Bel
Richard Hirschmann
System Video
Techni-Tool
Videotek
Viewtronics
PTL Cable Service

Antenna Impedance Bridges

Delta Electronics
Eagle Wichita
MFJ Enterprises
Rohde & Schwarz
Wide Band Engineering
PTL Cable Service

Audio Generators

Stand-alone systems

AAVS/Sencore
Asaca/ShibaSoku
Audio Precision
Boonton Electronics
Conex Electro Systems
Danbridge
Fougerolle Audio/Video
G Prime
HEDCO
HES Electronics
Hewlett-Packard
Ivie Technologies
JNS Electronics

9.5" x 2.5" x 1"

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P.O. Box 1342 Bellingham, WA 98227

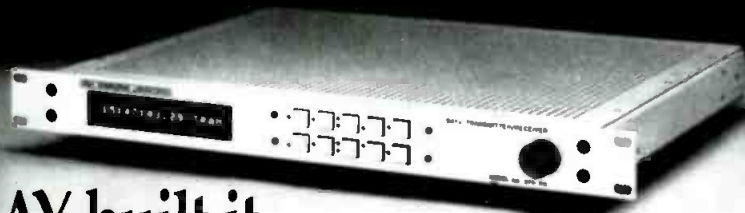
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Circle (49) on Reply Card

You asked for it.

DTR-313 Time Code Reader /Generator

LTC Generator • VITC Generator • Wide Band LTC Reader
VITC Reader • Character inserter • Slave • Slave to time code in user bits
Auto Sync Sense SMPTE/EBU/655-24 • User bit manipulation • Color Frame
Full Front Panel Control • Serial Remote Control • Local Display
Upgradable • All in one rack unit



GRAY built it.

Introducing the DTR-313. Eight fully upgradable standard configurations available. Custom configurations including component video available by special order. The DTR-313 is available NOW. Prices start at \$2805.00 list, including five-year parts and labor warranty.

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Circle (50) on Reply Card

Leader Instruments
Magni Systems
Multidyne
Neutrik Instrumentation
Pacific Coast Marketing
Potomac Instruments
Rohde & Schwarz
Sample Rate Systems
Scantex Labs
Sescom
Sound Technology
Stanford Research Systems
TC Electronic
Tektronix

Bench Power Supplies

AAVS/Sencore
Calex Mfg
Fluke
JFW Industries
Leader Instruments
Multidyne
Newark Electronics
Pulizzi Engineering
Sorensen Co/Switchcraft
Stanford Research Systems
Techni-Tool
Tripp Lite

Demodulators, TV Precision

Advent Communications
Barco
Belar Electronics Lab
Hewlett-Packard
Philips TV Test Equipment
QSI Systems
Richard Hirschmann
Rohde & Schwarz
Tektronix
TFT
Videotek
PTL Cable Service

Detectors, Non-ionizing Radiation

Holaday Industries
JFW Industries
Loral Microwave-Narda

Digital Diagnostic Systems

AAVS/Sencore
GEE Broadcast Systems
Jensen Tools
Prism Media Products
Sample Rate Systems
Sprocket Digital
Tektronix
Telecommunications Techniques
Viewtronics
Wavetek Instrument Div

Frequency Counters

AAVS/Sencore
Belar Electronics Lab
J E Cuesta
EIP Microwave
Fluke
Hewlett-Packard/VID Div
Jensen Tools
Leader Instruments
MFJ Enterprises
Newark Electronics
Pacific Coast Marketing
Schmid Telecom
Simpson Electric
Stanford Research Systems
PTL Cable Service

Meters, AC Power & Phase

F W Bell
J E Cuesta

Dranetz Technologies
Fieldpiece Instruments
Hewlett-Packard
Holaday Industries
Jensen Tools
Newark Electronics
A W Sperry Instruments
SSAC
Techni-Tool
Tektronix
Viewsonics
Wavetek CInstrument Div

Meters, Audio Level

AAVS/Advanced Audio Visual Systemes
Acoustech
ADM Systems
Alphaton Elektroakustik
ATI-Audio Technologies
B&B Systems
Boland Communications
Dwight Cavendish
Continental Electronics
J E Cuesta
Dorrough Electronics
ESE
FM Systems
G Prime
Image Video/Div of 1077541 Ontario
Inovonics
JNS Electronics
Leader Instruments
McCurdy Radio Industries
Multidyne
NTP Elektronik
Radio Design Labs
Radio Systems
Ram Broadcast Systems
Scantex Labs
Selco Products
Simpson Electric
Solutec
Techni-Tool
TFT
Titus Technological Labs
Valley Audio Products
Videoquip Research
Ward-Beck Systems

 **Wohler Technologies**
Integrative Audio-Multimedia Systems

Wohler Technologies
XTA Electronics

Meters, DVMS, DMMs, VOM

F W Bell
J E Cuesta
Fieldpiece Instruments
Fluke
Hand Tool Industries
Hewlett-Packard
Leader Instruments
Newark Electronics
Outland Technology
Pacific Coast Marketing
Rohde & Schwarz
Simpson Electric
Techni-Tool
Triplet
Wavetek Instrument Div

Meters, Field Strength, RF Level

AAVS/Sencore
R B Annis
Anritsu Wiltron
AVCOM of Virginia
Coaxial Dynamics
Continental Electronics
Eagle Wichita
EIP Microwave
Hewlett-Packard/VID Div
Holaday Industries
Kathrein-Werke
Potomac Instruments
Rohde & Schwarz
Techni-Tool
Tektronix

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Circle (48) on Reply Card

Test

Wavetek Instrument Div
PTL Cable Service

Meters, Light

Includes monitor color balance measurement, adjustment systems.

FM Systems
Minolta Instrument Systems Div
Philips TV Test Equipment
A W Sperry Instruments
Techni-Tool
Tektronix

Meters, RF Power

Anritsu Wiltron
Bird Electronic
Boonton Electronics
Coaxial Dynamics
Continental Electronics
J E Cuesta
Dranetz Technologies
EIP Microwave
GI Communications
Hewlett-Packard/VID Div
Loral Microwave-Narda
MFJ Enterprises
Rohde & Schwarz
Techni-Tool
Triplet
Viewsonics
PTL Cable Service

Modulation Monitors

AM, FM radio, TV aural

Belar Electronics Lab
Boland Communications
Boonton Electronics
Continental Electronics
Dav Tronics
Delta Electronics
FM Systems
Inovonics
Leader Instruments
Modulation Sciences
QEI
TFT

Oscilloscopes, Accessories

AAVS/Sencore
Continental Electronics
Dranetz Technologies
Fluke
Hewlett-Packard/VID Div
Hitachi Denshi America
Jensen Tools
Leader Instruments
Newark Electronics
Pacific Coast Marketing
Philips Components
Photomart Cine-Video
A W Sperry Instruments
Techni-Tool
Tektronix
Test Probes
PTL Cable Service

Recorder Tension, Alignment Eqpt

Tentel

PC-based Displays; Interactive, Tally, Source ID

Tally Display

RF Generators

Stand-alone

Anritsu Wiltron
Asaca/ShibaSoku
AVCOM of Virginia
Boonton Electronics
Fluke
Hewlett-Packard
Kay Elemetrics
Leader Instruments
Pacific Coast Marketing
Philips TV Test Equipment
Potomac Instruments
Rohde & Schwarz
PTL Cable Service

RF Load Resistors, Dummy Loads

AAVS/Sencore
Altronic Research
Bird Electronic
Coaxial Dynamics
Continental Electronics
Dielectric Communications
(General Signal)
Eagle Wichita
Electro Impulse Lab
Jampro Antennas
JFW Industries
LBA Technology
Loral Microwave-Narda
Marconi Communications
MFJ Enterprises
RF Industries
Technosystem
Triiithic
UTE Microwave
Wide Band Engineering

SC/H Phase Measurement, Displays

Excludes waveform, vector monitors with SC/H phase measurement capability

Alphaton Elektroakustik
Asaca/ShibaSoku
Dranetz Technologies
GEE Broadcast Systems
James Grunder & Associates
Leader Instruments
Leitch
Link Electronics
Philips TV Test Equipment
Plateau Digital Technology
System Video
Techni-Tool
Tektronix
Telecommunications Techniques
Videotek

Test, Alignment Records, Tapes, CDs

Acoustic Sciences
ASC-Tube Traps
Audio Intervisual Design
G Prime
Hamlet Video International
KABA Research & Development
Sprague Magnetics

Test Charts, Slides

Includes illuminators.

BPI/Porta-Pattern
Nalpak Video Sales
Photomart Cine-Video

Test, Alignment Tapes

Audio Intervisual Design
Energy Plus
Hamlet Video International

JRF Magnetic Sciences
Photomart Cine-Video
Standard Tape Laboratory

Thermal Measuring Devices

Solder Absorbing Technology-SAT S

VITS, VIRS Generators, Inserters

AAVS/Advanced Audio Visual Systemes
Asaca/ShibaSoku
Leitch

MAGNI[®]

Magni Systems
Microvideo
Multidyne
Philips TV Test Equipment
System Video
Techni-Tool
Tektronix
Titus Technological Labs
VG Broadcast
PTL Cable Service

Time Domain Reflectometers

Anritsu Wiltron
Delta Electronics
Hewlett-Packard
Joslyn Electronic Systems
Riser-Bond Instruments
Techni-Tool
Tektronix
Telecommunications Techniques
Wavetek Corp/Instrument Div
PTL Cable Service

Video Signal Monitors

C - Combo waveform/vector
S - In-picture videoscope
V - Vectorscope
W - Waveform monitor

Asaca/ShibaSoku **VW**
FM Systems **W**
Hamlet Video **vwcs**
Hamlet Video International **CSVW**
Hewlett-Packard/VID Div **V**
Hitachi Denshi America **VW**
James Grunder & Associates **vwcs**
Magni Systems **vw**
Philips TV Test Equipment **vwcs**
Photomart Cine-Video **vw**
Techni-Tool **vcw**
Tektronix **CSVW**
Telecommunications Techniques **w**
Wavetek Instrument Div **w**
PTL Cable Service **CSVW**

Video Generators

Pattern, blackburst, color bar; includes programmable systems.

AAVS/Sencore
Bio-Electronics
Boland Communications
Burst Electronics
Colorado Video
DT Electronics
DTL Broadcast
EEG Enterprises
ESE
Extron Electronics
Fluke
GEE Broadcast Systems
Hamlet Video International
HEDCO
Horita
Knox Video
Leader Instruments
Leitch
Link Electronics

Magni Systems
MicroVideoOffices
Microvideo
Multidyne
Network Technologies
Pacific Coast Marketing
Philips TV Test Equipment
Pro-Bel
Rohde & Schwarz
Snell & Wilcox
Stanford Research Systems
System Video
Techni-Tool
Tektronix
Tel-Test
Video Accessory
Videotek
PTL Cable Service

VSWR Indicators, Detectors

Eagle Wichita
Hewlett-Packard/VID Div
JFW Industries
Loral Microwave-Narda
MFJ Enterprises
Techni-Tool
PTL Cable Service

Ancillary & Support Equipment

EBS Eqpt

Encoders, decoders

Continental Electronics
Gorman-Redlich Mfg
IRT Electronics
Pacific Recorders & Engineering
T R Pitts
Technet Systems Group
TFT
Video Data Systems

Faders, Attenuators

Console replacement and automated faders; audio attenuator pads.

ADM Systems
API-Audio Products
Broadcast Devices
Elantec
LPB
Georg Neumann
Penny & Giles
Photomart Cine-Video
QSC Audio Products
Shalco
Siemens Audio
Tech Labs

Acoustic Materials

Acoustic Sciences
Alpha Audio Acoustics
Acoustical Solutions
ASC-Tube Traps
Industrial Acoustics
Lakeside Associates
Netwell Noise Control
Photomart Cine-Video
Professional Audio Supply
RPG Diffusor Systems
Silent-Source
Solidyne
Sonex-Source

Sonex/Ilbruck
Systems Development Group
USAfoam

Attenuators, Fixed, Impedance Matching

Allen Avionics
Atlas/Soundolier
Comark Communications
A Thomcast Co
Comband/Microwave Filter
Dielectric Communications
(General Signal)
EDCOR Electronics
FSR
Har-Ken Specialties
Henry Engineering
JFW Industries
Kings Electronics
Kintronic Labs
Loral Microwave-Narda
Penstock
Photomart Cine-Video
Radio Design Labs
RF Industries
RIZ-Transmitters
Tech Labs
3M Telecom Markets
Trilithic
Trompeter Electronics
PTL Cable Service

Batteries, Chargers, Analyzers, Reconditioners

Adcour
Alan Gordon Enterprises
Alexander Batteries
Anton/Bauer
Cadex Electronics

Christie Electric
Cine 60
Computer Power
Cool-Lux Lighting Industries
Duracell USA
Energex Systems
Frezzolini Electronics
G&M Power Products
Gray Supply
HM Electronics
I-Den Videotronics
Indus-Tool
Newark Electronics
ORA Electronics
Paco Electronics USA



PAG
PEP
Periphex
PERROTT 'The Battery People'
Photomart Cine-Video
Pro Battery



Rathbone Energy Systems
Reliance Comm/Tec
Sony Business & Prof Group
Synergistic Batteries
Systems Wireless
Total Concept Sales
Tungstone Batteries
Victory Battery
Whirlwind
ZZZap Power

Blowers, Fans

Ventilation products; includes
facilities air-conditioning
systems.

Atlas/Soundolier
BGW Systems
Bud Industries
J E Cuesta
Electrorack Products
Emcor Products/ Crenlo
General Devices
Mole-Richardson
Newark Electronics
Winsted

Capacitors, HV

Audio Intervisual Design
Newark Electronics
NWL Capacitors
Philips Components
Plastic Capacitors
Surcom Associates

Carts, A/V Eqpt Utility

Advance Products
Alan Gordon Enterprises
Anthro
Arcor Broadcast Products
Audiopak
Bretford Mfg
Clipper Products
Creative Engineering
Display Devices
Femo Salesmaker
Future Editing Eqpt Design/FED
Hoodman
Lucasey Mfg

Ancillary

Luxor
Nalpak Video Sales
Neumade Products
Parsons Mfg
Peerless Industries
Photomart Cine-Video
Smith System
Star Case Mfg
Techni-Tool
Winsted

Cases, Eqpt Transport, Tape

Aarmor Case
Alan Gordon Enterprises
Anvil Cases
ASA Productions
Bud Industries
Calzone Case
Clipper Products
Creative Engineering
CSI Camera Support Int'l
Duracase
EDAK
Hand Tool Industries
Hardigg Cases/Hardigg Industries
Howe Industries
IPK Broadcast Systems
Island Cases
Kangaroo Video Products
K&H Products
Lightware
LM Engineering
Nalpak Video Sales
Neumade Products
Parsons Mfg

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Replace with low-cost ESDI Drives on:

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Harris IRIS

Quantel

The BTI Adapter Assembly interfaces a reliable low-cost ESDI drive to your current Still Store SMD controller. Don't repair SMD drives; upgrade your system to ESDI drives.

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- Decrease your repair costs & power consumption
- No hardware changes to SMD controller required
- Drive conversion is transparent to operating software



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EUROPE: BTI Computer Systems U.K. Ltd., Pitmaston, Moor Green Lane

Moseley, Birmingham, England B13 8NG (021) 449-8000

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Ancillary

Penn Fabrication
Photomart Cine-Video
Plastic Reel Corp of America
Power Mark Case
Reliance Plastics & Packaging
RTI-Research Technology Int'l
Seam-Tech
SKB Case
Star Case Mfg
Techni-Tool
Tek Media Supply
Telepak San Diego
Thermodyne International
Viewsonics
Viking Cases

Cleaning, Conditioning Treatments

- C - Contact enhancement products
- T - Abrasives, abrasive tapes

CAIG Laboratories



STABILANT 22

DW Electrochemicals
E C Mitchell
Pacific Radio Electronics
Professional Audio Supply
Tayo Industries
Techni-Tool
TECH-SA-PORT
Tek Media Supply
3M Telecom Markets

Clocks

Master, synchronized studio time displays.

AAVS/Advanced Audio Visual Systems

AEV SNC di Vaccari G & C
Autogram
AVS Graphics
BAI Systems
Beaveronics
ChronTrol

Continental Electronics



ESE

Evertz Microsystems
HES Electronics
Horita
Leitch
maney-logic
Ram Broadcast Systems
Torpey Controls
Vortex Communications

Components, Active

Transistors, ICs

D A T A Business Publishing
DT Electronics
Elantec
Energy Plus



Gennum
Pacific Radio Electronics
Penstock
Valley Audio Products

Connectors, All Types

AAVS/Advanced Audio Visual Systems

ADC Telecommunications

Alpha Wire
AMP
Arcor Broadcast Products
Audio Accessories
Cablewave Systems



Canare Cable

Carmen Abato Enterprises Inc/CAE

Clark Wire & Cable

Cole Wire & Cable
Comark Communications
A Thomcast Co
COMWAVE
Connectronics
Deltron Components
DGS Pro Audio
Energy Plus
Extron Electronics



GEPCO INTL INC
CHICAGO, IL

Gepco International

Har-Ken Specialties
Imagine Products
Jampro Antennas
Jensen Tools
Kings Electronics
LBA International
LBA Technology
Lemo USA
Marshall Electronics Inc/ Optical Systems Div.
Nemal Electronics Int'l



Neutrik USA
Newark Electronics
OMB Sistemas Electronicos
ORA Electronics
Panduit
Penstock
Philips Components
Photomart Cine-Video
T R Pitts
Reliance Comm/Tec
RF Industries
Siecor

SIRA Sistemi Radio

Specialty Connector

Switchcraft

TASCAM
Techni-Tool
Technosystem SPA
Tenco Tower
3M Telecom Markets
Trompeter Electronics
Union Connector
VEAM/Litton Systems
Viewsonics
Whirlwind
Wireworks
Woods Industries

Components, Passive

Including capacitors, inductors, coils, resistors, switches, indicator lamps and K - Key caps

Comark Communications

A Thomcast Co
DT Electronics
Jampro Antennas
Jensen Transformers
JFW industries
Kintronic Labs
Lamp Technology
LBA Technology
Ledtronics
Newark Electronics

Phasetek
Plastic Capacitors
UTE Microwave
Vantage Lighting
Veetronix Inc

Fiber-Optic Components

FO terminal equipment

ADC Telecommunications

AMP
Arcor Broadcast Products
Artel Communications
C-COR/COMLUX
Clark Wire & Cable
DiCon Fiberoptics
DT Electronics
DYNAIR Electronics
Fiber Options
Fotec
GEE Broadcast Systems
GI Communications

Grass Valley Group

Grass Valley Group

Intraplex
IRT Electronics Pty
Kathrein-Werke KG
Kings Electronics
Lightwave Communications
Lightwave Systems
Ortel
Philips Broadband Networks
Philips Components
T R Pitts
ProBot Communications
Siecor
Sonic Solutions
Techni-Tool
Tekniche



Telecast Fiber Systems
Telect
Telemetrics
3M Telecom Markets
TMT electronics
Toshiba
T-Tech
United Technologies Photonics
VEAM/Litton Systems
VYVX

Film Cleaning, Inspection, Processing Eqpt

Alan Gordon Enterprises
Image Design Film Technologies
Lipsner-Smith
Neumade Products
Options International
Photomart Cine-Video
RTI-Research Technology Int'l
Steenbeck
Tek Media Supply

Filters, Video Hum-reduction

Allen Avionics
APS Professional Video Products
Audio-Video
Broadcast Video Systems
Deerfield Laboratory
DT Electronics
Energy Plus
FM Systems
IRT Electronics
KR Electronics
Microwave Filter
North Hills Electronics
North Hills Signal Processing
Photomart Cine-Video
Sabine
Television Equipment Associates

TTE Video Accessory

Hardware, Eqpt Mounting

AAVS/Advanced Audio Visual Systems

Adtec Productions
BGW Systems
Dwight Cavendish
CH Products
Continental Electronics
General Devices
GKM Mfg
IPK Broadcast Systems
Keystone Metal Products
Lucasey Mfg
Newton Instrument
Nigel B Furniture
Peerless Industries
Photomart Cine-Video
Pivotelli/USA
Roll-A-Reel
Seam-Tech
Siecor
SVS
Theatre Service & Supply
Viewsonics

Labels, Adhesive-backed

Cart, cassette, ID, cabling, panel.

Panduit
Photomart Cine-Video
Polyline
Professional Label
Siecor
3M Telecom Markets
United Ad Label
US Tape & Label
Video-Matic Group

Lights, Studio On-air Warning

AAVS/Advanced Audio Visual Systems
Energy Plus
Henry Engineering
L E Nelson Sales
Lenbar Electronics
Ogenic Technologies
Photomart Cine-Video
Titus Technological Labs
Vantage Lighting

Patch Panels, Accessories, Cables

AAVS/Advanced Audio Visual Systems

ADC Telecommunications
AMP
Arcor Broadcast Products
Audio Accessories
Auteri Technical Services
Avitel Electronics
Berk-Tek
BFE Fernmelde Technik & Elektronik
BGW Systems



Canare Cable

Clark Wire & Cable
Cole Wire & Cable
Connectronics
Continental Electronics
Dielectric Communications
(General Signal Corp)
East Coast Video Systems
Ergo
ERI-Electronics Research
Farrtronics
Furman Sound
Gentner Communications



GEPCO INTL INC
CHICAGO, IL

Gepco International

Har-Ken Specialties
ITI Electronics
Jampro Antennas
Jem-Fab
Kings Electronics
Kintronic Labs
Lenbar Electronics
McCurdy Radio Industries
Micro Communications
Nemal Electronics Int'l



Neutrik USA
OEI Electronics Systems
Packaged Lighting Systems
Panduit
Penny & Giles
Photomart Cine-Video
Ram Broadcast Systems
RCI Systems
Seam-Tech
Siecor
SIRA Sistemi Radio
Switchcraft
TASCAM
Techni-Tool
Trompeter Electronics
Videoequip Research
Whirlwind
Woods Industries

**Phase Converters,
1-to-3 Phase**

Continental Electronics
J E Cuesta
Kay Industries

Reliance Comm/Tec
Total Concept Sales
ZZZap Power

**Power Generators,
Standby**

Motor-generator, solar, power
inverters, UPS.

AESI/StediWatt
Alpha Technologies
Best Power Technology
Brooks Power Systems
Computer Power
Continental Electronics
J E Cuesta
Curtis Mfg
Delttec Electronics
EFI Electronics
Electripak/Thomas & Betts
EPE Technologies Inc/Square D
Exeltech
Exide Electronics Group
FWT
GC-Thorsen
GE Wiring Devices
Hubbell/Wiring Device Div
Indus-Tool
Instrumentation & Control Systems
Inc.
Kalglo Electronics
Kensington Microwave
LEA Dynatech
Liebert
Meirick
Northern Technologies
On-Line Power
T R Pitts
Power Sentry
Rathbone Energy Systems Inc/
(Energy Plus)
Reliance Comm/Tec
Sanrex Corp/Micro Ups Div
Schwalm & Associates
Sola/Hevi-Duty Electric

Staco Energy Products
Superior Electric
Teledyne Brown Engineering
Tripp Lite
TSI Power
Vanner-Weldon
ZZZap Power

**Power Line
Conditioners**

Includes surge suppression,
grounding products

AESI/StediWatt
Alpha Technologies
Best Power Technology
Brooks Power Systems
Columbine Systems
Computer Power
Continental Electronics
Control Concepts
J E Cuesta



Current Technology
Curtis Mfg
Delttec Electronics
EFI Electronics
Electripak/Thomas & Betts
Energy Plus
EPE Technologies Inc/Square D
Exide Electronics Group
Furman Sound
FWT
GC-Thorsen
GE Wiring Devices
Hipotronics
Hubbell/Wiring Device
Indus-Tool
Innovative Technology

Ancillary

Joslyn Electronic Systems
Kalglo Electronics
Liebert
Lightning Eliminators & Consultants
Lightning Master



Lightning Prevention Systems
Lyncole XIT Grounding
MCG Electronics
Meirick
Newark Electronics
Northern Technologies
Pacific Radio Electronics
PolyPhaser
Power Integrity
Power Sentry
Pulizzi Engineering
Reliance Comm/Tec
Shintron
Sine Control International
Staco Energy Products
Superior Electric
Techni-Tool
Total Concept Sales
Transtector Systems Inc.
Tripp Lite
TSI Power
Westinghouse
Woods Industries
Xcel Controls
Xentek
ZZZap Power

80% Digital

0% Fat

100% Fiber



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- Eliminates Ground Loops & 60 cycle hum
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- 70 dB continuously variable gain control

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T R Pitts CVO
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Slecor Corp O
TASCAM AC
Techflex Inc AW
Technl-Tool O
Telecast Fiber Systems O
Telect O

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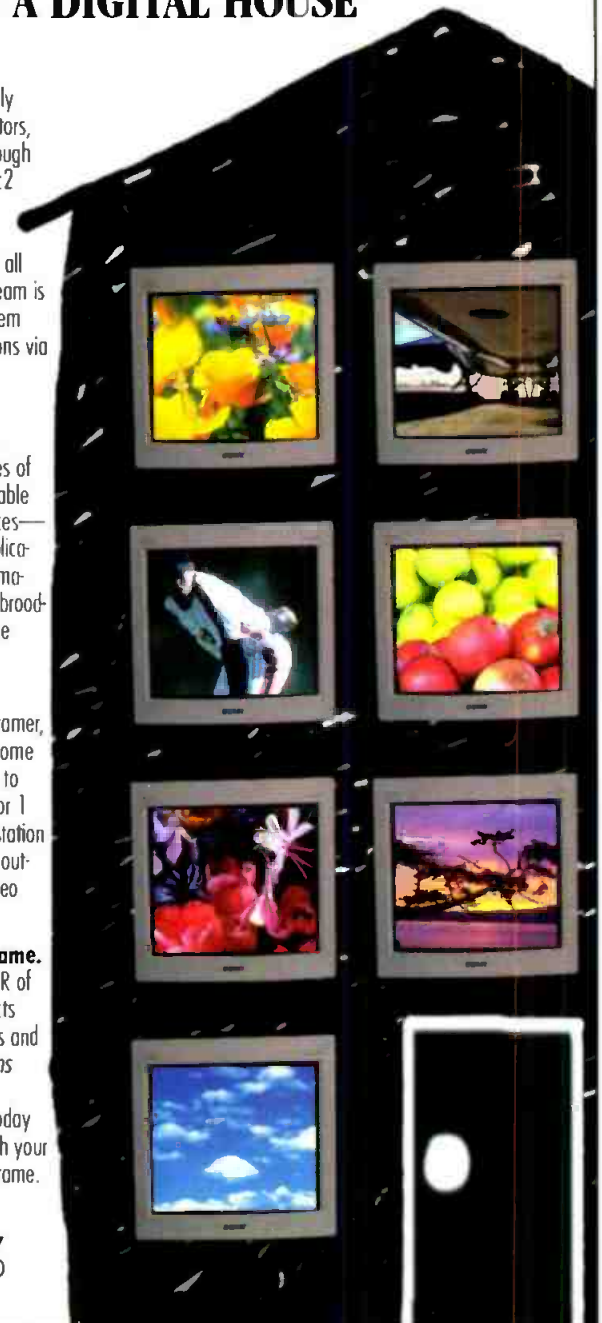
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 Elcom Bauer
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 Energy Plus
 ERI-Electronics Research
 Frontier Communications
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 Jampro Antennas
 JFW Industries
 JT Communications
 Ron Krob Technical Consultant
 Marconi Communications
 Micro Communications



Microwave Radio
 Lawrence L Morton Associates
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 NTL
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 RIZ-Transmitters
 SG Communications
 Southern Illinois Antennas
 Stainless
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 SWR
 Technet Systems Group
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 T-Tech
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Scottsdale AZ 85257
602-874-0000; 800-227-8887;
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818-551-5858; Fax: 818-551-0686
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Simi Valley CA 93065
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415-495-3852; 800-994-2773;
Fax: 415-543-2615
Products handled: Audio; Test,
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KABA Research & Development
24 Commercial Blvd
Novato CA 94949
415-883-5041; 800-231-8273;
Fax: 415-883-5222
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Lines Communications
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Burbank CA 91503-0748
818-840-8366; Fax: 818-840-8375
Products handled: RF Eqpt; Video

Marcom
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Products handled: RF Eqpt; System
Integrator; Used Eqpt

**Marshall Electronics
Optical Systems Div**
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310-390-6608; 800-800-6608;
Fax: 310-391-8926

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340-F Vernon Way
El Cajon CA 92020
619-441-1295; Fax: 619-441-9263
Products handled: Vans

Pacific Coast Marketing
14125 Capri Dr
Los Gatos CA 95030
408-370-3505; Fax: 408-370-3508

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969 N La Brea
Los Angeles CA 90038
213-969-2035; 800-634-9476;
Fax: 213-969-2053
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Professional Sound
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805-295-9395; Fax: 805-295-8398
Products handled: Audio; RF Eqpt

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Santa Barbara CA 93105
805-682-9429; Fax: 805-682-5170
Products handled: Audio; RF Eqpt

Shotmaker Dollies & Cranes
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Valencia CA 91355
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Fax: 805-257-6197
Products handled: Used Eqpt; Video

Sprague Magnetics
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Fax: 818-994-2153
Products handled: Audio; RF Eqpt;
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Placerville CA 95667
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Video

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Products handled: Video

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**Computer Prompting &
Captioning**
3408 Wisconsin Ave NW
Washington DC 20016
202-966-0980; 800-977-6678;
Fax: 202-966-0981

FLORIDA

BAF Communications
314-16 Northstar Court
Sanford FL 32771
407-324-8250; 800-633-8223;
Fax: 407-324-7860
Products handled: Vans

Bencsik Associates
3730 NE 42 Ave
Ocala FL 34479
904-732-9775; 800-342-0197;
Fax: 904-867-8691
Products handled: Audio

Broadcast Int'l Group
8280 NW 27th #515
Miami FL 33122
305-599-2112; Fax: 305-599-1133

Broadcasters General Store
2480 SE 52nd St
Ocala FL 34480
904-622-7700; Fax: 904-629-7000
Products handled: Audio; RF Eqpt

CED
2500 NW 39th St
Miami FL 33142
305-633-8020; Fax: 305-635-5445
Products handled: RF Eqpt

Command Corp
20505 US Hwy 19 N #12
Clearwater FL 34624-6010
813-724-1220; 800-841-6307;
Fax: 813-724-1840

Products handled: Audio; RF Eqpt;
System Integrator; Used Eqpt;
Vans; Video

Control Technology

2950 SW 2nd Ave
Fort Lauderdale FL 33315
305-761-1106; 800-327-4121;
Fax: 305-764-3298

Products handled: Audio; RF Eqpt;
System Integrator; Used Eqpt

Electrex

18620 NE 2nd Ave
Miami FL 33179
305-651-5752; Fax: 305-654-1386
Products handled: Audio; RF Eqpt

Gendra Broadcasting

2800 Biscayne Blvd
Miami FL 33137
305-372-8845; Fax: 305-372-0757
Products handled: Audio; RF Eqpt;
System Integrator; Vans; Video

Hi-Tech Trading Co

11100-66th St N #27
Largo FL 34643
813-546-6407; Fax: 813-544-1018
Products handled: Audio; Used Eqpt;
Video

Media Concepts

559 49th St S
St Petersburg FL 33707
813-321-2122; 800-330-3873;
Fax: 813-321-2272
Products handled: Audio; Used Eqpt;
Video

Photomart Cine-Video

6327 S Orange Ave
Orlando FL 32809-5109
407-851-2780; 800-443-2901;
Fax: 407-851-2553
Products handled: Audio; Video

Sintel - Systems International

205 S Hoover St #208
Tampa FL 33609
813-287-8007; Fax: 813-287-1081
Products handled: Audio; RF Eqpt;
System Integrator; Video

Stage Equipment & Lighting

4600 SW 36th St
Orlando FL 32811
407-425-2010; Fax: 407-648-2604
Products handled: Used Eqpt; Video

GEORGIA

CCA Electronics

360 Bohannon Rd/PO Box 426
Fairburn GA 30213
404-964-3530; Fax: 404-964-2222
Products handled: RF Eqpt; System
Integrator

Technical Industries

6000 Peachtree Road NE
Atlanta GA 30341
404-455-7610; 800-544-5440;
Fax: 404-458-2822
Products handled: Audio; RF Eqpt;
System Integrator; Used Eqpt;
Vans; Video

HAWAII

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Center Video Industrial
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Fax: 708-647-8707
Products handled: Used Eqpt; Video

Discount Video Warehouse
PO Box 36
Mount Prospect IL 60056
708-299-4258; 800-323-8148;
Fax: 708-299-4206
Products handled: Audio; RF Eqpt;
Used Eqpt; Vans; Video

Joseph Electronics
8830 N Milwaukee Ave
Niles IL 60714-1794
708-297-4200; 800-323-5925;
Fax: 800-446-8366
Products handled: Audio; Video

Midwest Audio Video Exchange
1131 Central Ave
Willmette IL 60091
708-251-0001
Products handled: Audio; Video

Provid Supply Corp
3715 Ventura Dr #500
Arlington Heights IL 60004
708-670-7767; 800-929-2349;
Fax: 708-670-7892
Products handled: Audio: System
Integrator; Test, Maintenance; Used
Eqpt; Video

RADMAR Inc
1263-B Rand Road
Des Plaines IL 60016
708-298-7980; Fax: 708-298-1248
Products handled: Audio: System
Integrator; Video

Ram Broadcast Systems
PO Box 3100
Barrington IL 60011-3100
708-382-7575; 800-779-7575;
Fax: 708-382-8818
Products handled: Audio: System
Integrator

Richardson Electronics
40W267 Keslinger Road
LaFox IL 60147
708-208-2200; 800-348-5580;
Fax: 708-208-2550
Products handled: Audio; RF Eqpt;
Video

Roscor
1061 Feehanville Dr
Mount Prospect IL 60056
708-299-8080; 800-843-3679;
Fax: 708-299-4206
Products handled: Audio; RF Eqpt;
System Integrator; Used Eqpt; Video

Video Images-Chicago
1121 Tower Lane
Bensenville IL 60106
708-766-1100; 800-729-9986;
Fax: 708-766-1106
Products handled: Audio: System
Integrator; Used Eqpt; Video

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Gray Supply
5204 Indianapolis Blvd
East Chicago IN 46312-3838
219-398-2362; 800-238-2244;
Fax: 219-398-0038
Products handled: Video

Harris Allied Broadcast Div
3712 National Road W
Richmond IN 47375
317-962-8596; 800-622-0022;
Fax: 317-962-8961
Products handled: Audio; RF Eqpt;
System Integrator; Used Eqpt;
Vans; Video

Starin Marketing
56 E Oakhill
Chesterton IN 46304
219-929-4127; Fax: 219-929-4377
Products handled: Audio

KANSAS

Computer Concepts
8375 Melrose Dr
Lenexa KS 66214
913-541-0900; 800-255-6350;
Fax: 913-541-0169
Products handled: Audio

Dixon Representation
2805 W 127th St
Leawood KS 66209
913-345-0958; Fax: 913-345-9990
Products handled: Video

RSC Electronics
131 Laura
Wichita KS 67201
316-267-5213; 800-456-6545;
Fax: 316-267-8917
Products handled: Audio; RF Eqpt;
Video

Smith Audio-Visual
310 SW 6th St
Topeka KS 66603-3109
913-235-3481; 800-521-3936;
Fax: 913-235-3485
Products handled: Audio; Used Eqpt;
Video

KENTUCKY

RGB Dynamics
1445 Jamike Dr #3
Erlanger KY 41018
606-282-7303; Fax: 606-282-8225
Products handled: Video

United States Broadcast
2794 Circleport Dr
Erlanger KY 41018
606-282-1802; Fax: 606-282-1804
Products handled: Audio; RF Eqpt;
Video

MASSACHUSETTS

Adcour Inc
18 Billings St
Sharon MA 02067
617-784-8123; 800-232-3557;
Fax: 617-784-5563
Products handled: Video

Audiomotion/Sellmark
30 Main St
Ashland MA 01721
508-881-7808; 800-266-1266;
Fax: 508-881-7928
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Bradley Broadcast Sales
12401 Twinbrook Pkwy
Rockville MD 20852
301-948-0650; 800-732-7665;
Fax: 301-330-7198
Products handled: Audio; RF Eqpt

Print Products International
8931 Brookville Road
Silver Spring MD 20910
301-587-7824; 800-638-2020;
Fax: 800-545-0058
Products handled: RF Eqpt; Video

Professional Products
4964 Fairmont Ave
Bethesda MD 20814-5090
301-657-2141; 800-638-8071;
Fax: 301-913-5575
Products handled: Audio; System Integrator; Video

Radio Resources & Services
1201 S Sharp St
Baltimore MD 21230
410-783-0737; 800-547-2346;
Fax: 410-783-4635
Products handled: Audio; RF Eqpt; Used Eqpt; Video

Wiltronix Inc
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301-258-7676; 800-848-7870;
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Products handled: System Integrator; Video

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Independent Audio
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207-773-2424; Fax: 207-773-2422
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Products handled: Audio; System
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Blumberg Communications

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601-857-8573; Fax: 601-857-2346

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702-731-4700

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Jasoni Electronics

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201-767-7990; 800-526-0242;
Fax: 201-767-7377

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International Teletronics

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Fax: 609-629-1751

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Hackensack NJ 07602
800-461-6000; Fax: 201-487-3978
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Fax: 201-473-0521

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321 Pennsylvania Ave
Linden NJ 07036
908-486-3300; 800-666-8467;
Fax: 908-486-0923

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DYMA Engineering

PO Box 1535
Los Lunas NM 87031
505-865-6700; 800-222-3962;
Fax: 505-865-6776

Products handled: Audio; RF Eqpt;
System Integrator; Video

Scientific Systems

6003 Osuna Road NE
Albuquerque NM 87109
505-883-4998; Fax: 505-893-5250

Products handled: RF Eqpt; Video

NEW YORK

Audio-Video Corp

213 Broadway
Albany NY 12204
518-449-7213; Fax: 518-449-1205
Products handled: Audio; System
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Fax: 518-828-2008
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Fax: 212-741-8026
Products handled: Audio; Video

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10373 Saratoga Rd
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518-793-2181; Fax: 518-793-7423
Products handled: Audio; RF Eqpt;
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Professional Electronics

2469 Albany St
Schenectady NY 12304
518-374-1515; 800-334-3603;
Fax: 518-374-1535
Products handled: Audio; RF Eqpt;
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Reeves A/V Systems

227 E 45th St
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212-573-8652; Fax: 212-986-3591
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Products handled: Audio; Test,
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Roosevelt NY 11575
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LBA International

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Greenville NC 27835-8026
919-757-0279; 800-522-4464;
Fax: 919-752-9155
Products handled: RF Eqpt

LBA Technology

PO Box 8026
Greenville NC 27835-8026
919-757-0279; 800-522-4464;
Fax: 919-752-9155
Products handled: RF Eqpt

Long Communications Group
 961 Burke St
 Winston-Salem NC 27101
 910-725-2306; 800-255-5664;
 Fax: 910-777-8304
Products handled: Audio; Video

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EDR Systems
 23366 Commerce Park Rd
 Beachwood OH 44122
 216-292-1700; 800-463-4814;
 Fax: 216-292-1779
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 Cleveland OH 44128
 216-475-7600; 800-922-5356;
 Fax: 216-475-6376
Products handled: System Integrator; Video

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Walter Brewer
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 Tulsa OK 74135-7490
 918-493-7323; 800-255-9458;
 Fax: 918-491-9817
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 7703 SW Cirrus Dr
 Beaverton OR 97005
 503-671-9424; 800-993-0728;
 Fax: 503-671-9626
Products handled: Audio; RF Eqpt; Video

Frontier Communications
 PO Box 939
 Portland OR 97207-0939
 503-246-8080; Fax: 503-246-6304
Products handled: Audio; RF Eqpt

PENNSYLVANIA

Alpha Video & Electronics
 200 Keystone Drive
 Carnegie PA 15106
 412-429-2000; Fax: 412-429-2015
Products handled: Audio; RF Eqpt; System Integrator; Video

CDR Systems
 7432 Washington St
 Pittsburgh PA 15218
 412-351-1700; Fax: 412-351-4673
Products handled: System Integrator; Used Eqpt; Video

LPB Inc
 28 Bacton Hill Road
 Frazer PA 19355
 610-644-1123; Fax: 610-644-8651
Products handled: Audio; RF Eqpt

MBA
 PO Box 427
 Spring House PA 19477
 215-643-4500
Products handled: Audio; Video

Tape World
 220 Spring St
 Butler PA 16001
 412-283-8621; 800-245-6000;
 Fax: 412-283-8298
Products handled: Audio; Video

Techni-Tool
 5 Apollo Road
 Plymouth Meeting PA 19462
 610-825-4990; Fax: 610-828-5623

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Professional Management Services
 PO Box 141 (221 E Earle St)
 Greenville SC 29602-0141
 803-370-2400; Fax: 803-370-2314
Products handled: Audio; System Integrator

TENNESSEE

Consolidated Media Systems (CMS)
 401 Spence Lane
 Nashville TN 37210
 615-244-3933; 800-826-4931;
 Fax: 615-244-1031
Products handled: Audio; System Integrator; Video

Paaza & Co
 PO Box 420
 Ooltewah TN 37363
 615-238-4200; Fax: 615-238-7757
Products handled: RF Eqpt; Used Eqpt; Video

Rathbone Energy Systems (Energy Plus)
 136 Old Huff Hollow Rd
 Newport TN 37821
 404-975-8052; 800-223-1775;
 Fax: 404-975-8915
Products handled: Audio; Test; Maintenance; Video

Trident Audio Developments
 3200 West End Ave #500
 Nashville TN 37203
 615-783-1625; Fax: 615-782-1629
Products handled: Audio

TEXAS

GP Enterprises
 PO Box 912
 Arlington TX 76004-0912
 817-572-0132; Fax: 817-478-9264
Products handled: Audio; RF Eqpt; Used Eqpt; Video

MilesTek
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 Argyle TX 76226
 817-455-7444; 800-524-7444;
 Fax: 817-455-2111
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 214-869-0011; Fax: 214-869-0145
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RF Specialties of Texas
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Avec Electronics
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Norfolk VA 23510
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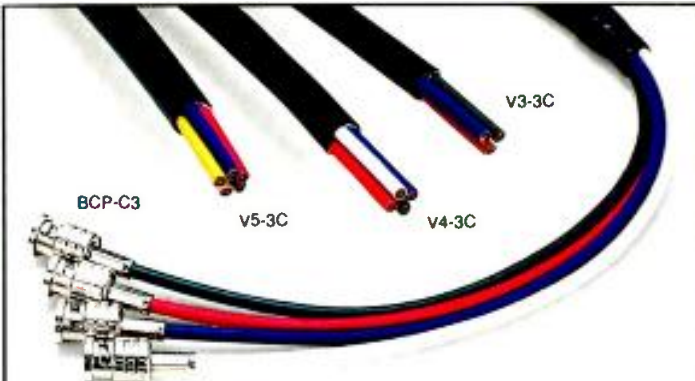
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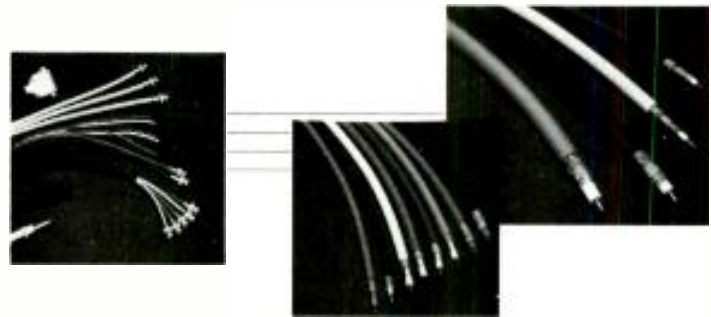
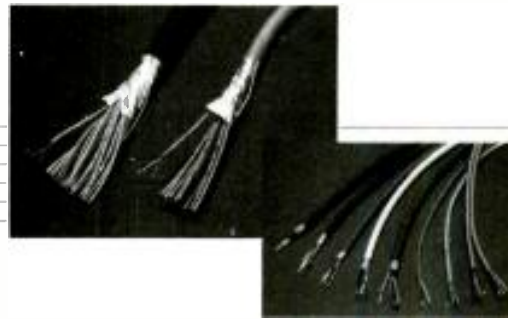
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Associated Press	101	53	202-736-1152	Louth Automation	29	10	415-329-9498
Audio Precision	48A	66	800-231-7350	Macrovision	41	26	415-691-2909
Autopatch	48B	67	509-235-2636	Magnavox	9	14	615-521-4316
Belar Electronics Laboratory	107	61	610-687-5550	Nikon Electronic Imaging	5	12	800-52-NIKON
Belden Wire & Cable	33	20	800-235-3364	NVision, Inc.	86	45	916-265-1000
BTI Computer Systems	93	37	408-733-1122	Odetics, Inc.	31	11	800-243-2001
Cablewave Systems	21	16	203-239-3311	OEI Electronic Systems, Inc.	111	103	908-735-0543
Canare Cable, Inc.	107	60	818-365-2446	Opamp Labs, Inc.	108	65	213-934-3566
Cipher Digital, Inc.	111	101	800-331-9066	Ortel Corporation	13	6	818-293-1140
Clark Wire & Cable	105	58,59	800-CABLE-IT	Allen Osborne Assoc.	73	40	805-495-8420
Clear-Com Intercom Systems	27	19	510-527-6666	Panasonic Broadcast & TV	62-70		800-524-0864
COMSAT RSI, Mark Antennas	73	41	708-298-9420	Pirot, Inc.	37	25	219-936-4221
Conex Electro Systems	90	49	206-734-4323	Pro-Bel, Inc.	1	4	404-396-1971
Continental Electronics	89	47	214-381-7161	Sanix Corporation	102	57	708-677-3000
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DPS	11	15	606-371-5533	Sierra Design Labs	97	51	792-831-7837
Dynatech Video Group	61	24	800-453-8782	Sierra Video Systems	51	23	916-478-1000
EEV, Inc.	15	7	800-DIAL-EEV	Sira Srl	91	48	295-742-605
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