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# **Broadcast** **ENGINEERING**

THE JOURNAL OF DIGITAL TELEVISION™

December 15, 1998  
Volume 40, Number 13

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# DVCPRO

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Ikegami's DVCPRO Digital Camcorder Series combine the world's finest camera technology with today's popular digital VTR format. The camera incorporates newly developed digital processing ICs which maximize the potential of digital broadcasting. The HL-V77, and the V77W (16:9/4:3 switchable version) feature three 2/3" 520,000-pixel FIT CCDs, while the HL-V73 uses three 2/3" 400,000-pixel IT CCDs. A lightweight body of about 10 lbs. including the viewfinder, and a low center of gravity with a small VTR mechanism, make the cameras extremely agile.

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**HL-V77W**  
**HL-V73**

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West Coast: (310) 370-2400 Southeast: (954) 735-2203 Southwest: (972) 869-2363 Midwest: (630) 834-9774

Website @ <http://www.ikegami.com>

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**Ikegami**

# Editorial

**W**elcome to Broadcast Engineering's 1999 DTV Buyers Guide & Web Reference. This is our last Buyers Guide before the turn of the century and we wanted to this one to be the best. To that end, several new features have been incorporated in this issue to make it even easier-to-use. Additionally, more than 90% of the information contained in this year's Buyers Guide has been verified within the last 60 days.

For starters, the product index starts on page 8. Use it to quickly locate the product section you are interested in. As an example, if you are looking for batteries, checking the product index shows they are included in the Power Products section, which starts on page 50. Almost 200 categories are listed in the product index and each points to a specific category within the product directory.

After the product index you will find the product directory. Starting on page 14, it is broken down into 39 categories and contains nearly 2000 products; half of which are DTV/HDTV ready. The product directory also includes phone numbers for each of the manufacturers listed—both toll-free and regular when available. Advertiser listings are highlighted in red. For information on their products simply circle the appropriate numbers on the Free Info Card (p.125).

Need a web address? Turn to page 87. There you'll find more than 600 company URLs. These pages can be detached and kept next to your PC for handy reference.

Starting on page 98 you will find full address listings for 700 manufacturers and dealers. Systems integrator addresses are listed separately and begin on page 133. Once again, advertisers are highlighted. Within the address section, you will also find a rundown of the sections where advertiser's products are listed. Page

numbers are included to make things even easier.

Also, don't miss the new feature, scattered throughout the Buyers Guide are *Tech Tips*. These concise factoids contain reference information you'll find useful. They can be found quickly by locating the colored banners on the lower side of the page. A complete list is contained in the Table of Contents (p.4).

For the times when you need access to this information and don't have your Buyers Guide handy, the complete Buyers Guide can also be found on the web at [www.broadcastengineering.com](http://www.broadcastengineering.com). As an added bonus, all advertiser web addresses are hot linked back to their site.

So there you have it, the 1999 DTV Buyers Guide & Web Reference—all new, with even more useful practical information designed to make your job easier.



Steve Epstein, technical editor





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[www.americanradiohistory.com](http://www.americanradiohistory.com)

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Analog Video Distribution Amplifiers  
Analog Audio Distribution Amplifiers  
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For more information on the Genesis Range and a complete Product Directory just call, fax or [www.tekniche.com](http://www.tekniche.com)



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& 1 800 TEKNICHE  
**USA (West)** Tel +1 818 955 9907 Fax +1 818 955 9908  
**Hong Kong** Tel +852 2776 0628 Fax +852 2776 0227  
**Brazil** Tel +55 21 622 1536 Fax +55 21 622 1825

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CONVERTING THE WORLD

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# Canon

# Product Directory

## Audio Accessories

*Includes: Acoustic materials; Audio accessories; Audio codecs; Audio meters; Audio monitor amplifiers; Audio patch panels; Headphones; Sound/music/image libraries; Speakers; Surround sound accessories*

**615 Music Library**  
888-615-TRAX; 615-244-6515  
\*51 CD Music Library

**Ac-cetera Inc**  
800-537-3491; 412-344-8609  
PB Mounts Microphones to Microphones  
CW Cable Organizers  
R-X-1 No-Creak Wired XLR Gooseneck

**Acoustic Systems**  
800-749-1460; 512-444-1961  
Acoustic Materials

**Acoustical Solutions**  
800-782-5742; 804-346-8350  
Sound/Noise Control Products

**AKG Acoustics US**  
615-360-0499  
K2705 Sealed Parabolic Headphones  
HSC200 Headphone/Microphone Broadcast Headset

**ATI-Audio Technologies Inc**  
800-959-0307; 215-443-0330  
BGD200/400VU/PPM NanoAmp Series Dual & Quad Bargraph Meters

**Audio Accessories Inc**  
603-446-3335  
Line of Patch Panels

**Audio-Technica US Inc**  
330-686-2600  
ATH-M40fs & ATH-D40fs Studiophones

**Avocet Instruments Inc**  
800-443-0728; 503-671-9424  
AV-2000 Audio Delay Cancellor

**Beck Associates Inc**  
888-422-8600; 512-252-7555  
\*AESIO  
VU-2P

**Benchmark Media Systems Inc**  
800-262-4675; 315-437-6300  
SPM 220/320 VU Meter Systems  
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**Bogen Photo Corp**  
201-818-9500  
Manfrotto Microphone and Speaker Accessories  
Circle (469) on Free Info Card

**Boland Communications**  
800-918-9090; 949-367-9911  
Digital uniVUer

**Broadcast Richmond**  
765-966-6468  
Prewired Console and Mixer Harness

**Clark Wire & Cable**  
800-222-5348; 847-949-9944  
Line of Patch Panels

**Creative Support Services**  
800-468-6874; 213-666-7968  
\*168 CDs of Production Music & Sound Effects

**Datatek Corp**  
800-882-9100; 908-654-8100  
D2627 AES/EBU Synchronizer

**Dolby Laboratories Inc**  
800-33-DOLBY; 415-558-0200  
\*DP562 Dolby Digital Decoder  
\*DP567 Two-Channel Dolby Digital Encoder  
\*DP569 Multichannel Dolby Digital Encoder

**Dorrough Electronics**  
818-998-2824  
\*Dorrough Loudness Meter

**DSP North America Ltd**  
630-653-1940  
\*MP-I-SPEED Monitor

**Harrison by GLW**  
615-370-9001  
\*SMS Surround Monitoring System

**Henry Engineering**  
626-355-3656  
StereoMixer 8-Input Stereo Mixer  
Matchbox II Level & Impedance Converter  
PortaMatch  
Twin Match

**HNB Communications USA LLC**  
310-319-1111  
\*Circle S Studio Monitor 5.1

**Horita Co Inc**  
949-489-0240  
AM-50 On-Screen Audio Meter  
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**Industrial Acoustics Co**  
718-931-8000  
Quad-Series Modular Studios  
Noise-Lock Acoustic Windows & Doors  
**Intraplex Inc**  
877-INTRAPLEX; 978-486-9000  
\*OutBack MPEG Layer II ISDN Audio Codec

**JBL Professional**  
800-852-5776; 818-894-8850  
\*LSR 32 Mid-Field Monitor  
\*LSR 28P Bi-Amplified Monitor  
\*LSR Multichannel Monitoring System

**Lemo USA**  
800-444-5366; 707-578-8811  
Connectors and Patch Panels

**Logitek**  
800-231-5870; 713-782-4592  
\*Mechanical and LED VU Meters

**MartinSound**  
800-582-3555; 626-281-3555  
\*Multimax Multiformat Monitor Controller

**Megatrax Production Music**  
888-MEGA-555; 818-503-5240  
Production Music Libraries

**Mohawk/CDT**  
800-422-9961; 978-537-9961  
\*Audio Breakout Boxes

**Neutrik USA Inc**  
732-901-9488  
NADITBNC-M & -F  
Easy Patch - TT & TB Patch Panels

**OGM Production Music**  
800-421-4163; 323-461-2701  
Production Music Libraries

**OMNIMUSIC**  
800-828-6664; 516-883-0121  
Production and Sound-Effects Libraries

**PANORAMAdtv**  
650-589-5676  
\*In-Picture Audio Meters and Alarm Control

**Prime Image Inc**  
408-867-6519  
Twister

**Promusic Inc**  
800-322-7879; 561-995-0331  
\*2000 CDs of Music & SFX

**Radial Engineering**  
604-942-1001  
\*Headphones and Headsets  
\*Audio Accessories

**Rip-Tie Inc**  
800-348-7600; 415-543-0170  
\*Rip-Tie Cable Management System

**River City Sound Productions**  
800-755-8729; 901-274-7277  
\*Buy-Out Production Music Libraries

**RPG Diffusor Systems Inc**  
301-249-0044  
\*Flatflusor New 2D Flat Diffuser 2'x2'x1"  
\*ProFoam New Profile Foam w/VDAC Technology

**Sennheiser Electronic Corp**  
860-434-9190  
\*RS-8 Headphones

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\*HD570 Headphones

Circle (261) on Free Info Card  
\*HDR-8 Headphones

Circle (134) on Free Info Card  
\*RS-6 Headphones

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**Sonic Science**  
800-26-Sonic; 416-351-9100  
Sonic Boon Sound-Effects Library  
Sonic Source Music Library

**SoperSound Music Library**  
800-227-9980; 650-321-5193  
Music Libraries

**Sound Ideas**  
800-387-3030; 905-886-5000  
\*Professional-Quality Sound-Effects Libraries  
\*Professional-Quality Music Libraries

**Switchcraft Inc**  
773-792-2700  
\*APP, Front-Access, Digital APP Series Patch Panels

**Systems Development Group Inc**  
800-221-8975; 301-846-7990  
Audio Accessories

**Techflex Inc**  
800-323-5140; 973-729-6253  
\*Expandable Braided Sleeving

**Telos Systems**  
216-241-7225  
Zephyr Digital Network Transceiver  
Zephyr Express Portable ISDN Codec/Mixer

**The Music Bakery**  
800-229-0313; 615-790-9897  
Buy-Out Audio Music Library of 30+ Production Music CDs

**TRF Production Music Libraries**  
800-899-MUSIC; 914-356-0800  
\*PAN Music Library 120 CDs of Ethnic Production Music

\*Bosworth, Musictrack, PowerSound & Pyramid New Releases

**Trompeter Electronics Inc**  
800-982-2629; 818-707-2020  
\*Patch Panels, Jacks, Cords & Connectors  
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**Videotek Inc**  
800-800-5719; 610-327-2292  
APM-200/800 - 2- and 8-Input Monitor Amps  
Circle (402) on Free Info Card

**Ward-Beck Systems Ltd**  
800-771-2556; 416-438-6550  
Bit Buddy/Bit Spitter

# Product Directory

## Wave:Space Inc

- 949-770-6601
- \*WSM 15-2B Surround Monitor System
- \*WSS 600 Surround Monitor Switching System

## Westlake Audio

- 805-499-3686
- \*Lc3W10 3-Way Mid-to-Close Field Monitor
- \*LcRG5.1 Dedicated Center Channel Speaker
- \*Lc 6.75 Compact Close Field Monitor

## WhisperRoom Inc

- 800-200-8168; 423-585-5827
- Sound Isolation Booths - Portable & Modular

## Wohler Technologies Inc

- 838-5 WOHLER; 650-589-5676
- \*In-rack, Self-Powered Amplified Speaker Systems
- \*ATSC Surround Sound Audio Monitors for 5.1 Applications
- \*Full Line of Level and Phase Metering Products
- You/Com Audiocommunicatie BV
- +31 15 262 5955
- ReporterSet RSD/64



Euphonix CS 3100B Mixer

## Euphonix Inc

- 818-766-1666
- CS3100B Mixer (See Photo)

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## Fostex America

- 800-7-FOSTEX; 562-921-1112
- Mixers

## Graham-Patten Systems

- 800-422-6662; 530-273-8412
- \*D/ESAM 400 - 64-Input Digital Audio Mixer
- \*D/ESAM 230/24 - 24-Input Digital Audio Mixer

## Harrison by GLW

- 615-370-9001
- \*SMS Surround Monitoring System
- PRO-950 TV/Radio Production Mixer
- \*digital.engine Digital Mixing System
- \*SeriesTwelve Mixing Console
- \*TV950 Broadcast Mixing Console

## Logitek

- 800-231-5870; 713-782-4592
- \*NUMIX Digital Mixer (up to 64 Channels)
- ROC-5/10 Digital Mixer (up to 64 Channels)

## LPB Inc

- 610-644-1123
- 7000 Series Analog Audio Consoles

## Martinsound

- 800-582-3555; 626-281-3555
- \*Neotek Elite II Production Console

## Shure Brothers Inc

- 800-25-SHURE; 847-866-2200
- \*M367 Six Balanced Line/mic Input Portable Mixer
- \*FP410 Portable Automatic 4-Channel Mixer
- \*FP33 Stereo Mixer for Field Use

## Solid State Logic

- +44(0)1865 842300
- \*Aysis Air Digital Broadcast Console
- \*Avant Digital Film Console
- \*Axiom-MT Digital Multitrack Console

## Sony Electronics

- 800-635-SONY
- \*OXF-R3 Oxford Digital Mixing Console

Circle (109) on Free Info Card

## Soundcraft Electronics

- 615-399-2199
- B400 Console

## Studer North America

- 408-542-8880
- \*Studer D950

## Studer Professional Audio AG

- +41 1 870 75 11
- \*D950S Digital Mixing Console w/Surround



Wheatstone Corp TV 1000

## Wheatstone Corp

- 252-638-7000
- \*D-500

Circle (155) on Free Info Card

\*TV-80

Circle (249) on Free Info Card

\*TV 1000 (See Photo)

Circle (204) on Free Info Card

\*SP-8EX

Circle (156) on Free Info Card

## Zaxcom

- 201-652-7878
- \*Arria HD Digital Audio Mixer
- \*Deva 4-Channel Recorder/Mixer

www.wheatstone.com

Wheatstone Corporation is one of the world's foremost manufacturers of audio mixing consoles. Our analog and digital designs are intended for broadcast professionals at all levels of the industry.

## Audio Mixers

Includes: Portable mixers; Studio mixers

## AMEK US Operations Inc

- 888-286-9358; 615-360-0488
- DMS - Digital Mixing System
- Recall - Automated Production Console
- Big - Production Multitrack Console

## ATI-Audio Technologies Inc

- 800-959-0307; 215-443-0330
- MSX100, MX100 NanoAmp Series Mono & Stereo Mixers

## Cooper Sound Systems

- 805-927-8521
- \*CS104 ENG-EFP Audio Mixer
- \*CS 106+1 Professional Audio Mixer
- \*CS 108+1 Professional Audio Mixer

## Audio Processing

Includes: Audio compressor/expanders; Audio effects systems

## Applied Research & Technology

- 716-436-2720
- \*DMV Pro-Dual Stereo Digital Effects Processor
- \*Pro VLA Stereo Optical Compressor
- \*Tube Channel-Mic/Line Preamp, Comp, EQ

## Audi-Cord Corp

- 309-452-9461
- AIR Corp 500 Series Microphone Processors

## beyerdynamic

- 800-293-4463; 516-293-3200
- SPL Signal Processing

## Cutting Edge Technologies

- 216-241-3343
- Omnia-net Internet Audio Processor
- \*Omnia-dtv 5.1 Channel Audio Processor

## Dan Dugan Sound Design

- 415-821-9776
- \*Model D Automatic Mixing Controller
- \*Model D-1 Live Mic Processor

## Dolby Laboratories Inc

- 800-33-DOLBY; 415-558-0200
- Audio Processors

## Eventide Inc

- 201-641-1200
- H3500-DFX/E Broadcast Dynamic Sampler
- Ultra-Harmonizer
- \*DSP4000B Broadcast/Production Ultra-Harmonizer
- H3000B+ Broadcast Plus Dynamic Ultra-Harmonizer

## FM Systems Inc

- 800-235-6960; 714-979-3355
- \*ALM771-Automatic Audio Gain Control

## Orban

- 510-351-3500
- \*Optimod-DAB 6200 (2-Channel DTV)

**Contrary to popular belief,  
engineers and physicists are  
quite capable of celebration.**



**dtv**  
READY

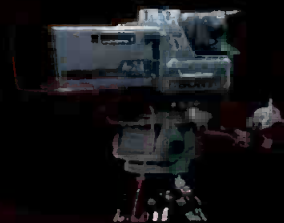
3 color skin tone detail

Noise reduced to 65db

Switchable between  
16:9 and 4:3



Engineers and physicists don't celebrate like the rest of us.  
They wait for a truly special occasion.  
Like developing the finest 12-bit digital camera on the market.  
And then they really cut loose.  
Our engineers designed an advanced 12-bit Digital Signal Processor.  
Our physicists developed a revolutionary 16:9 CCD imager.  
Working together, they figured out how these innovations  
could give you the best picture available.  
And if that weren't enough to cheer about,  
they made our camera SDTV-ready, with the  
flexibility and reliability you've come to expect from Sony.  
After you see what our new camera can do,  
you'll understand what all the celebration is about.  
[www.sony.com/professional](http://www.sony.com/professional) and 800-635-SONY ext. ADSP



BVP 900/950

90% horizontal depth of  
modulation at 400 TVL

16:9 CCD

12-bit DSP

**SONY**

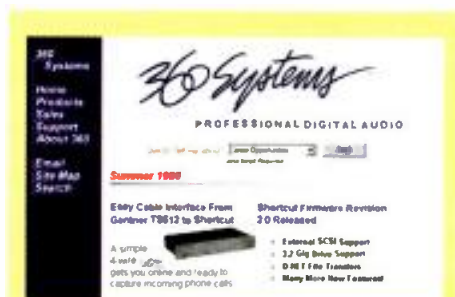
# Product Directory

## Sabine Inc

800-626-7394; 904-418-2000  
**FBX 1020 Plus & 2020 Plus - Automatic Feedback Controllers**  
**Graphi-Q - Digital Graphic EQ w/Analog-Style Control**

## TC Electronic Inc

800-738-4546; 805-373-1828  
**DBMAX Multiband Dynamics Processor**  
**Fireworx - Special-Effects Processor**  
**Finalizer Plus - Multiband Dynamics Processor**



[www.360systems.com](http://www.360systems.com)

360 Systems is a 27 year old company specializes in the design and manufacture of innovative digital audio products for the professional sound, broadcast and commercial sound markets.

## Audio Recording, Storage & Playback

Includes: Audio RAM recorders; Audiotape recorders/players (ATRs); Disk recorders (audio)

### 360 Systems

818-991-0360

\*Instant Replay 2.0

Circle (206) on Free Info Card

\*Digicart II Plus w/24 Hours Internal Storage

Circle (298) on Free Info Card

\*Instant Replay 2.0 w/16 Hours Internal Storage

Circle (300) on Free Info Card

\*Digicart II Plus

Circle (158) on Free Info Card

### Arrakis Systems

970-224-2248

**DL4; DL4-SASS Audiotape Replacement Systems**

### Audi-Cord Corp

309-452-9461

**DL Series NAB Tape Cartridge Recorders & Reproducers**

## Broadcast Electronics Inc

217-224-9600

**AudioVAULT**

### Denon Electronics

973-575-7810

**DN-M1050R Mini Disc Recorder**

### Doremi Labs Inc

323-874-3411

\*V1 Nonlinear Recorder/Player

### Euphonix Inc

818-766-1666

\*R-1 Multitrack Recorder

Circle (435) on Free Info Card

### HMB Communications USA LLC

310-319-1111

**CDR 800 Compact Disk Recorder**

**Portable DAT Player/Recorder Portadat**

### Nagra USA

615-726-5191

\*ARES-C Solid-State Recorder/Editor

### Sony Electronics

800-635-SONY

\*DADR-5000 Digital Audio Disk Recorder

Circle (108) on Free Info Card

### Studer North America

408-542-8880

\*V-Eight 8-Channel Digital Recorder

**You/Com Audiocommunicatie BV**

+31 15 262 5955

**ReporterMate MTR/64x**



[www.benchmarkmedia.com](http://www.benchmarkmedia.com)

The Benchmark Media Systems web site is home to the full Benchmark Pro-Audio Catalog and price list. Numerous application notes answer many technical questions.

## Audio Routing & Distribution

Includes: Audio A/D-D/A converters; Audio DAs; Audio routers; Audio/video mux/embedding equipment; Sample rate converters

### ATI-Audio Technologies Inc

800-959-0307; 215-443-0330

**DA208/DA416, DA206/DA412 Encore Series Audio DAs**

### Axon Digital Design BV

+31(0)13511 6666

**AEB-221/ADB-122 Embedder/De-Embedders**

**AAD-420/ADA440 & AAD-542/ADA-524 A/D-D/A Converters**

### BAL Broadcast Ltd

+44(0)1203-375827

**Digital Distribution System**

**Analog Distribution System**



Benchmark ADA2008

### Benchmark Media Systems Inc

800-262-4675; 315-437-6300

**DA-101 & DA 102DM Power Amp DAs**

Circle (301) on Free Info Card

**VCA-2 Remote Stereo Voltage-Controlled Amplifier**

Circle (510) on Free Info Card

**ADA2008 4-Channel A/D-D/A Converter**

(See Photo)

Circle (213) on Free Info Card

**MGC-2 Stereo Monitor Gain Control**

Circle (511) on Free Info Card

### Broadcast Electronics Inc

217-224-9600

**AudioPOINT**

### CBSI-Custom Business Systems Inc

800-547-3930; 541-271-3681

**Digital Universe - Uncompressed Digital Audio Management**

### Chyron/Pro-Bel

516-845-3871

\*Freeway

### Comtek Inc

800-496-3463; 801-466-3463

\*DX 3-4 Digital IFB Controller

### Datatek Corp

800-882-9100; 908-654-8100

**D2600/2800 Digital Audio Routers**

### Di-Tech Inc

516-667-6300

**5887 Stereo Audio 64x64 Matrix**

**5882 Stereo Audio 128x160 Matrix**

### Extron Electronics

800-633-9876; 714-491-1500

**SADA 6 MX Stereo Audio DAs**

**Matrix 6400 Audio Matrix Switcher**

### Graham-Patten Systems

800-422-6662; 530-273-8412

\*SoundPals - Digital Audio Systems Building Blocks

### Henry Engineering

626-355-3656

**USDA, 2x4 Audio DA**

### ISIS Group

888-622-4747; 530-477-2984

**AMF-100 Audio DAs**

**ACL-606 6x6 Master Gain Controller**

**FRED 4x4 Additive Audio Mixer**

### Leitch Incorporated

800-231-9673; 757-548-2300

\*XPlus

Circle (164) on Free Info Card

### Martinsound

800-582-3555; 626-281-3555

\*Recorder Monitor System (RMS) Multi-input Monitor Matrix

### MicroVideo Ltd

+44(0)1223 834119

\*Audio: MUX200, DMX200, DMX201A, DMX204A 2 and 4 Channels



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50 hours of audio on hard disk, provides instant access to thousands of cuts, and has your choice of Dolby® AC-2 *Drive it Hard!* or true 16-bit linear recording.

We invite you to take it out for a test drive and make the comparison.

We're that sure that after you test drive it, you'll want to park it at your place.



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\*Offer good in U.S. and Canada only

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[www.americanradiohistory.com](http://www.americanradiohistory.com)

# Product Directory

**Miranda Technologies**  
800-224-7882; 514-333-1772  
AMX/ADX Mux Demux Units  
Circle (246) on Free Info Card  
SDM-701i

Circle (140) on Free Info Card  
SDA-7XX Series

Circle (247) on Free Info Card

**Multidyne Inc**  
800-4TV-TEST; 516-671-7278  
AAGC-200 Audio DA w/Automatic Gain  
Circle (442) on Free Info Card

**NVISION Inc**  
800-719-1900; 530-265-1000  
\*4000 Series Modules  
\*NV3064SA Audio Router  
\*4000 Series Modules  
\*NV1035 Audio A/D-D/A Converter  
\*NV1025 Audio DA  
NV1050 Sample Rate Converter

**Opamp Labs Inc**  
323-934-3566  
Audio DAs

**PANORAMAdtv**  
650-589-5676  
\*Cost-Effective Audio Conversion Products

**Pixel Instruments Corp**  
408-871-1975  
AD-3000 Audio Synchronizer for Analog/AES  
Audio

**Ross Video Ltd**  
613-652-4886  
RossGear Terminal Equipment  
Circle (327) on Free Info Card

**Sigma Electronics**  
717-569-2681  
\*DMA-2180 AES/EBU Monitoring DA

**Studer North America**  
408-542-8880  
\*Studer Gateway  
Route56 MADI Router

**Tektronix Inc Video & Network  
Division**  
800-547-8949  
\*Grass Valley 8900, 8800, 8500 Series DAs  
Circle (395) on Free Info Card  
Grass Valley MAX 9000 Digital Systemization  
Products

Circle (390) on Free Info Card  
**TeleCast Group AS**  
+47 33 44 72 00  
AD2000 Digital Audio Routing Switchers

**Television Equipment - Matthey**  
914-763-8893  
\*Matthey Audio Embedding & Extracting System

Circle (358) on Free Info Card  
**Videotek Inc**  
800-800-5719; 610-327-2292  
ADA-16/18 - Modular and Stand-Alone DAs  
Circle (403) on Free Info Card

**Ward-Beck Systems Ltd**  
800-771-2556; 416-438-6550  
PDDS Family

*Includes: Asset management systems; Master control switchers; TV business automation (traffic systems); TV facility automation; TV news automation systems*

**AAVS**  
+33 1 49 88 34 34  
\*ACUBE Range: Application Software for TV  
Facilities

**Artel Video Systems Inc**  
800-453-8782; 801-575-8801  
\*Digital Maestro-Master Control Switcher

**Associated Press**  
800-821-4747; 202-736-1100  
NewsCenter

**Avid Technology Inc**  
800-949-AVID; 978-640-6789  
\*NewsCutter DV/NewsPlayer DV

**BBC Resources - Projects**  
+44 8700 100 883; +44 181 576 7121  
\*BNCS: Broadcast Network Control System

**Blueline Technology, Inc.**  
800-905-2583; 972-353-2583  
\*STATIDMASTER Television Automation  
System

**Broadcast Software Solutions**  
800-273-4033; 561-776-8462  
\*SchoolTouch - Automated School Closing  
System

**CBSI-Custom Business Systems Inc**  
800-547-3930; 541-271-3681  
Integrated Sales Manager

**CEA Digital Newsroom Systems**  
800-888-3922; 410-987-7003  
\*CEA Digital Newsroom System

**Chyron/Pro-Bel**  
516-845-3871  
\*MAPP Media Management System  
\*Sextant  
\*TX-320 Digital Multichannel MC Switcher  
\*Compass

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Web Site: <http://www.tte.thomson-csf.com>

US office: Thomson Components & Tubes Corp. - 40G Commerce Way - PO Box 540 - Totowa NJ 07511 - Tel: (1-973) 812 90 00 - Fax: (1-973) 812 90 50

# THE CHOICE OF POWER

# Product Directory

## Columbine JDS Systems Inc

303-237-4000

- \*MCAS-III - Master Control Automation System
- \*Digital Manager - Digital Management Software System
- \*ClipVault - Material Management Add-On Software Package
- \*Video Server Playlist Manager (VSPM)
- \*Closed-Loop - Automated Reconciliation System

## Comprompter

608-785-7766

- \*ENR-Electronic Newsroom

## Computer Modules, Inc.

408-496-1881

## Video Watchguard

## Crispin Corporation

919-790-8813

- \*Dubber - Tape Machine to Disk Control
- \*ClipCop - Caching Software
- \*RapidPlay X - News & Commercial Playback System

## Drake Automation

+44 1707 333866

## D-MAS Drake Multichannel Automation System

## FloriCal Systems Inc

352-372-8326

- \*AirBoss - On-Air Presentation
- \*Show Timer - Satellite Program Acquisition Validator - NTSC/PAL Signal Interpreter
- \*Media Timer - Program Data Capture

## Image Video

416-750-8872

## 8321 Master Control Switcher

## Leitch Incorporated

800-231-9673; 757-548-2300

## \*HDTV Master Control Switcher

Circle (241) on Free Info Card



Louth Automation ADC-100

## Louth Automation

650-843-3665

## \*ADC-100 (See Photo)

Circle (157) on Free Info Card

## \*GMT (Global Media Transfer)

Circle (434) on Free Info Card

## \*AIR CLIENT

Circle (433) on Free Info Card

## \*MEDIA CLIENT

Circle (432) on Free Info Card

## \*AUTOSAT

Circle (255) on Free Info Card

## \*ADC-50

Circle (254) on Free Info Card

## Media Computing Inc

602-582-2600

## \*ANGIS - Automated News Graphic Interface System

## Miles

+44-1635-552-524

## \*M40+ Presentation Switcher

## NewsMaker Systems Inc

818-879-0000

## \*Stardrive Automation

## \*Open Media Newsroom Computer System

## NEXUS Informatics GmbH

+49-891-981550

## StarDrive Automation - Machine Control

## NewsWire - OpenMedia Software



Odetics Broadcast Roswell Facility Management System

## Odetics Broadcast

714-774-2200

## \*Roswell Facility Management System (See Photo)

Circle (129) on Free Info Card

## \*Bowser Visual Asset Manager

Circle (256) on Free Info Card

## \*SpotBank Pro Automated Management System

Circle (161) on Free Info Card

## Pacific Computing

831-427-4280

## \*OmniJet Machine Server LAN/WAN Routing & HTML Machine Control

## Panasonic Broadcast & Digital Systems Co

800-528-8601; 323-436-3500

## DNA DVCPRO News Automation System

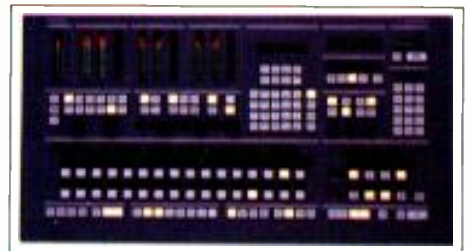
## \*Smart Carl Automation System w/DVCPRO VCRs

## PESA Switching Systems Inc

800-328-1008; 256-726-9200

## \*Alliance Master Control Switcher

Circle (272) on Free Info Card



Philips Digital Video

## Philips Digital Video Systems

## Saturn Master Control Switcher

800-962-4287; 801-977-1611

## Saturn Master Control Switcher (See Photo)

Circle (367) on Free Info Card

## \*MC Series High Performance Automation Systems

Circle (368) on Free Info Card

## Ross Video Ltd

613-652-4886

## AVM-7900 4-Input Audio Video Mixer

Circle (329) on Free Info Card

## Tektronix Inc Video & Network Division

800-547-8949

## \*Grass Valley M-2100 Master Control Switcher

Circle (384) on Free Info Card

## Time Logic Inc

702-833-0200

## \*APDV-200/DTV Delay System

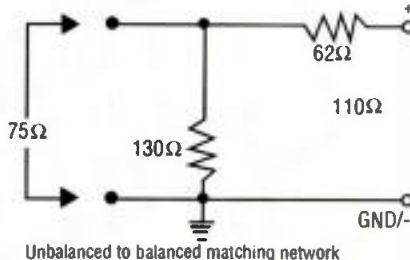
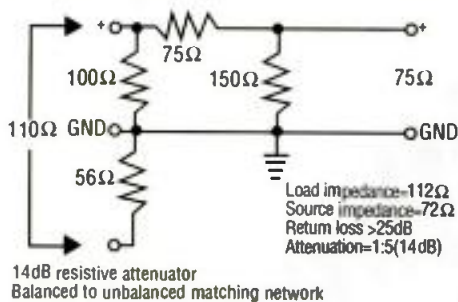
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## Tech Tip

### Passive digital audio connection





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**Videomedia Inc**  
800-YES-VLAN; 408-227-9977  
\*VIP-Suite

**Videotek Inc**  
800-800-5719; 610-327-2292  
**PRODIGY - 10-Input Video/Audio Mixing**  
Circle (404) on Free Info Card

**Virage Inc**  
650-573-3210  
\*Virage Video Cataloger

## Cable TV equipment

*Includes: Broadcast cable equipment; CATV system components; Conditional access system; Set-top box technology*

**Bomar Interconnect Products Inc**  
973-347-4040  
\*810PE209G, F Connectors, New Tool-less Design

**Dubner International Inc**  
201-447-9365  
**VideoALERT - On-Air Signal Monitor and Response System**

**Harmonic Lightwaves**  
408-542-2500  
**NETWatch MEM 5000**

**Macrovision Corp**  
408-743-8600  
**PhaseKrypt PK-430C**  
DVD Protection  
**PhaseKrypt PK-410C**  
ACP-PPV Copy Protection

**Media Computing Inc**  
602-582-2600  
\*ROCI - Remote Operations Control Interface

**NDS Americas Inc**  
949-725-2500  
\*VideoGuard; Director  
Circle (269) on Free Info Card

**Pacific Computing**  
831-427-4280  
**DTX-800 8-Channel DTMF Transceiver**

**Philips Digital Video Systems**  
800-962-4287; 801-977-1611  
**DTV (ATSC) Set-Top Box**  
Circle (369) on Free Info Card

**Standard Communications Corp**  
310-532-5300  
\*TVM550II AM-VSB Modulator

**Tadiran Scopus**  
+972 3 557 6200  
**CAS 5000, Commercial SCPC/MCPC CA**  
**TV/Com International**  
619-618-3500  
**TVC-3000 Set-Top Boxes for Satellite, Cable DTT and MMDS**

**Videotek Inc**  
800-800-5719; 610-327-2292  
**DM Series Demodulators - Video and Stereo**  
Circle (407) on Free Info Card

**Zandar Technologies**  
+35312808945  
**VMX-64 Mosaic/Barker Channel Generator Equipment**  
Circle (408) on Free Info Card



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**Accom Inc**  
650-328-3818  
\*ELSET  
**AMX Corporation**  
800-222-0193; 972-644-3048  
**Access Control System**  
**ViewPoint Control System**

**Bogen Photo Corp**  
201-818-9500  
**Gitzo Rollpod and Tripods**  
Circle (474) on Free Info Card  
**Manfrotto Tripods & Pan/Tilt Heads**  
Circle (207) on Free Info Card

**Camera Support International (CSI)**  
818-887-5430  
**System 30 Tripod/Head/Handle**  
\*Model 180 Remote Control  
\*APT-30CP2 Remote Pan/Tilt Head

**Cartoni USA**  
888-227-8664; 805-520-6086  
**Alfa Series**  
**Gamma Fluid Head**  
**C40s**  
**Omega Series**  
**Delta**  
**Beta - for Cameras Up To 33 lbs**  
**Electronic Systems Integration**  
407-956-0095  
\*DPT 115 Digital Pan and Tilt Head  
\*Model 180 Digital Controller

**Evans & Sutherland**  
801-588-1661  
\*MindSet 100/200

**Global Microwave Systems**  
760-631-8021  
**StarCam**  
**Innovation Optics**  
310-394-5510  
**Pan & Tilt Heads**  
**Shuttle - Remote-Controlled Camera Platform on a Monorail**

**Matthews Studio Equipment**  
800-237-8263; 818-843-6715  
**Tripods, Fluid Heads, Pedestals**

**MICRODOLLY HOLLYWOOD**  
213-464-2712  
\*Camera Jib Arm Crane  
\*Camera Dolly & Dolly Track  
**Miller Fluid Heads (USA) Inc**  
973-857-8300  
\*DS-5 Ultra-Light Digital Support System  
\*DS-10 Lightweight Digital Support System  
\*Arrow 50 ENG/EFP Film & TV Support Systems



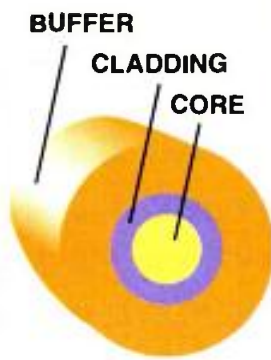
O'Connor Engineering 2060 Fluid Head

**O'Connor Engineering**  
714-979-3993  
\*2060 Fluid Head (See Photo)  
Circle (323) on Free Info Card  
\*2527B/2575BV Fluid Heads  
Circle (144) on Free Info Card  
\*1030Z Dutch Fluid Head  
Circle (322) on Free Info Card  
\*55D Heavy-Duty Baby Aluminum Tripod  
Circle (321) on Free Info Card  
\*25L 2-Stage 15"-66" Tripod  
Circle (318) on Free Info Card  
\*35LC Quick-Deployment Carbon Fiber Tripod w/Column  
Circle (319) on Free Info Card  
\*DV/DVS Fluid Heads  
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\*55D Heavy-Duty Aluminum Tripod  
Circle (320) on Free Info Card

## Tech Tip

### Fiber optic components

Optical fibers are extremely thin strands of ultra-pure glass designed to transmit light from a transmitter to a receiver. The fiber consists of three main regions. The center of the fiber is the core and actually carries the light. Surrounding the core is a region called the cladding, which reflects the light back into the core. A key design feature of all optical fibers is that the refractive index of the core is higher than the refractive index of the cladding. Both the core and the cladding are usually doped glass materials. The outer region of the optical fiber is called the coating or buffer. Typically a plastic material, the buffer provides protection and preserves the strength of the glass fiber.



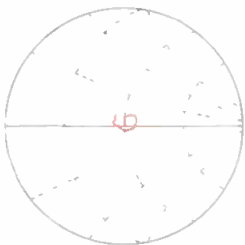
# Finally, a place to stick the FCC's DTV requirements.



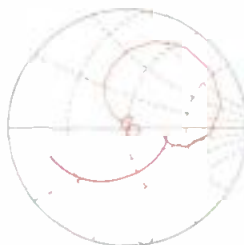
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## Paravion Technology Inc

970-224-3898

\*EV-275 Airborne Camera System

## ParkerVision

800-532-8034; 904-737-1367

CameraMan SHDT Director Pan/Tilt and CCU Controller

## Peerless Industries Inc

800-729-0307; 708-865-8870

Camera Mounts

Porta-Jib/Hollywood General

Machining

323-462-2855

\*Dollies and Track

\*Tripods

\*Jib and Crane Arm

## Quickset International Inc

800-247-6563; 847-498-0700

Tripods, Pan/Tilt Heads & Electro-mechanical Pan/Tilt Heads

## Radamec Inc

918-518-0685

\*RP2 Robotic Pedestal

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\*Virtual Scenario Virtual Set System

Circle (142) on Free Info Card

\*431 Pan/tilt Heads - Supports Up To 33 lbs

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408-938-2330

LARUS

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## Sachtler Corp

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\*DV series of tripods

\*Video 60

\*Video 20 Plus

\*Vario Pedestals

Monopod 2CF

\*DV-2/4

## Telemetrics Inc

800-424-9626; 201-848-9818

\*Weatherproof Camera-Control Systems

\*PT-CP, PT-HP, PT-LP Motorized Pan/Tilt Heads

\*TM 9660, TM9250, TM9255 Triax/Coax CCUs

\*TM-CPS

## Videssence Inc

800-579-7577; 650-579-7577

Virtual Environment One

## Vinten Inc

888-2-VINTEN; 914-268-0100

\*Quattro Studio Pedestal

\*Autocam SP-2000/X-Y

\*Vector 700

\*HS-102P

\*ACP-8000P

\*HCP-8000

\*HS-2010R

\*HS-2010MH



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Gyrocam Systems

### Aspen Electronics

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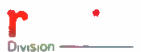
PSM-160 Camera Power Adapter

### AVerMedia Technologies Inc

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## Digital Audio Products

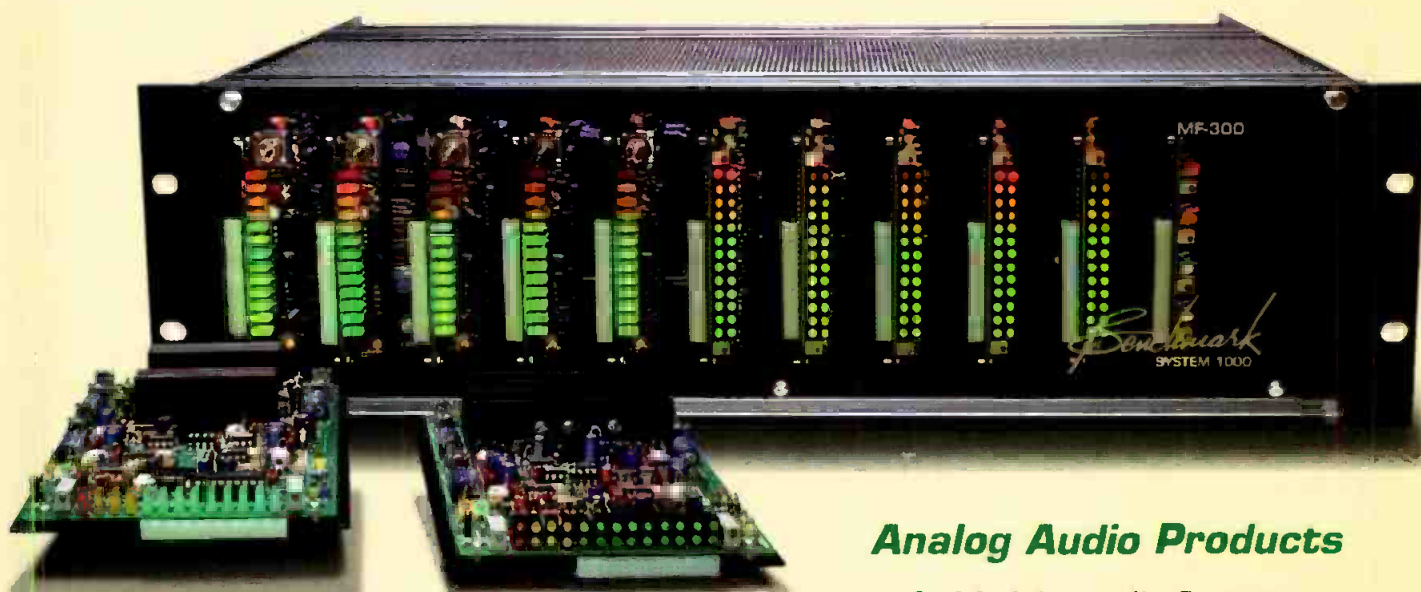
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Chrosziel Matteboxes, Sunshades and Wireless Focus Systems  
SPF Zoom and Focus Motors

## Complex Corp

316-342-7743  
CP-301B Audio/Video Signal Multiplexer  
CAMPLEX Bidirectional Multiplexing System

## Electrophysics Corporation

800-759-9577; 973-882-0211  
Astroscope 9323B

## Hitachi Denshi America Ltd

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SK-3000P  
ZV1(A)  
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SK-2060PW  
Z-2000A  
HV-D3



Ikegami Electronics (USA) Inc HDK-790/  
HDL-79 HDTV Universal Camera  
Systems

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\*HL-V59/V59W - Camcorder/Beta SP/FIT  
Circle (454) on Free Info Card  
\*HK-388/388W Studio/HK-388/388PW Portable  
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\*HL-V73, HL-V77/77W DVCPR0 Camcorder  
Circle (244) on Free Info Card  
\*HC-400/400W, Digital, Economical, IT  
Circle (456) on Free Info Card  
\*HL-45/45W Digital Portable/IT  
Circle (243) on Free Info Card  
\*HDK-790/HDL-79 HDTV Universal Camera Systems (See Photo)  
Circle (191) on Free Info Card  
\*HL-59/59W Digital Portable/Field/Studio, FIT  
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Radcam - Miniature Remote Camera Car

## JVC Professional Products Co

800-JVC-5825; 973-315-5000  
\*KY-D29U(W) 3-CCO Color Camera  
\*DY-700U Camcorder  
\*DY-90U Camcorder

## Lee Filters

800-576-5055; 818-238-1220  
\*VH Lightweight Video Hood/Filter Holder

## Mohawk/CDT

800-422-9961; 978-537-9961  
\*Hybrid Fiber-Optic Camera Cable  
\*Multicore and Triax Camera Cables

## NEC America Inc Broadcast Equipment Department

888-383-4DTV; 972-751-7246  
\*Diskcam Digital Optical Video Disk Camcorder  
Panasonic Broadcast & Digital Systems Co

800-528-8601; 323-436-3500  
\*AJ-PD900W 2/3" DVCPR050 Progressive Camcorder  
\*AJ-D900W 2/3" 3-CCD DVCPR050 Camcorder  
AJ-D810 3-IT 2/3" CCD DVCPR0 Camcorder  
\*AK-HC830 Portable 1080i Camera  
\*AK-HC880 Studio 1080i Camera

## ParkerVision

800-532-8034; 904-737-1367  
Robotic CameraMan 3-CCD Cameras

## Philips Digital Video Systems

800-962-4287; 801-977-1611  
\*LDK Series of Studio and Portable Cameras  
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\*LDK Series of DVCPR0 & DVCPR050 Camcorders  
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\*BetacamSX Line of Camcorder and Camera Systems  
Circle (113) on Free Info Card  
\*Digital Betacam Line of Camcorder and Camera Systems  
Circle (123) on Free Info Card

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\*Expandable Sleeving - Scissor Cut  
Television Engineering Corp  
573-860-4700  
Eagle Eye Camera - Mast-Mounted

## Telex Communications Inc

612-884-4051  
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15570 Studio Camera  
1657D  
Microcam

## Toshiba America/Information Systems/Imaging System

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IK-TU40A Remote Head 3-CCD Color Video Camera

## Transvideo SA

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\*WinMaster CG - Master Control Character Generator

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Power CG PLUS-Video Titling Software

Power CG RFS-Video Titling Software

Power CG-Video Titling Software

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Teleprompter

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Windows 95, 98, NT Prompting System

## For-A Corp of America

714-894-3311

Visual Express CG w/Still-Store

## Horita Co Inc

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## InnoVision Technology

510-732-3122

\*Alpha CG: Titling & Graphics Generation Software

## Inscriber Technology

800-363-3400; 519-570-9111

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## Motion Analysis

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\*3D Real-Time Character Generation Systems

### Multidyne Inc

800-4TV-TEST; 516-671-7278

CG-200 Character ID & Audio Sweep Generator

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### ParkerVision

800-532-8034; 904-737-1367

CameraMan Script Viewer Script Automation System



Pinnacle

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Systems FXDeko Characters and Logos w/Live Special Effects (See Photo)

Circle (436) on Free Info Card

TypeDeko - Broadcast CG

Circle (221) on Free Info Card

### Pixel Power Ltd

+44(0)1223-721000

\*Collage Series

### QTV

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Windows Prompter Software

## Tekskil Industries Inc

877-835-7545; 604-589-1100

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## Telescript Inc

201-767-6733

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VidStar Photo Imaging System

LogoStar Insertion System

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\*PC-VLTC Time Code Boards for PCs

## Ampex Corporation

800-752-7590; 650-367-2011

\*DST 712 - 5.8TB Automatic Cartridge Library

\*DST 412 - 24TB, w/up to 330 GB/Cartridge

\*DST 812 - 12.8TB Automatic Cartridge Library

## ANDATACO

800-453-9696; 619-453-9191

\*GigaRAID/FC 5500 - Fibre Channel RAID System

\*GigaRAID/AIA - Ultra SCSI, Dual Controller RAID

GigaRAID 8000 - Ultra SCSI Storage System

## Ascension Technology Corp.

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## AVerMedia Technologies Inc

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## Boland Communications

800-918-9090; 949-367-9911

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\*Gallea - Uncompressed Video Capture and Playback Engine

## Ciprico Inc

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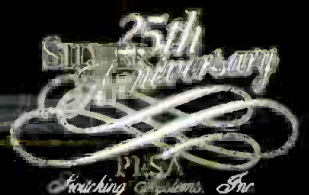
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## Computech International (CTI)

516-487-0101  
\*LVD Disk Arrays - Ultra2 SCSI Low-Voltage Differential Array

## Computer Modules, Inc.

408-496-1881  
\*WAN Master T1/E1

## DataDirect Networks (formerly MegaDrive Systems)

800-322-4744; 818-700-7600  
E-8 LVD High-Speed Network Storage System  
EV-200 Ultra-SCSI Network RAID  
EV-5000 Fibre-Channel Network RAID System  
EV-1000 Fibre-Channel & Ultra-SCSI Network RAID  
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E-2 Ultra-SCSI Disk Array  
Aria Fibre-Channel Disk Array

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DLT Tape Drives

## Fast Forward Video

800-755-8463; 714-852-8404  
Bandit and Bandit SG

## Gefen Systems

800-545-6900; 818-884-6294  
\*Ex-tend-it Monitor, Keyboard Mouse Extenders

## GENROCO

414-644-8700  
\*DVP-2732 DVB Controller

## Hammer Storage Solutions

510-608-4000  
Storage Area Networks  
SledgeHammer Fibre Channel and LVD Storage Subsystems

## Harmonic Lightwaves

408-542-2500  
NETWatch MEM 5000

## Hotronic Inc

408-378-3883  
PC-TBC Plug-in TBC/Frame Sync for Computers

## Image Logic Corp

301-907-8891  
Time Code Reader/Generator cards for PCs

## Imagine Products Inc

317-843-0706  
\*ImageMine Mem/Asset Management

## Lacie Limited

503-844-4500  
\*Data Storage Systems

## LPB Inc

610-644-1123  
\*SALSA NT Network Digital Audio Systems

## Macrovision Corp

408-743-8600  
VES-MX Multiplexer

## Medea Corp.

888 BY-MEDEA; 818-597-7645  
\*VideoRAID SCSI - Disk Arrays for Video Editing  
\*VideoRAID PCI Disk Arrays for Video Editing

## Mercury Computer Systems Inc

800-229-2006; 978-256-1300  
\*SANergy - Heterogeneous File-Sharing SAN Operating System

## Miranda Technologies

800-224-7882; 514-333-1772  
Vivo

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## MountainGate

800-556-0222; 702-851-9393  
\*CentraVision File System/Cross-Platform File-Sharing System

## Nucomm Inc

800-9-NUCOMM; 908-852-3700  
\*DIGI-MUX HDTV/NTSC (MPEG-2) Multiplexer

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\*GA-Link HDTV MPEG-2 Format Converter

DUBASI to SMPTE310

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VSAN Storage Solutions

## Philips Digital Video Systems

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TokenMux Multiplexer

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## Pinnacle Systems

650-526-1600  
ReelTime - No-Render Video Editing Solution

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## Silicon Graphics Inc

800-800-7441; 415-960-1980  
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O2 Desktop Workstation  
Studio Central 1.1

## Sonic Science

800-26-SONIC; 416-351-9100  
Sonic Search v2.7 Sound-Retrieval Software

## StorageTek

800-STORTEK; 719-536-4055  
\*MediaVault

## Transoft Networks Inc

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FibreNet

## Viewgraphics

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DIGITAL FORMAT TRANSLATOR



On June 24, 1998 Yves Faroudja, founder and chief technical officer of Faroudja Laboratories, was awarded the prestigious Charles F. Jenkins Lifetime Achievement Award from the Academy of Television Arts & Sciences for the development of key patents in the area of video processing, encoding, decoding, enhancement and noise reduction.



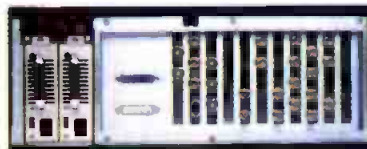
**WINDOWS NT CONTROL SOFTWARE**

The award winning Digital Format Translator™ line from Faroudja provides the solution to broadcast studios and production houses that need HDTV-like images from interlaced analog and digital sources.

The Digital Format Translator applies patented Faroudja technology to produce HDTV-like images at 480P, 720P and 1080I rates plus complete aspect ratio and image scaling controls.

There is far more to HDTV than just scan rates. Only Faroudja's patented technology can match the stunning quality that HDTV offers.

Call today to arrange a demonstration.



750 Palomar Avenue Sunnyvale, California 94086  
Tel: 408/735-1492 Fax: 408/735-8571 Email: sales@faroudja.com  
Web: www.faroudja.com

Circle (28) on Free Info Card

# Product Directory

## Desktop Video

### Broadcast Video Systems Ltd

905-764-1584  
EN 500 VGA-to-NTSC Encoder  
Circle (304) on Free Info Card

**Cinebase Software**  
888-CINEBASE; 310-479-3700  
\*Cinebase Media Library

**Imagine Products Inc**  
317-843-0706  
\*Executive Producer Logging Software

**NewTek**  
800-847-6111; 210-370-8000  
The Video Toaster, Complete Desktop Video Editing System  
The Video Toaster Flyer

**Play Incorporated**  
800-306-PLAY; 916-851-0800  
Trinity 1.1

## Digital Audio Workstations



360 Systems Short/cut Audio Editor

**360 Systems**  
818-991-0360  
\*Short/cut w/4 Hours Internal Storage  
Circle (299) on Free Info Card  
\*Short/cut Personal Audio Editor (See Photo)  
Circle (159) on Free Info Card

**Avid Technology Inc**  
800-949-AVID; 978-640-6789  
\*AudioVision 4.0

**Cartworks/dbm Systems**  
800-795-7234; 601-856-9080  
\*CartWorks Digital Audio Storage/Playback Systems

## Digital Audio Labs

612-559-9098  
V8 II Realtime PC Recording Studio  
CardDSP 8-Channel Real-Time PC Audio Board  
CardDeluxe-Stereo 24bit/96kHz PC Sound Card

**Doremi Labs Inc**  
323-874-3411  
\*Dawn 4

**DSP North America Ltd**  
630-653-1940  
\*Postation

**Fairlight USA**  
800-4-FAIRLIGHT; 310-287-1400  
\*Fame Editing/Mixing System  
\*MFX3 Plus Digital Audio Workstation  
\*DaD Plus Digital Audio Dubber

**Orban**  
510-351-3500  
Audicy

**Pristine Systems**  
310-670-7500  
RapidFire

**Sonic Foundry**  
608-256-3133  
Sound Forge

## Duplication Equipment

### ESE

310-322-2136  
ES-209A 1x12 Video/Stereo Audio DA  
Circle (347) on Free Info Card

### MediaFORM

610-458-9200  
CD5900 Stand-Alone System (Copies up to 8 CDs)  
CD3707 One Button Stand-Alone 7-Drive System  
CD3704 4-Drive Stand-Alone System-Job Streaming

## Film Equipment

Includes: Film cameras; Film color correctors; Film editors; Keycode readers; Telecines

### AFA Products Group

201-750-3200  
\*System Copernicus 601, 4:4:4:4 64-bit Color Correction System

### Alan Gordon Enterprises Inc

800-825-MOVI; 323-466-3561  
\*Slam-Cam 35mm P.D.V. Crash Camera

### Arriflex Corp

914-353-1400  
16mm, 35mm, 65mm Film cameras

### Cintel

805-294-2310  
\*Turbo 3D High-Definition Telecine  
\*URSA Diamond Standard-Definition Telecine  
\*C-Reality, Multistandard Telecine

### Evertz Microsystems Ltd

905-335-3700  
5550/Universal Film Data Decoder w/Universal Reader Head

### Philips Digital Video Systems

800-962-4287; 801-977-1611  
\*Spirit DataCine High-Resolution Film Scanner  
Circle (373) on Free Info Card

## OUR MAST GETS IT UP FAST HILOMAST



### Telescopic Pneumatic Masts

#### FEATURES:

- Full length keyways
- Aluminum collars with low friction slide rings
- Locking collars with thumb screws
- Mast sections heat-treated aluminum alloy
- Alloy pistons with low friction slide rings
- Neoprene seals
- Air inlet valve
- Air release valve

#### COMPETITIVE PRICING

For further information contact  
Jim Osborne

ALLEN OSBORNE ASSOC., INC.  
756 Lakefield Rd., Bldg. J  
Westlake Village, CA 91361  
Tel: (805)495-8420 FAX (805) 373-6067



www.aoa-gps.com  
aoa@aoa-gps.com

Circle (29) on Free Info Card

# THE *CS3100B* ON-AIR MIXING EXCELLENCE

The Euphonix CS3100B ON-AIR broadcast console is designed to perform in the most demanding broadcast environments. With over 50 broadcast installations, the CS3100B's proven track record of technical excellence continues to win over premier ON-AIR studios worldwide. ABC, CBS, FOX, NBC, NHK and many other major networks have chosen Euphonix. Experience the Euphonix difference, call to arrange your own personal test drive by calling one of our local offices.

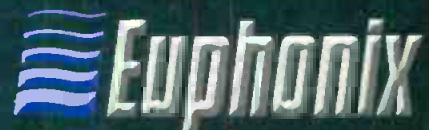
- ✓ High Reliability
- ✓ Superior sound quality
- ✓ Precision surround panning
- ✓ Modular & Expandable
- ✓ Instant Snapshot Recall™
- ✓ High performance dynamics



Headquarters (West US)  
Tel: (650)855 0400  
Nashville (Central US)  
Tel: (615)327 2933

Los Angeles (West US & Int'l)  
Tel: (818)766 1666  
London (Europe)  
Tel: (171)602 4575

New York (East US)  
Tel: (212)889 6869  
Tokyo (Japan)  
Tel: (03)3288 4423

Euphonix

Web site: <http://www.euphonix.com>

Circle (30) on Free Info Card

[www.americanradiohistory.com](http://www.americanradiohistory.com)

# Product Directory



## Quantel Inc

800-218-0051; 203-656-3100

\*Domino Integrated Film Effects System

Circle (190) on Free Info Card

## Ross Video Ltd

613-652-4886

\*CDK 104 Telecine Switcher

Circle (331) on Free Info Card

## Sony Electronics

800-635-SONY

\*FVS-1000 Multiresolution Telecine

Circle (120) on Free Info Card

## Graphics & Animation Systems

Includes: Animation software; Graphics software; Graphics systems

### Artbeats Digital Film Library

800-444-9392; 541-863-4429

\*White Puffy Clouds HD

Artbeats Digital Film Library

### Artel Software Inc

888-77-BORIS; 617-451-9900

\*Boris FX 3.5/Broadcast-Quality Effects For Digital Artists

\*Boris AE 1.0/3D & Image Processing For Digital Artists

## auto.des.sys

614-488-8838

form Z - 3D Modeling, Rendering & Animation Software

## Avid Technology Inc

800-949-AVID; 978-640-6789

\*Avid Marquee

\*Avid MATADOR

## Biomechanics Inc

770-424-5082

\*Nuance Motion Editor - Software to Edit Motion-Capture Data

## Burst Electronics Inc

505-898-1455

LG-1 Logo Generator

## Chyron/Pro-Bel

516-845-3871

\*DUET - Real-time Multipurpose Media Processing Platform

\*Liberty HD

## Hammer Storage Solutions

510-608-4000

\*MediaPlayer - Film Resolution Uncompressed Playback

## Motion Analysis

707-579-6500

\*Falcon Real-Time Character Software

## New World Graphics Inc

302-777-4904

Office Pro II

Professional Designer 3D

## NewTek

800-847-6111; 210-370-8000

\*Resolution Studio, w/Real-Time DTV Playback

\*Aura Animation, Production, Paint & Compositing Software

\*Light Wave 3D 5.6 Modeling & Animation Software

## Nothing Real

310-664-6152

\*Shake 2.0, High-Speed Compositing for High Resolution

## PowerProduction Software

800-457-0383; 408-358-2358

\*Storyboard Quick, Instant Storyboard for Non-artists

\*Storyboard Artist, Professional Presentation Software

## Quantel Inc

800-218-0051; 203-656-3100

\*Hal Video Design Suite

Circle (498) on Free Info Card

\*Paintbox F.A.T. Animation System

Circle (499) on Free Info Card

\*Paintbox Esprit Graphics System

Circle (500) on Free Info Card

## TechnImage Ltd.

+972 9 957 4166

ArtiFace - Facial Animation Software System

## Vegas FX

512-469-9160

\*TOPS ProVideo - Professional Vector-Based Videographics

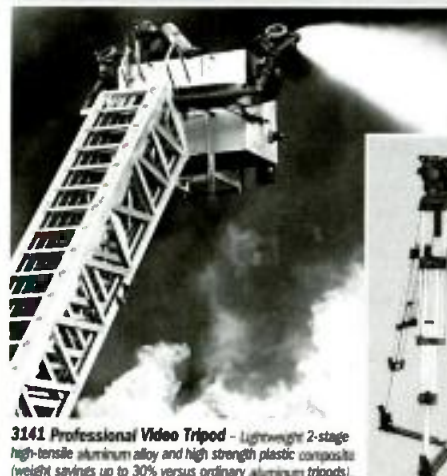
## Video Robotics

213-957-5767

\*Motion Control Workstation for Video Production

# Manfrotto®

## We Can Take The Heat



### 3141-510 Video Tripod

Whether you're covering a three alarm fire, or a heated political debate, you

need equipment that can stand up to a rigorous pace. Made of lightweight high-tensile aluminum alloy, the 2-stage 3141 Professional Video Tripod equipped with the Manfrotto 510 Video Head can withstand the rigors of everyday filming no matter how hot it gets.

For complete information see your dealer, contact us or visit our web site.



**3141 Professional Video Tripod** - Lightweight 2-stage high-tensile aluminum alloy and high strength plastic composite (weight savings up to 30% versus ordinary aluminum tripods). Complete with 100mm bowl, spiked feet and spreader.

**510 Video Head** - An advanced 3-step drag system, zero friction setting and a return to center variable balance spring adjustment. 360° pan and +75° to -70° tilt control with effortless starts and stops. Weighs 8 lbs. and can handle cameras up to 19 lbs. (Model 510) or 23 lbs. (Model 510-10).

Bogen Tripods are now branded under the manufacturer's name...  
**Manfrotto**

Exclusively **bogen**

Bogen Photo Corp., 565 East Crescent Avenue, Ramsey, NJ 07446-0506  
(201) 818-9500 • Fax: (201) 818-9177 • e-mail: info@bogenphoto.com • web: www.bogenphoto.com

Circle (31) on Free Info Card

**TELEX**  
Telex Communications Inc.  
www.telex.com

Telex has a comprehensive family of tried and tested intercom systems and accessories; from one channel party line to the largest matrices in the world.

## Intercom & IFB Products

### Avocet Instruments Inc

800-443-0728; 503-671-9424

Pro-Line 102A Pro Channel Receiver

### beyerdynamic

800-293-4463; 516-293-3200

DT 108/109/100/180/280/250 Headsets

### Clear-Com Systems

510-496-6666

Micro Matrix Digital Intercom System

Matrix Plus 3 Digital Intercom System

ICS-2003 Digital Intercom Display Station

# Power, Stability...

## Why All Roads Lead To Acrodyne.



### Analog

We designed and built the first solid state transmitter in the U.S. Today we've refined our designs to include advanced tetrode and Diacrode® equipped transmitters for the widest range of proven technologies from 1 kW - 240 kW.

Before choosing your next transmitter, remember ACRODYNE's commitment to being *the* technology leader.

### Digital

ACRODYNE DTV Gold Series transmitters take advantage of straightforward, modular designs to offer you the lowest initial cost, dependability and hassle-free maintenance in digital transmission from 2 kW - 100 kW.

Look to ACRODYNE for choices that prepare you for tomorrow with solutions, today.



### Adjacent Channel Technology

Only ACRODYNE offers ACT to pass adjacent digital and analog signals through a *single*, high power amplifier! Using ACT, Diacrode® and advanced tetrodes can be tuned to more than 12 MHz, the bandwidth required for two channels.

Broadcasters with adjacent channels now have a clear economical advantage using ACT.



We've established a reputation for delivering quality transmission products, and that's only the beginning. We have added ACRODYNE Digital Integration. ADi was formed to provide turnkey solutions for DTV, from the studio to the antenna.

*ACRODYNE...preparing you for every turn in the road to digital broadcasting.*

# ACRODYNE

*Leading Edge Television Transmitter Technology!*

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Phone: 800-523-2596 / (215) 542-7000 ■ Fax: (215) 540-5837 ■ E-Mail: [acroinfo@acrodyne.com](mailto:acroinfo@acrodyne.com) ■ [www.acrodyne.com](http://www.acrodyne.com)

# Product Directory

**Comrex Corp**  
800-237-1776; 978-263-1800  
Cue System for Wireless IFB

**Comtek Inc**  
800-496-3463; 801-466-3463  
\*BST-25/PR-25 Synthesized IFB Transmitter/Receiver

**Intraplex Inc**  
877-INTRAPLEX; 978-486-9000  
\*Intralink ISDN Multiplexers

**JK Audio**  
800-552-8346; 815-786-2929  
RemoteAmp - Headphone/Earpiece Amplifier  
RemoteMix 3x4 - Multiline Hybrid Mixer



Telex Communications

**Telex Communications Inc**  
612-884-4051  
ADAM - Advanced Digital Audio Matrix Intercom  
Circle (203) on Free Info Card  
BTR-600/BTR-500 Wireless Intercom System (See Photo)  
Circle (152) on Free Info Card  
RTS-Zeus DSP Intercom System  
Circle (250) on Free Info Card

**Canon** CANON U.S.A., INC.

www.usa.canon.com

Canon Broadcast manufactures a wide range of innovative, breakthrough technologies, including a full line of "next generation" HDTV lenses, HD-IF, and IFxs: the first lightweight, advanced-featured lens.

## Lenses & Accessories

Includes: Lens converters/accessories; Lens systems

**Alan Gordon Enterprises Inc**  
800-825-MOVI; 323-466-3561  
\*Mark V Director's Viewfinder

**Angenieux**  
973-812-3858  
\*High-Resolution Series  
15x8.3AIF  
Cine Digital Kit

**Arriflex Corp**  
914-353-1400  
Variable Primes; Zeiss Lenses



Canon

**Canon Broadcast**  
201-816-2900  
IF+ Full Line of Industry-Standard ENG Lenses  
Circle (485) on Free Info Card  
Crossover Adapter W80Y-85 for Pro-Video Switchable Cameras  
Circle (490) on Free Info Card  
Canon Broadcast HD-IF Line of ENG and Studio HDTV Lenses (See Photo)  
Circle (245) on Free Info Card  
Second-Generation Digi-Super Lenses  
Circle (487) on Free Info Card  
Optically Stabilized Broadcast-Quality Lenses and Adapter  
Circle (488) on Free Info Card  
Crossover Lenses for Broadcast-Quality Switchable Cameras  
Circle (489) on Free Info Card  
IFxs J21aX7.8B Small Lightweight Lens w/Advanced Features  
Circle (484) on Free Info Card  
IFpro YJ/YH18XKRS and YJ/YH18XIRS Lenses  
Circle (486) on Free Info Card

**Fujinon Broadcast & Communications Products Div**  
800-553-6611; 973-633-5600  
\*AH70X DigiPower Field Production Lens  
\*HA36X ENG-Style HDTV Lens  
\*19X Family of Digital ENG Lenses

**Innovision Optics**  
310-394-5510  
6000 Series Endoscope Lens  
\*Probe I & II Lens Systems

**Schneider Corp**  
516-496-8500  
Diopters & Neutral Density Filters  
True Polarizer

**Tiffen Mfg Corp**  
800-645-2522; 516-273-2500  
Precision Controlled Filter Matte Boxes  
FilterFlex-Tiffen Internal Matte Box  
\*FilterFlex-External Matte Box

## Lighting Equipment

**Anton/Bauer**  
800-422-3473; 203-929-1100  
UltraLight 2 Dn-Camera light

**Arriflex Corp**  
914-353-1400  
Various Sizes of HMIs, PARs and Tungsten Fresnels

**Bogen Photo Corp**  
201-818-9500  
DpTex Aurasoft Softlight Series 800  
Circle (473) on Free Info Card  
Elinchrom Scanlite Digital 1000 Quartz Light  
Circle (470) on Free Info Card  
Elinchrom Daylight 175 HMI Light w/Electronic Ballast  
Circle (471) on Free Info Card  
DpTex Aurasoft Softlight Series 600  
Circle (472) on Free Info Card

**Chimera**  
888-444-1812; 303-444-8000  
Daylite Light Banks  
Video Pro Plus Light Banks  
Chimera Lanterns

**Cinemills Corp.**  
818-843-4560  
HMI Lighting Equipment (Single-Ended & Fresnel Units)

**Cool-Lux**  
805-482-4820  
\*U-3 Tri-Light

**Desisti Lighting**  
201-319-1100  
\*Rembrandt HMI Fresnel 200W-1800W  
\*Gova HMI Broad Light 1200W-4000W  
\*Remington HMI PAR 200W-12,000W

**Dove Systems**  
805-541-8292  
\*TM-TS Manual Lighting Controller  
\*DM-406 4x600W Dimmer (Shoebbox)  
\*StarPort Memory Lighting Controller

**Frezzi Energy Systems**  
800-345-1030; 973-427-1160  
MA-50 Full-Spectrum Sun Gun  
Portable Frezzi Lights, Standard, Dimmer & HMI

**GAMPRODUCTS**  
800-GAMCOLOR; 213-461-0200  
Effects: TwinSpin II, FlickerMaster, Etc.  
Great American Patterns - Gobo Patterns & Effects  
GAMCDLDR Color and Diffusion Filters

**High End Systems**  
512-836-2242  
Studio Color Automated Luminaire  
StatusCue Lighting Console  
Technobeam Automated Luminaire  
Cyberlight Automated Luminaire

**Kino Flo Inc.**  
818-767-6528  
\*Image Series Studio Lighting  
\*Trans-Flo Rear-Lit System Studio Lighting  
\*Diva-Lite 400 EFP/ENG Light

**KW/2 Lighting Products**  
800-949-7654; 972-556-2376  
\*M3L Fluorescent Fill Lights  
\*MSL Fluorescent Teleconference Lights  
\*ISL Fluorescent Key Lights

**Lee Filters**  
800-576-5055; 818-238-1220  
\*Lighting Control Filters

**Lowel-Light Mfg Inc**  
800-334-3426; 718-921-0600  
id-Light  
Lighting Products

# TO CONVERT REAL-TIME COMPUTER GRAPHICS TO VIDEO...



1280x1024  
Computer  
Display

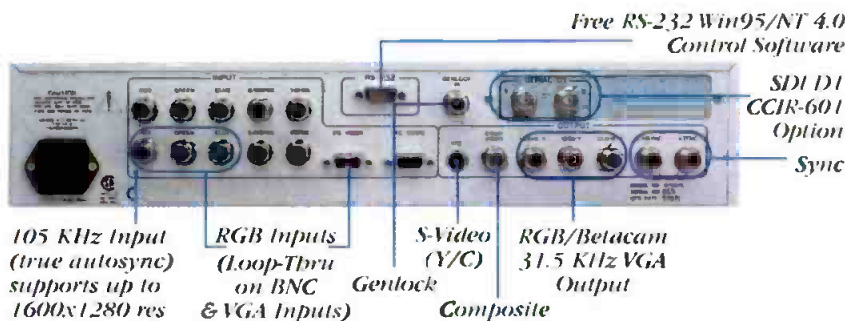
...and get the best possible image, you will need the Model 9400JR or Model 9700XL from Folsom Research.



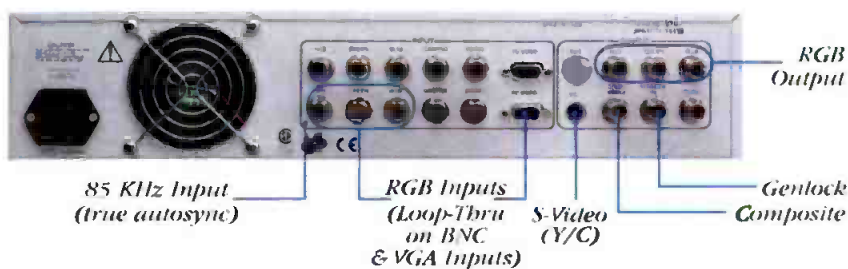
CCIR-601 (D1)  
NTSC/PAL Monitor

You're looking at the two best video scan converters available anywhere. Both can automatically lock to interlaced or noninterlaced video sources and turn your high-resolution workstation, PC, or Mac displays into broadcast-quality video. The Model 9400JR provides excellent picture quality at an affordable price. The 9700XL provides extremely high-quality output images, an advanced feature set (including dynamic pan and zoom), and flexible control over all aspects of the scan conversion process. Now the proof! Call for a demonstration and see for yourself.

## 9700XL



## 9400JR



**Folsom**<sup>TM</sup>  
RESEARCH

11101 A Trade Center Drive  
Rancho Cordova CA 95670  
Tel 916.859.2500  
Fax 916.859.2515  
email: sales@folsom.com  
http://www.folsom.com

# Product Directory

## Matthews Studio Equipment

800-237-8263; 818-843-6715

C-Stands, Clamps, Grip Heads

## Mole-Richardson Co

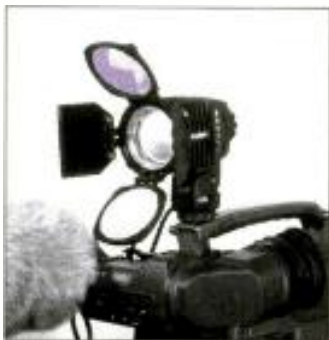
323-851-0111

\*HMI, Tungsten, Kits, Stands and Accessories

## Packaged Lighting Systems Inc

800-836-1024; 914-778-3515

Lighting Systems



PAG Ltd Paglight

## PAG Ltd

+44-181-543-3131

Paglight Halogen or Arc Camera Light (See Photo)

Circle (444) on Free Info Card

## Premier Lighting & Production Co

800-770-0884; 818-762-0884

\*CDTECH Color-Correction Filters

\*ScreenOut-IR Heat Shield

## ROSCO/Entertainment Technology

800-ROS-CONY; 203-708-8915

Intelligent Power System

## Sachtler Corp

516-867-4900

Portable Lighting

## Union Connector

516-623-7461

Electrical Connectors and Power Distribution Equipment

## Videssence Inc

800-579-7577; 650-579-7577

Koolites Lightweight Metal SRGB Fluorescence Fixtures

Studio 2000 Studio/Stage SRGB Fluorescence Fixture Systems

**www.sennheiserusa.com**

Sennheiser is the acknowledged world leader in microphone technology, RF-wireless and infrared sound transmission, headphone transducer technology, and most recently in the development of active noise-cancellation.

**Microphones & Accessories**

Includes: Microphone accessories; Microphones; Wireless mics

## AKG Acoustics US

615-360-0499

C1000S Condenser Interview Microphone

C577 Dual Diaphragm Lavalier Mic

HSC200 Headphone/Microphone Broadcast Headset

D230 ENG Dynamic Microphone

Alan Gordon Enterprises Inc

800-825-MOVI; 323-466-3561

\*MC-1 Microphone Coupler

## Audio-Technica US Inc

330-686-2600

30 & 40 Series Broadcast-Related Microphones

7000 Series UHF, 1200 Series VHF

## Azden Corp

516-328-7500

111LT VHF Wireless Lavalier System

400HT 63 Frequency UHF Wireless Handheld System

400BT 63 Frequency UHF Wireless Lavalier System

## beyerdynamic

800-293-4463; 516-293-3200

MCE7 Lavalier Microphone

\*MCE 58 High-Output ENG Microphone

M58/MCE58 Microphones

\*MCD 800 Digital Microphones for DTV

\*MCD 101/100 Digital Microphones for DTV

MCE Series Shotgun Microphones

## Bogen Photo Corp

201-818-9500

Gitzo Microphone Shock Mounts

Circle (475) on Free Info Card

## Comtek Inc

800-496-3463; 801-466-3463

\*MRC-82CLS Camera Companion Wireless Mic System

## DPA Microphones

+45 4814 2828

\*4060: Miniature Microphone, Hi-Sens

\*4035: Headset Microphone, P48

\*4065 Miniature Microphone Headband

## Electro-Voice

800-234-6831; 616-695-6831

RE50 - Dynamic Handheld Broadcast Mic

635N/D High-Output Dynamic Handheld Broadcast Mic

635A - Dynamic Handheld Broadcast Mic



Lectrosonics Inc VHF & UHF Wireless Mics for ENG/EFP/Studio Applications

## Lectrosonics Inc

800-821-1121; 505-892-4501

VHF & UHF Wireless Mics for ENG/EFP/Studio Applications (See Photo)

Circle (324) on Free Info Card

## Neumann USA

860-434-5220

\*KM 184 StereoPairs

## Pearl Microphone Laboratory

+46-42-58-810

CC 22 Mono Cardioid Studio Microphone

TL 44 Stereo/Mono Studio Microphone

MS 8CL MS-Stereo for TL-Film-Video

## Premier Wireless Inc

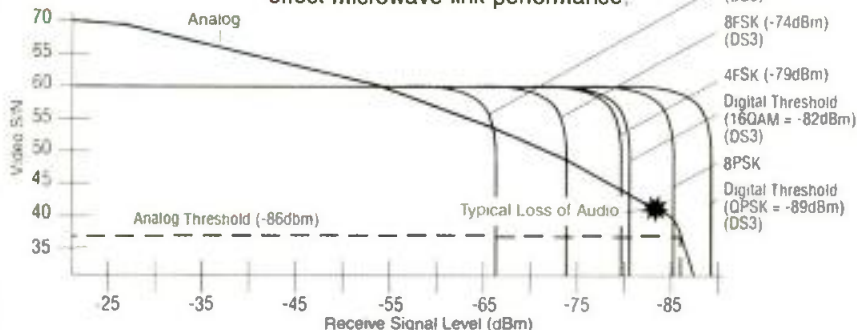
925-449-2101

BE-450/460 Diversity Wireless System

Sponsored by Nucomm. [www.nucomm.com](http://www.nucomm.com)

## Tech Tip

Your choice of a modulation scheme can effect microwave link performance.



**The doctor is in!**

**Check him out at:**

**[drdigital.com](http://drdigital.com)**





# NDS has the DTV solution for every resolution.

The debate about digital TV is raging on, but one thing is perfectly clear: whether you're planning to use 480p, 720p, or 1080i, there's only one company to turn to for your DTV solution — NDS.

With our extensive range of contribution, distribution and ATSC station products, you can count on NDS.

NDS is your one stop shop for high definition and standard definition encoding, multiplexing, modulation, MPEG splicing, ad insertion, conditional access and system control. Our decades of digital experience and proven leadership in the design, manufacture and integration of digital television products make us the right choice to help you win with DTV.

NDS has developed proven DTV solutions; and the products, systems and solutions we've created for ATSC will be the ones selected by leading broadcasters. Just like yourself.

Life may be full of resolutions, but there is only one company with the complete ATSC solution. See it for yourself. Call NDS Today.



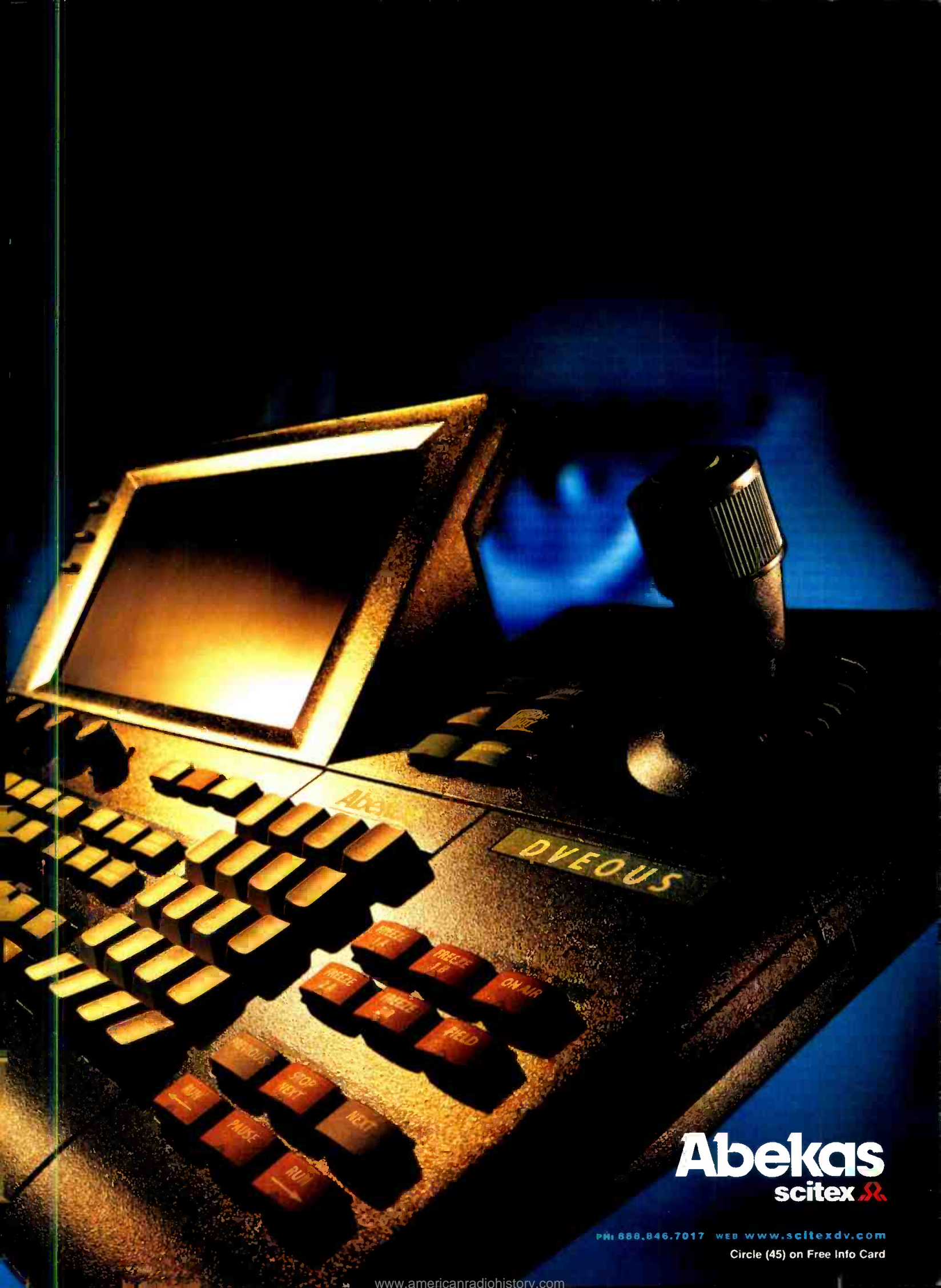
NDS Americas Inc.  
3501 Jamboree Road Suite 200, Newport Beach, CA 92660  
949.725.2554 [www.ndsworld.com](http://www.ndsworld.com)

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Circle (44) on Free Info Card



**T H E   D E S I R E D   E F F E C T .**



**Abekas**  
scitex 

PH: 888.846.7017 WEB [www.scitexdv.com](http://www.scitexdv.com)

Circle (45) on Free Info Card

# Product Directory



Sennheiser Electronic Corp

**Sennheiser Electronic Corp**

860-434-9190

\*Evolution Microphone Series

Circle (262) on Free Info Card

\*EM3532 Wireless Microphone Receiver

Circle (263) on Free Info Card

\*SKM 3072-U Wireless Microphone

Circle (141) on Free Info Card

EK3041-U Miniature True-Diversity Receiver  
(See Photo)

Circle (483) on Free Info Card

**Shure Brothers Inc**

800-25-SHURE; 847-866-2200

\*VP88 Single-Point Stereo Microphone (M-S)

\*SM7A Dynamic Studio/Voice-Over Mic

\*SM89 Highly Directional Professional Shotgun  
Condenser Mic

\*SM631B On-camera Black Extender Handle Mic

\*VP64AL On-camera Video/broadcast Handheld  
Mic

**Telex Communications Inc**

612-884-4051

UT-500 Plug-On UHF Transmitter

Circle (154) on Free Info Card  
ENG-500 Broadcast ENG Receiver

Circle (153) on Free Info Card

USR-100 Wireless Microphone System

Circle (251) on Free Info Card

**Vega**

800-877-1771; 626-442-0782

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\*Q+/Q600 Wireless Intercoms

\*U2020 Series Wireless Mics

\*T-690 Series UHF Transmitters

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\*R-672 - UHF Receiver



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**Fiber Options Inc**  
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601B  
1315B  
2045B/SB, 2031B/SB

**Force Inc**  
800-732-5252; 540-382-0462  
\*Comlux Multichannel Digital Video Fiber Tx/Rx System  
\*DTV Linx 270Mb/s-1.5Gb/s Digital Video Fiber Tx/Rx System

**Gentner Communications Corp**  
800-945-7730; 801-975-7200  
\*TS612

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**Global Microwave Systems**  
760-631-8021  
STM/SRM Multiband Transmitter/Receiver

**Harris Corporation Broadcast Systems Division**  
513-459-3400

\*MultiLink CD Dual ATSC/NTSC STL  
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**Henry Engineering**  
626-355-3656

Audio OnLine Telephone Information System

**Innovative Devices Inc**  
888-890-7424; 250-260-2861

TP33 Digital Tri-line Phone  
MITS Digital Multiline Phone System

**Intraplex Inc**  
877-INTRAPLEX; 978-486-9000  
\*STL PLUS System: Digital STL System

**Ipitek**  
888-4-IPITEK; 760-438-8362  
\*IMTRAN Multichannel Video Transmission System

IMTRAN DS-3 Interface  
\*IMTRAN Data Transmission Interfaces

**ITELCO USA Inc**  
303-464-8000  
\*1.7GHz-13.2GHz 1W to 20W Microwave Systems

**JK Audio**  
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RemoteMix 3-Phone Line/Handset Interface

**Macrovision Corp**  
408-743-8600  
VES-TM, VES-TL, VES-MX



Microwave Radio Communications  
Twinstream

**Microwave Radio Communications**

800-490-5700; 978-250-1110  
\*Twinstream (See Photo)

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\*DAR Radio

Circle (208) on Free Info Card

**Multidyne Inc**  
800-4TV-TEST; 516-671-7278

\*DTV-220 Serial Digital Video Transport

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\*DTV-200 Serial Digital Video DA & Reclocker

Circle (440) on Free Info Card  
FTX-95/FRX-95

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**N Systems Inc**  
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\*Superquad Central Receive Systems  
\*Silhouette Transmit Antennas  
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**Nucomm Inc**  
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FT/FR7 DIGI-QAM HDTV Digital-Ready Microwave STL(See Photo)

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\*70DMT/DRM7 Digital HDTV 70MHz Modems  
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\*MMPT6 Digital-Ready ENG Transmitter  
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**Ortel Corp**  
800-362-3891; 626-281-3636  
\*Model 10357A and 10457A 1F-Band  
\*Model 10347A and 10447A L-Band  
\*Model 10346A and 10446A L-Band  
\*Fiber-Optic Interfacility Links

**Physical Optics Corp**  
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\*1200 Fiber-Optic Digital Audio (AES/EBU) Transport System  
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\*1000 Fiber-Optic Serial Digital Video Transport System

**SiCOM**  
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\*BitFLOW High-Speed Modems

**Telecast Fiber Systems**  
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\*Viper - Video/Audio/Intercom

**Television Equipment - Matthey**  
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\*RF-3004 Serial Video to Fiber-Optic Links  
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**Telex Communications Inc**  
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CamLink II S200 Camera-Mounted ENG Transmission System  
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**Tron-Tek Inc**  
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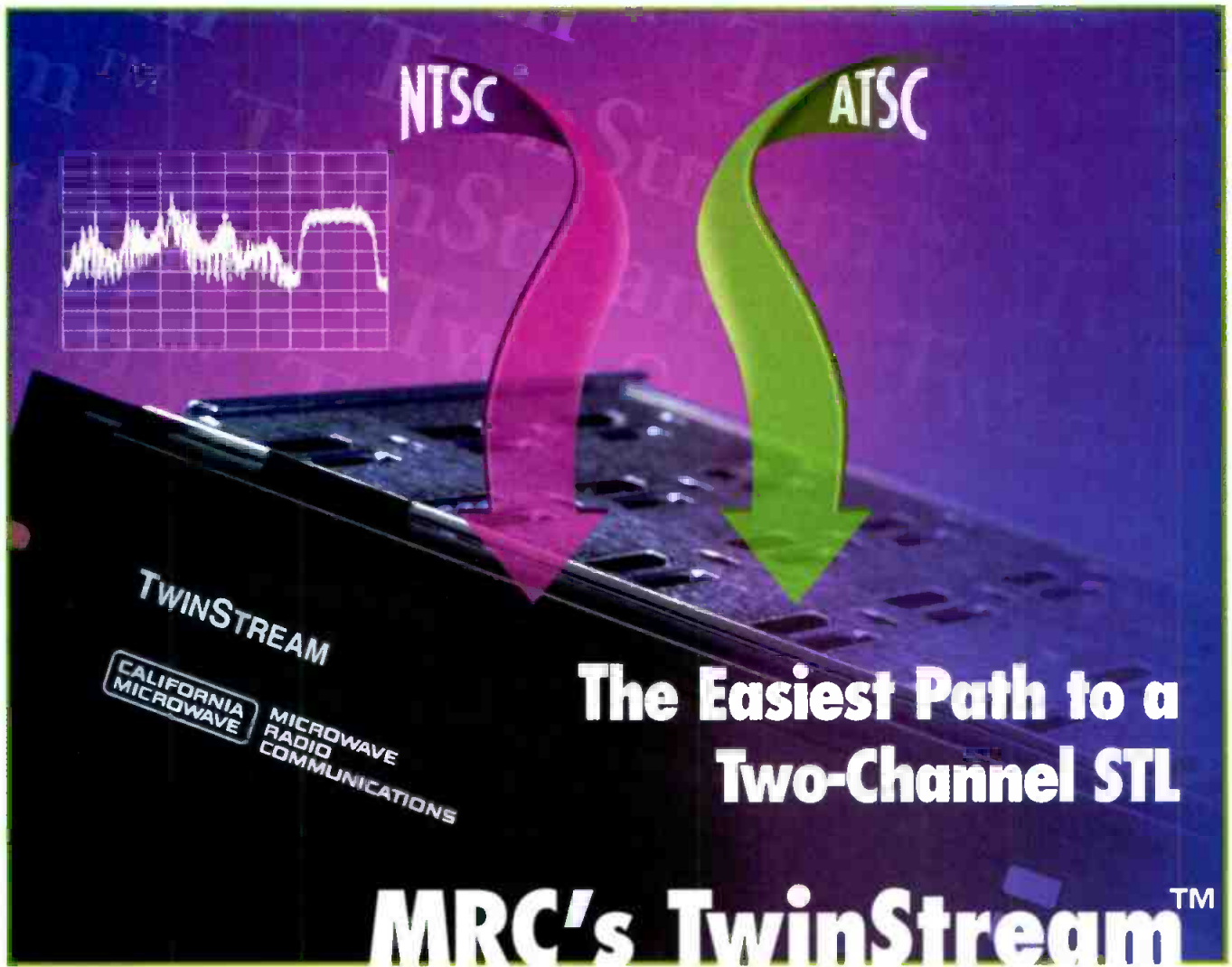
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Includes: Batteries; Battery analyzers; Battery chargers; Lightning protection products; Power (AC) products; Power supplies

### AAP Inc.

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Diesel Generators

### Anton/Bauer

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InterActive 2000 Series Power Chargers

Hytron 50WH Logic Series Battery

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### Aspen Electronics

714-379-2515

RQ-4 Battery Charger/Discharger

Analogue Battery Maintenance Software

Belden Wire & Cable Company

800-BELDEN1; 765-983-5200

PowerBrite AC Power Cords

Best Power/North Star Technical Services

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Patriot Line of Workstation UPSs

Unity/I UPS Line of 3-Phase Protection Units

Christie Electric Corp

310-715-1402

CASP/1500 and 1100 chargers

Control Concepts Corp/Liebert

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**Website** <http://www.pag.co.uk>

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# Product Directory



Duracell

**Duracell North Atlantic Group**  
800-4PROCELL; 203-796-4000  
Duracell USA Full Line of Batteries (See Photo)  
Circle (512) on Free Info Card

**Equi=Tech Corp**  
541-597-4448  
\*Model ET 10W/Wall Cabinet Balanced Power System  
\*Model ET 2R/Rack-Mount Balanced Power System

**ERI - Electronics Research**  
812-925-6000  
\*Lightning Protection/Dissipation & Grounding Systems

**Exeltech**  
800-886-4683; 817-595-4969  
DC/AC Invertors

**Frezzi Energy Systems**  
800-345-1030; 973-427-1160  
M2100, Advanced Battery Charger, Analyzer & Power Supply  
Ultra Capacity FNP-1MH, Nickel-Metal Hydride Battery  
NP1-3Pi Hot Swap Battery Adapter Box

**Furman**  
707-763-1010  
IT-1230 Isolation Transformer, Balanced Power 30A  
PowerLink AC Sequence Controller  
ASD-120 Sequenced AC Power 120A (20Ax6)

**IDX Technology**  
619-560-9779  
\*IA-60 60W Camera Power Supply  
\*KL-4 4-Channel Sequential Fast Charger  
\*NP-L40 40W NP-Style Lithium Ion Battery

**Lightning Eliminator & Consultants Inc**  
800-521-6101; 303-447-2828  
DLP-DIN  
Sandwich Block  
Lightning Protection

**MGE UPS Systems**  
800-344-5070; 714-557-1636  
Pulsar ES 2, 4,7,10  
Comet UPS

**Mole-Richardson Co**  
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\*SE 4075-44 480V 75kVA 3-Phase UPS  
\*MVR-48TCIY333 480V Industrial Phase Controlled Regulator  
\*SVR-12NBSN015R - 120V Rack-Mount Regulator

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Smart Data Center XR

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**Avid Technology Inc**  
800-949-AVID; 978-640-6789  
\*Avid Media Illusion v5.0

**Broadcast Video Systems Ltd**  
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\*Masterkey 6 Serial Digital Linear Downstream Keyer  
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\*Masterkey 7  
Circle (303) on Free Info Card

**ECHOlab Inc**  
781-273-1512  
5000 Series Switchers  
2000 Series Switchers  
**Ensemble Designs**  
530-478-1830  
Catalyst CV Video Production Switcher  
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**Evertz Microsystems Ltd**  
905-335-3700  
\*HD9525LG HDTV Logo Inserter  
9525 Downstream Keyer

**Eyeon Software Inc.**  
905-944-4271  
\*Digital Fusion Software

**For-A Corp of America**  
714-894-3311  
VPS-400 Digital Component Switcher

**Hotronic Inc**  
408-378-3883  
AQ21-SP TBC/Switcher w/Digital Effects & Chroma/Luma Keyer

**Kalidea**  
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\*KCL101 - Stand-Alone Digital Chromakeyer w/Mixer

**Miles**  
+44-1635-552-524  
\*M41+ Logo Generator

**Panasonic Broadcast & Digital Systems Co**  
800-528-8601; 323-436-3500  
\*AV-HS3100 Millennium 1080i 10-input Switchers

**Parkervision**  
800-532-8034; 904-737-1367  
CameraManSTUDIO Production Automation System

**Philips Digital Video Systems**  
800-962-4287; 801-977-1611  
\*Diamond Digital Series of Production Switchers  
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**Pinnacle Systems**  
650-526-1600  
AlladinPro - Affordable, High-Quality Digital Video Effects  
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**Genie DVE**  
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# Product Directory



## Quantel Inc

800-218-0051; 203-656-3100

\*Henry V8 Effects Editor

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\*Henry Infinity - Infinite-Layered Effects Editor

Circle (189) on Free Info Card



Ross Synergy Series Digital Switchers

## Ross Video Ltd

613-652-4886

\*RossGear Analog and Digital Video Keyers

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\*CDK 101/104 Keyers

Circle (332) on Free Info Card

\*Synergy Series Digital Switchers, Analog Video Switchers (See Photo)

Circle (325) on Free Info Card



Scitex Digital Video Dveous A5000 DVE

## Scitex Digital Video

888-846-7017; 650-369-5111

\*Dveous A5000 DVE (See Photo)

Circle (450) on Free Info Card

\*A8150 Digital Compositing Switcher

Circle (185) on Free Info Card

\*StrataSphere Digital Compositing System

Circle (449) on Free Info Card

\*Dveous A5100 DVE

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## Sierra Video Systems Inc

916-478-1000

Mirage

## Snell & Wilcox

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Magic DaVE

\*HD1012/1024 High-Definition Production Switcher



Sony HDS-7000 High-Definition Production Switcher

## Sony Electronics

800-635-SONY

\*HDS-7000 High-Definition Production Switcher/DME (See Photo)

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7000 Series of Standard-Definition Production Switchers/DMEs

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## Tektronix Inc Video & Network Division

800-547-8949

\*Grass Valley 110HD Production Switcher

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\*Grass Valley Krystal Digital Effects System

Circle (386) on Free Info Card

\*Grass Valley 1200, 2200, 4000 Series Switchers

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CV120 Component Digital Switcher

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## Videotek Inc

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\*CDS-2500A Metal Particle Degausser, Conveyor Style

\*TD-5 Metal Particle Tape Degausser

## BASF Magnetics Corporation

888-295-5551; 805-295-5551

Magnetic Tape

## Garner Industries

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\*Eliminator 4000FS Bulk Eraser

## JVC Professional Products Co

800-JVC-5825; 973-315-5000

\*D-124 2-Hour Videocassette

## Maxell Corp of America

800-533-2836; 201-794-5922

\*D-5 Cassette

\*1" Cassette for HDTV

## MININEC Broadcast

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Thin-Wire Antennas

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Professional Engineer

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Philips is dedicated to helping you make a smooth transition to the DTV future, with digital products and solutions that span the gamut: cameras, film imaging, production switchers, video servers, routing switchers, master control solutions, digital compression, and transmission systems. Wherever you need for DTV, Philips is ready today. To learn more, call us toll free at 1-800-962-4287 or visit our web site at [www.broadcast.philips.com](http://www.broadcast.philips.com)

Circle (47) on Free Info Card



## PHILIPS

*Let's make things better.*

# Product Directory



Quantegy Betacam Tapes

## Quantegy Inc

770-486-2800

Video and Audio Tape Accessories

Circle (426) on Free Info Card

Betacam Full Line of Tapes (See Photo)

Circle (267) on Free Info Card

Analog Audio Tapes

Circle (425) on Free Info Card

## Sanix Corp

+81 3 3702-5315

Bulk Tape Erasers

Recording Media and Accessories

Sony Electronics Inc./Recording Media

201-476-8000

SDX Line of Tapes for BetaSX

ProDAT/DARS-MP/DARS-116/DASV

PDV-M DV Tape Line

BCD Series Metal Tape

## Videomagnetics Inc

800-432-3887; 719-579-6643

Bulk Erasers & Tape Degaussers

A screenshot of the Andrew Corporation website. The page features a header with the Andrew logo and the text 'In a Competitive World...'. Below the header, there are several sections with images and text, including 'Spotlight: Your Andrew Antenna System Planner...', 'New Product Announcement: E-series Best solution and improved Performance...', and 'Visit Andrew Corporation's new DTV section...'. The website URL 'www.andrew.com' is displayed at the bottom of the screenshot.

www.andrew.com

Visit Andrew Corporation's new DTV section, featuring information, products, and services designed to help broadcasters meet their DTV transition challenges with confidence.

### RF Feedline, Components & Towers

Includes: Dummy loads; RF combiners; RF transmitting tubes; Tower accessories; Tower lighting equipment; Towers; Transmission line (RF); Transmission line accessories

## ADC Broadcast Systems Division

724-941-1500

\*N+1 UHF Channel Combiner

Circle (232) on Free Info Card

## Allied Tower Company Inc

800-332-0025; 281-535-0501

Towers

## Altronic Research Inc

800-482-5623; 870-449-4093

\*6700 Air-Cooled Dummy Loads

\*5800 Self-Contained Heat Exchanger

## Andrew Corp

800-DIAL-4-RF; 708-349-3300

\*MACXLine, HRLLine and Accessories

Circle (457) on Free Info Card

\*Transmission Line

Circle (212) on Free Info Card

## Bomar Interconnect Products Inc

973-347-4040

\*SPX7/16, Heavy-Duty 7/16 Connectors

## Burle Industries Inc

800-366-2875; 717-295-6000

Broadcast Tubes

## Central Tower Inc

800-664-8222; 812-853-0595

\*Towers



CPVEimac K275W 75kW Analog IOT

## CPI/Eimac Division

800-414-TUBE; 650-592-1221

K275W 75kW Analog IOT, Peak of Sync Visual (See Photo)

Circle (430) on Free Info Card  
Analog IOTs

Circle (427) on Free Info Card

K2D110W 110kW Peak Power IOT, 25kW Avg

Circle (428) on Free Info Card

\*HDTV IOTs

Circle (147) on Free Info Card

K2D75W 75kW Peak Power IOT, 18kW Avg

Circle (429) on Free Info Card

\*IOT Line (Dual-Mode Models)

Circle (146) on Free Info Card

## Dielectric Communications

800-341-9678; 207-655-4555

\*EHTLine

\*DTV Filters

\*digiTLine

\*Motorized Coaxial Switches

\*N-1 Combiner

## EEV

800-DIAL-EEV; 914-592-6050

IOT8404

\*IOTD2100

\*IOTD150R/W

IOT-8505

\*IOTD3100W

\*IOTD270

## ERI - Electronics Research

812-925-6000

\*Towers-Guyed, Self-supporting, Analysis, Reinforcing

## Euclid Garment Manufacturing Company

330-673-7413

RF Safety Products

## Gold Line Inc

203-938-2588

Dummy Loads

## Honeywell Hughey & Phillips

805-581-5591

\*FAA Lighting for Tall Towers

## ID-ER Antenna Products

610-458-8418

Antenna ID Tags

FCC Antenna Registration Signs

Tower Site ID Products

## Litton Electron Devices

800-861-1UHF; 717-326-3561

\*Line of IOTs, Klystrons and CEAs

\*Complete Line of TWTs for C- and Ku-Band

## Litton Life Support

800-553-1860; 319-383-6000

\*TK-NRI-A000-II InstaGas Nitrogen Pressurization System

\*LM-N51-P InstaGas Nitrogen Line Monitor

## Magnum Towers Inc

916-381-5053

\*Towers

## Micro Communications

800-545-0608; 603-624-4351

\*Series 49000 N-1 Channel Combiner

## Motorola Semiconductor Products Sector

800-521-6274; 602-244-7108

MRF15G- 300W 175MHz RF Power MOSFET

MRF374 - 120W 470-860MHz RF Power MOSFET

MRF373 - 60W 470-860MHz RF Power MOSFET

## MYAT Inc

201-767-5380

\*7 3/16" Transmission Line

\*8 3/16" Transmission Line

\*6 1/8" Transmission Line

\*4 1/16" Transmission Line

\*RF Power Combiners

## Penta Labs

800-421-4219; 818-882-3872

\*Full Line of RF Power Tubes

## Phillystran

215-368-6611

Phillystran High-Performance Tower Guys

## PiROD Inc

219-936-4221

\*Solid Rod Towers to 1500 ft

## RFS Broadcast (Cablewave)

203-239-3311

Flexwell Cables and Connectors

## Shively Labs

888 SHIVELY; 207-647-3327

\*Patented B-Line

\*Dual-Channel Combiner

## Stainless Inc

215-699-4871

Towers

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# imaging Series

## Digital Video & Audio Interfaces

"The installation of a new all-digital production switcher into an all-analog broadcast facility created a big challenge. The Miranda imaging Series of conversion products have exceeded our expectations with the flexibility and stability that we needed in our transition to digital."

-Bob Sink, Engineering Maintenance Supervisor

UPN44 WTOG, St. Petersburg, Florida

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Miranda Technologies inc.

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Fax. 514.333.9828

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[www.miranda.com](http://www.miranda.com)

### The imaging Series Modular Digital Video And Audio Interfaces

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- ✓ 4:2:2/NTSC/PAL encoders and decoders
- ✓ 4:2:2/CAV D to As and A to Ds
- ✓ Audio D to As and A to Ds
- ✓ 4:2:2 & 4fsc Converters
- ✓ Lcgo Generators
- ✓ Ancillary Data Processors
- ✓ 4:2:2 Ethernet MUX/DEMUXs
- ✓ Digital Video & Audio DAs
- ✓ Frame Synchronizers

Ask about our ICP-S remote control software!

and New!

### Symphonie Housing Frame

- ✓ 4FU frame fits up to 16 imaging Series video and audio modules
- ✓ Full power redundancy with second power supply
- ✓ Built-in serial port for remote control
- ✓ Hot-swappable boards and power supplies



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[www.americanradiohistory.com](http://www.americanradiohistory.com)

# Product Directory



Thomson Tubes TH 770 IOT, Water-Cooled, 25kW Avg DTV

### Thomson Tubes Electronics

+33 (1) 30 70 35 00

\*TH 563 Tetrode, 10kW Avg DTV power

Circle (383) on Free Info Card

\*TH 610 Diacode, Air-Cooled, 5.5kW Avg DTV

Circle (382) on Free Info Card

\*TH 680 Diacode 22kW Avg DTV or 25kW NTSC + 3kW DTV

Circle (381) on Free Info Card

\*TH 760 IOT, Water-Cooled, 19kW Avg DTV

Circle (380) on Free Info Card

\*TH 770 IOT, Water-Cooled, 25kW Avg DTV (See Photo)

Circle (379) on Free Info Card

### TWR Lighting Inc

713-973-6904

\*Aviation Obstruction Lighting Systems

## Satellite Equipment

Includes: Satellite receivers and antennas; Satellite uplinks

### Advent Communications Ltd

+44 1494 774400

\*Major Fixed Earth Stations to VSAT

### Andrew Corp

800-DIAL-4-RF; 708-349-3300

\*Electronics and Digital Conversion Equipment

Circle (459) on Free Info Card

\*Earth Station Antennas

Circle (291) on Free Info Card

\*SNG Antennas

Circle (461) on Free Info Card

### Comtech Antenna Systems Inc

407-892-6111

Satellite Receive Antennas

### CPI Satcom Division

650-846-3700

\*Klystron Power Amplifiers

\*Solid-State Amplifiers

\*TWT Amplifiers

\*Satellite Transceivers

### EEV

800-DIAL-EEV; 914-592-6050

CPS 100/120/150 Antennas

\*Stellar Satcom Amplifiers

### FM Systems Inc

800-235-6960; 714-979-3355

\*FMU622CA Subcarrier-Stereo Mult. Upconverter

### LandSea Systems Inc

757-468-0448

M-4 High-Speed Packet Data

### LNR Communications Inc

888-LNR-7858; 516-273-7111

Earth Station Antennas

### Logic Innovations

888-34-LOGIC; 619-455-7200

IPEDG Encapsulates IP Data for Broadcast

### MCL Inc

630-759-9500

\*MXC Series Amplifier Redundant Systems

\*MX3000/5000/7000 Series TWT Amplifiers

\*MX9000 Series Klystron High-Power Amplifiers

### Newtec America

203-323-0042

\*DVB & HDTV QPSK/8PSK/16QAM Modems

### Osicom Technologies, Inc.

301-317-7483

AL3300 Satellite TVRO L-band FO Link

### Philips Digital Video Systems

800-962-4287; 801-977-1611

Consumer IRDs, Satellite & Cable

Circle (370) on Free Info Card

### Prodelin Corp

828-464-4141

Satellite Antenna Systems

### RSI Power Technologies Inc

850-664-0509

\*Microwave Amplifiers for Satellite Uplinks

### Satellite Export & Engineering

800-470-3510; 517-629-5990

\*Patriot Antennas

### SSE Telecom

510-657-7552

RF Equipment for Satellite Earth Stations

### Standard Communications Corp

310-532-5300

MT900B Intercontinental Multistandard Receiver

\*MT830BR Agile Omni Broadcast Receiver

\*Alteia MPEG-2 4:2:2 Receivers and Decoders

MT830IBR Agile Omni International Broadcast Receiver

### TV/Com International

619-618-3500

P2020 Commercial Satellite Receiver

### Wegener Communications Inc

800-848-9467; 770-814-4000

\*UNITY4422 Receiver - MPEG 4:2:2 Satellite Receiver

Circle (507) on Free Info Card

\*UNITY4000 Receiver - DVB Compliant MPEG-2 Satellite Receiver

Circle (509) on Free Info Card

## Studio & Facility Accessories

Includes: Alarm systems; Cable management systems; Cable reels; Cleaning equipment/products; Electronic components; Engineering software; Master clock systems; Mechanical components; Outdoor display equipment; Racks/furniture; Studio accessories; Tools; Transport cases; Utility carts; Weather/data systems

### A&J Cases

800-537-4000; 310-216-2170

Shipping Cases & Containers

### AccuWeather Inc

800-566-6606; 814-237-0309

Exclusive AccuWeather Forecast

WeatherPager Weather Warning System

AccuNet Web Content

UltraGraphix Animator Weather System

MetStation Weather Data System

\*UltraGraphix ULTRA Weather System

\*Live Weather Video Reports

FirstWarn Weather Warning System

### Advanced Furniture Systems

970-663-4123

Modular Studio Furniture

### Allen Avionics Inc

516-248-8080

\*Delay Lines

\*Wide Bandwidth Hum Eliminators

HDTV Filters

### Beck Associates Inc

888-422-8600; 512-252-7555

\*Consoles & Racks

### Broadcast Electronics Inc

217-224-9600

Studio Furniture

### CANARE

818-365-2446

5-Way Cable Stripper

### Chief Manufacturing Inc

612-894-6280

ELC-520 Video Lift Case

SV-1 LCD Projector Stands

### Clark Wire & Cable

800-222-5348; 847-949-9944

Cable Reels

### E-Z UP International, Inc

800-45-SHADE; 909-781-0843

E-Z UP Instant Shelter

## AE-2.... 6 Memories

### High Speed DTMF Encoder

- 2-WAY RADIO
- BROADCAST
- SECURITY
- FIELD PROGRAMMABLE
- 6-26 VDC @ .5ma
- 180 DIGITS

## Pipo® Communications

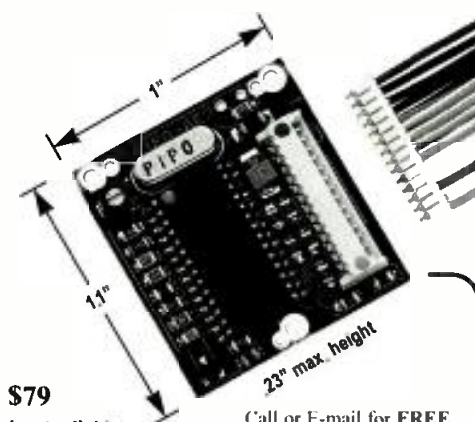
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## The DPS-470 Serial Digital AV Synchronizer

EVERYTHING  
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**VIDEO:**  
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Composite  
Y/C  
Component

**AUDIO:**  
SDI Embedded  
AES/EBU Digital  
Analog Balanced

The DPS-470 serial digital component AV synchronizer is the ideal choice for broadcasters transitioning to DTV. Available in video and audio/video configurations, the DPS-470 bridges the gap between analog and digital production facilities. 10 bit ITU-R 601 component processing and adaptive comb filter decoding provide maximum signal transparency. A built-in auto sense TBC and digital test pattern generator round out the features.

For combined video and dual stereo audio synchronization, add the DPS AS-470 internal digital audio synchronizer option. Because all outputs are active, analog and digital devices can be connected at the same time.

As you move to DTV, the DPS-470 is your insurance against obsolescence. And you won't pay a premium!

EVERYTHING  
OUT

**VIDEO:**  
SDI Serial Digital  
Composite  
Y/C  
Component

**AUDIO:**  
SDI Embedded  
AES/EBU Digital  
Analog Balanced



**DPS**  
www.dps.com  
800-775-3314

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www.americanradiohistory.com

# Product Directory

## EDX Engineering Inc

541-345-0019

- \*TVSR-Channel Allocation Studies
- \*SIGNAL-RF Coverage & Interference
- \*EDX SignalPro-RF Coverage & Interference

## Ergo

800-635-9297; 714-992-0874

Rack-Mount Slide Kits & Shelving

## ESE

310-322-2136

\*LX-5116 16" Self-Setting Analog Clock

Circle (136) on Free Info Card

LX-5105 5" Self-Setting Analog Clock

Circle (137) on Free Info Card

PC-471 SMPTE Time Code Reader PC Card

Circle (138) on Free Info Card

ES-101, -102, -185A GPS Master Clocks/Time-Code Generators

Circle (252) on Free Info Card

## Forecast Consoles Inc

800-735-2070; 516-253-9000

Post-Production Consoles

Broadcast Consoles

Image Master Consoles

## Gennum Corp

800-263-9353; 905-632-2996

\*ICs Specific to the Video Industry

## Hardigg Cases/Hardigg Industries

800-542-7344; 413-665-2163

Cost-effective Fly Packs and Standard Cases

Shock-Mounted EIA Rack-Mount Cases

## Horita Co Inc

949-489-0240

GPS-MTG GPS-based Master Time-Code Generator

Circle (464) on Free Info Card

## Kart-A-Bag

800-423-9328; 815-723-1940

Tri-Kart 800, Carries 300 lbs, Telescoping

Kartmaster HD 500S Carries 500 lbs, Telescoping

## KD Kanopy, Inc.

800-432-4435; 303-650-1310

KD Majestic

Party Shade

## Ledtronics Inc

800-579-4875; 310-534-1505

LEDs for Panels and Displays

## Maxell Corp of America

800-533-2836; 201-794-5922

\*CL-S Cleaning Solution

## MilesTek Inc

800-524-7444; 940-484-9400

50-70101 Aluminum Rack 19"x 84"

## Mole-Richardson Co

323-851-0111

\*Tools, Equipment and Expendables

## Nalpak Video Sales Inc

619-258-1200

TuffPak Hard Cases

Magliner Kart System

## Peerless Industries Inc

800-729-0307; 708-865-8870

\*TV/Monitor Mounts & Accessories

## Penny & Giles Inc

310-452-4995

PGF 3000 Series Faders, Motorized & Standard

PGF 8000 Series Motorized & Standard Faders

## Plastic Capacitors Inc

773-489-2229

Line of Electronic Components

## Porter Case Inc

800-356-8348; 219-289-2616

PHCS Carry-Dn Case w/Wheels and Cart for Cameras

AVCS - LCD Projector Case

FMCS Layered Foam Case w/Wheels and Cart

## Pro Cvc

503-231-1211

Table Top 3.5' to 5' Modular Cyclorama Systems

Built-In & Free-Standing Cyclorama Systems

## Progressive Marketing Products Inc.

800-368-9700; 714-528-2072

EIA Consoles & Equipment Racks

## Rip-Tie Inc

800-348-7600; 415-543-0170

\*Rip-Tie Cable Management System

## Solutions Custom Furnishings

562-906-9000

\*CRESCENT/ARC Modular Furniture

\*Custom Consoles, Design, Fabrication & Installation

## Spacewise Furniture Inc

800-775-3660; 520-531-1090

\*VS-2000 Video Edit Suite

\*Studio Furniture

\*Spacewise Consoles

## Stantron

800-821-0019; 818-890-3445

\*Video Editing Consoles - Ergonomic, Economical

& Modular

Accessories - e.g., Shelves, Cooling, Drawers, Panels

\*Multimedia Editing Desks - Convenient Smart Design

\*Wall-Mount Cabinets - Convenient Smart Design

\*Sloping Front Cabinets in Modular Designs

\*Welded 19" & 24" Modular Vertical Cabinets

\*Seismic Cabinets - Cost-Efficient & Meet Belcore Zone 4 Reqs

## Studio Technology

610-640-1229

Studio Furniture

## Tally Display Corp

914-353-6300

Outdoor Display Signs

## Tamrac Inc

800-662-0717; 818-407-9500

2248 Subcompact Camcorder Case

2285 Field Monitor Case

2251 Carry-Dn Camera Case

## TECH-SA-PORT

800-543-2233; 412-661-1620

\*Cleaning Products for Electronic Equipment, Computer Systems

## TeleCast Group AS

+47 33 44 72 00

Sector/Secor Digital Broadcast Mixer

## Thermodyne International Ltd

909-923-9945

ATA 300 Style Transport Cases

## V-Soft Communications

800-743-3084; 319-266-8402

\*LRStudy - Longley Rice Analysis

\*SearchTV - Frequency Search Program

\*Probe - Expert Level Propagation Software

## VDP Inc

800-VIDCAD-6; 505-524-8959

VidCAD Facilities Design and Documentation Program

## Veetronix Inc

800-445-0007; 308-324-6661

Reed Pushbutton Switches

## Videomagnetics Inc

800-432-3887; 719-579-6643

Refurbished Video Heads & Scanners

## Wenger Corp

800-733-0393; 507-455-4100

V-Room Sound-isolating, Relocatable Broadcast Booth

## Winsted Corp

800-559-6691; 612-944-9050

\*LRx File Server Station

\*Digital Desk Multimedia Desk

\*F8203 DVCPRO Rack Slide Kit

## Tech Tip

### Standards Documents

•AES3-1992 (ANSI S4.40-1992). Transmission of two-channels periodically sampled uniformly quantized audio signals on a single twisted-pair cable. User and interface-related data may also be transmitted. This is a revision of the original 1985 document.

•AES-3id-1995. This information document (id) describes transmission of AES-3 formatted data over unbalanced coaxial cable.

•SMPTE 259M-1993 bit-serial 4:2:2 interface

•SMPTE 292M-1996 bit-serial 4:2:2 high-definition interface

Standards documents are available from:

Society of Motion Picture & Television Engineers\*

www.smpte.org

Audio Engineering Society\*

www.aes.org

\*Also see address section for more information

# THE BEST KEEPS GETTING BETTER

NEW PRODUCTS FROM OCONNOR  
MADE WITH PRIDE IN THE USA



ULTIMATE  
2060

This new mid-sized head, based on OConnor's Academy Award Winning Ultimate 2575 fluid head, is perfect for portable production video, lightweight studio video cameras with prompters, 16mm, super 16mm, and lightweight 35mm.

These new heads are full-featured, lightweight, and compact. Perfect for DVcam, DVCPro, and other smaller format 3-CCD camcorders.



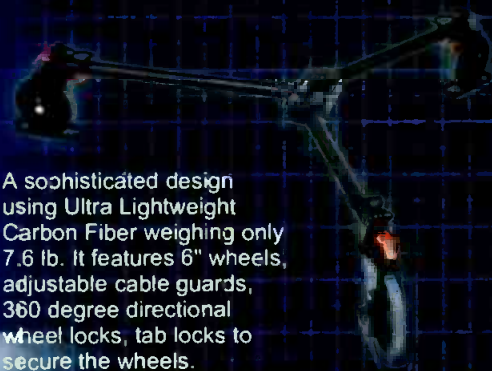
ULTIMATE  
DV

ULTIMATE  
DVS

## ULTIMATE 2060 FLUID HEAD

## ULTIMATE DV & DVS FLUID HEADS

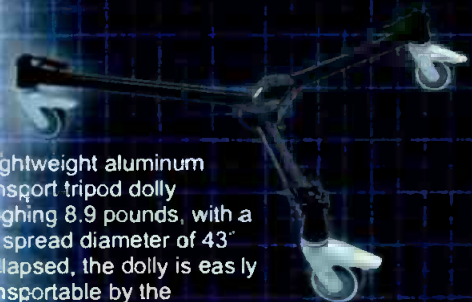
Let OConnor help you reach the Peak of your Creativity



A sophisticated design using Ultra Lightweight Carbon Fiber weighing only 7.6 lb. It features 6" wheels, adjustable cable guards, 360 degree directional wheel locks, tab locks to secure the wheels.

## 530 CARBON FIBER STUDIO DOLLY

The 530 and 53D both have a second position which allows them to pass through narrow 27" doorways. Both dollies also fold for storage and easy handling.



A lightweight aluminum transport tripod dolly weighing 8.9 pounds, with a full spread diameter of 43". Collapsed, the dolly is easily transportable by the comfortable built-in handle.

## 53D TRANSPORT DOLLY

CONTACT OCONNOR TO FIND OUT MORE ABOUT THESE NEW PRODUCTS, AND OCONNOR'S FULL LINE OF CAMERA SUPPORT EQUIPMENT

David Breashears, Robert Schauer and members of the Sherpa camera team set up the lightweight IMAX II camera on an OConnor 2575B fluid head over a crevasse in the Khumbu Icefall below Mount Everest in Nepal.

From the large format film EVEREST, a MacGillivray Freeman Film, presented by Polartec®

Photo © Araceli Segarra / MacGillivray Freeman Films.

# OConnor

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A division of Autocue, Inc.

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<http://www.ocon.com> e-mail: [sales@ocon.com](mailto:sales@ocon.com)

Circle (51) on Free Info Card

OConnor is proud to be the recipient of the Academy of Motion Picture Arts and Sciences Scientific and Technical Achievement "Oscar" for the design and concept of the Fluid Damped Camera Head.



AMPAS.®

# Product Directory



**LEITCH**

Featured Product:  
NEW! The Leitch 4010 is a high-performance, multi-format (SD) to the various HDTV formats.

Product Description:  
1. Leitch 4010 is a high-performance, multi-format (SD) to the various HDTV formats.  
2. Leitch 4010 is a high-performance, multi-format (SD) to the various HDTV formats.  
3. Leitch 4010 is a high-performance, multi-format (SD) to the various HDTV formats.

[www.leitch.com](http://www.leitch.com)

Leitch brings you HDTV Glue, a comprehensive family of products for your high-definition future. Leitch also offers numerous storage and clock system solutions.

**TBCs, Frame Syncs & Conversion Equipment**

Includes: Aspect ratio converters; Composite/component encoder/decoders; Frame synchronizers; HDTV up/downconverters; Scan converters; Standards converters; Time base correctors; Video A-D/D-A converters

### AJA Video

800-251-4224; 530-274-2048

**D10A** - Analog-to-Serial Converter, 10-bit RGB/YUV to 4:2:2

**D10C** - Serial-to-Analog Converter, 10 bit 4:2:2 to RGB/YUV

**D5D** - Decoder, NTSC/PAL to Serial 4:2:2

**C10SP** - Serial-to-Parallel Converter, Multiformat/Standard

**C10PS** - Parallel-to-Serial Converter, Multiformat/Standard

**NTV** - PCI Bus Serial Digital Framestore w/Software

**D5E** - Serial Encoder, 4:2:2 to NTSC/PAL

### AVerMedia Technologies Inc

800-863-2332; 510-770-9899

**AVerKey 300** PC/Mac-to-TV Converter

### Avitel Electronics Ltd

+44(0)1816 55-3200

**AR169** Converter, Continuous Zoom, V Blanking

**DSA 3341** Component Analog to SDI, SDI to Analog

### Axon Digital Design BV

+31(0)13511 6666

**AS-230/SA-230 & AS-210/SA-210** A/D-D/A Converters

\*ARC-2000 & ARC-200 Aspect-Ratio Converters

### BAL Broadcast Ltd

+44(0)1203-375827

Analog Distribution system

### Cobalt Digital Inc

800-474-7961; 602-706-1285

\*Cobalt 4010 Serial Digital-to-Analog Composite Converter

\*Cobalt 4030 Serial Digital-to-S-Video Converter

### Communications Specialties

888-4 FAX NOW; 516-273-0404

**ScanDo Ultra**

\*ScanDo Pro/D



### Digital Processing Systems DPS-470

### Digital Processing Systems/DPS

800-775-3314; 606-371-5533

**DPS-470** Serial Digital Synchronizer (See Photo)

Circle (236) on Free Info Card

**DPS-465** Serial Digital Synchronizer

Circle (182) on Free Info Card

### Ensemble Designs

530-478-1830

**TC400D** TBC Remote Control

Circle (420) on Free Info Card

**Carbon & Serial Box**

Circle (294) on Free Info Card

### Extron Electronics

800-633-9876; 714-491-1500

\*VSC 300, 300D, 200, 200D Scan Converters

\*EQ 100 4-Input Video Equalizer



### Faroudja Laboratories Inc

### Faroudja Laboratories Inc

408-735-1492

\*Digital-Format Translator 1000 - Interlace to 480p, 720p, 1080i

Circle (493) on Free Info Card  
**VS50** Chroma Decoder/TBC - Video/YC to YUV, RGB

Circle (193) on Free Info Card

\*Digital-Format Translator 3000 - Interlace to 480p, 720p, 1080i

Circle (492) on Free Info Card

Faroudja Laboratories Inc Dig. Format Translator 5000 - Interlace to 480p, 720p, 1080i (See Photo)

Circle (491) on Free Info Card



### Folsom Research 9700XL

### Folsom Research

916-859-2500

\*9700XL (See Photo)

Circle (181) on Free Info Card

\*VFC2200 Video Format Converter

Circle (351) on Free Info Card

\*VFC2100 Video Format Converter

Circle (350) on Free Info Card

### For-A Corp of America

714-894-3311

**FA-820/830** 10-bit Full Analog/Digital TBC/Frame Synchronizer

### Hotronic Inc

408-378-3883

**AP41** TBC/Frame Synchronizer Full Bandwidth Y/C & Composite I/O

\*AW61 DTV NTSC or Component Input Frame Sync.

**AR31** Low-Cost TBC/Frame Synchronizer

**AR71** - Dual-Channel TBC/Frame Synchronizer

\*AT61 Series 10-bit Frame Synchronizer

### Intelvideo Inc

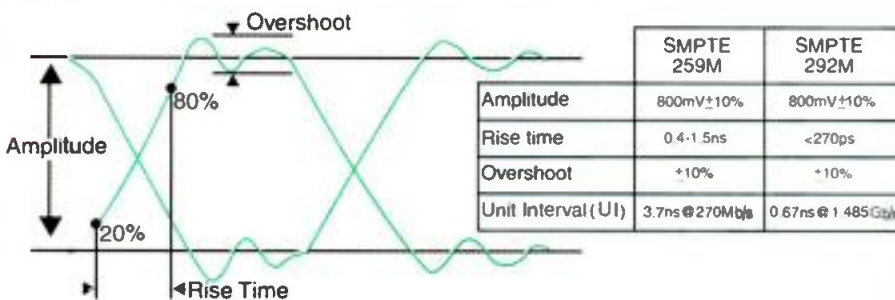
203-348-9229

\*VP3000C NTSC Analog-to-Serial Digital Converter

**SDI-1** Serial Digital-to-Analog NTSC Converter

## Tech Tip

### Eye-pattern specifications SMPTE 259M and SMPTE 292M



# DTV Interference

## The Problem

The advent of Digital Television Broadcasting (DTV) promises to generate new interference problems for the growing number of wireless microphone systems. DTV presents a particular challenge for frequency coordination due to the fact that RF energy is spread evenly across a 6 MHz channel.

## The Solution

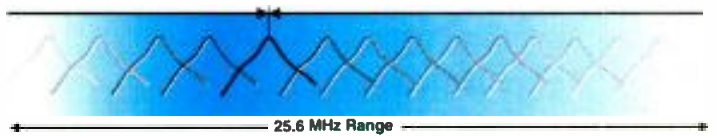
The 200 Series wireless system from Lectrosonics is the world's first wireless microphone system to use a Tracking Front-end to automatically follow 256 user selectable frequencies over a range of more than four U.S. TV channels. The front-end not only retunes as the frequency is selected, it also offers sharp selectivity and a high overload threshold to minimize intermodulation.



## The UCR 200D Wireless Microphone Receiver

The UCR 200D receiver combines the advanced technology of the Tracking Front-end, a host of professional features and studio quality audio in a compact package suitable for studio, stage or field production. It is a portable, high performance, dual-conversion, frequency synthesized UHF receiver. The proprietary audio processing includes a dual-band compandor for low distortion and a superior signal to noise ratio. Compare this wireless system to a hard-wired setup and join the rapidly growing host of professionals who have discovered the 200 Series.

HIGH-Q TRACKING FRONT END RETUNES TO TRACK SELECTED FREQUENCIES



## A look inside

The latest SMD components and extensive shielding provide outstanding RF performance, ruggedness and reliability.



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## LECTROSONICS, INC.

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(505) 892-4501 (800) 821-1121 Fax (505) 892-6243  
Web: <http://www.lectro.com> email: [sales@lectro.com](mailto:sales@lectro.com)

Circle (39) on Free Info Card

# Product Directory



**James Grunder & Associates Inc**  
800-331-2019; 913-492-4666  
\*A4:2:2SX Advanced SX Series



Leitch Inc Genesis

**Leitch Inc**

800-231-9673; 757-548-2300

\*Juno

Circle (364) on Free Info Card

\*Genesis Interface System (See Photo)

Circle (104) on Free Info Card

\*HDTV Glue

Circle (240) on Free Info Card

\*ENC-6801, DEC-6801

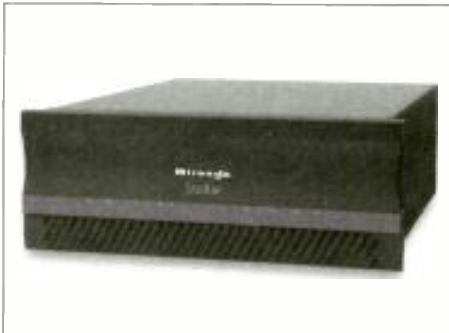
Circle (239) on Free Info Card

**Magni Systems**  
800-237-5964; 503-615-1900  
MagniCoder Pro

**MicroVideo Ltd**

+44(0)1223 834119

\*A/D-S10, A/D-S10K, A/D+KEY, D/A-S10,  
D/A-2S10, D/A-S10K



Miranda Technologies

**Miranda Technologies**

800-224-7882; 514-333-1772

Stellar Modular Series of Upconverters (See Photo)

Circle (237) on Free Info Card

ARC-371P

Circle (253) on Free Info Card

picoLink

Circle (220) on Free Info Card

**Nova Systems Inc**

860-693-0238

StudioFrame

**PANORAMAdv**

650-589-5676

\*SDI Aspect Ratio Converters w/Full Pan and Scan

\*High-Quality, Low-Cost Video Converters

**PC Video Conversion**

408-779-1280

\*ZoomConverterHD - HDTV Scan Converter

Circle (238) on Free Info Card

Hyperconverter - Scan Converter

Circle (132) on Free Info Card

VIDisplay - TV/VGA to LCD Converter

Circle (163) on Free Info Card

**Pixel Instruments Corp**

408-871-1975

\*VS-5200 Synchronizer/TBC w/SDI I/O

**Prager Associates**

310-474-8139

IBDM-S D1-to-Composite NTSC/PAL Encoder

IBDM-D Composite NTSC/PAL to D1 Decoder

**Prime Image Inc**

408-867-6519

\*10X-TR-D1 series

Pick 2

\*Video Monitor D/A Adapters

**RGB Spectrum**

510-814-7000

RGB/Videolink Video Scan Converters

**Ross Video Ltd**

613-652-4886

\*Ross Gear Encoders and Decoders

Circle (326) on Free Info Card

\*DVB-8020 Digital Video Buffer

Circle (330) on Free Info Card

**Sigma Electronics**

717-569-2681

TXN-2113 NTSC to Y, R-Y, B-Y Transcoder

\*DNC-2170 4:2:2 to Y, R-Y, B-Y Converter

**Snell & Wilcox**

+44(0)1730 821188

\*HD200 Compact Downconverter

Kudos IQ Modular Series

\*HD4000 HDTV Frame Synchronizer

Interpolator

\*HD5050 Upconverter

\*HD2100 Compact Downconverter

Alchemist Ph. C Motion-Compensated Standards

Converter

Maxim CVR500 10-bit Digital Standards

Converter

\*HD5100 Upconverter

**Sony Electronics**

800-635-SONY

\*HKPF-525 HDTV Downconverter

Circle (105) on Free Info Card



Tektronix Grass Valley MAX 9000

**Tektronix Inc Video & Network Division**

800-547-8949

Grass Valley MAX 9000 Digital Systemization Products (See Photo)

Circle (390) on Free Info Card

\*Grass Valley SMS8000 Digital Systemization Products

Circle (389) on Free Info Card

\*Grass Valley 8980TLS Tri-Level Sync Converter

Circle (391) on Free Info Card

**Television Equipment - Matthey**

914-763-8893

\*Matthey NTSC/PAL-to-Serial Decoder/Encoders

Circle (400) on Free Info Card

\*3000 Series Converter in All Composite & Component Standards

Circle (359) on Free Info Card

**Thomson Broadcast Systems**

+33 1 3420 7000

HDE5100

**TV One Multimedia Solutions**

800-721-4044; 606-282-7303

CORIOscan-Pro High-Performance Scan Converter

Delta Scan-Pro GL Gen-Lock Adapter

**VAS Group Inc**

818-843-4831

\*X-Box - Converts Between 1080i & 720p

\*HD-211rc HDTV Bidirectional Transcoder

RTC HD3:2 Downconverter

**Video Gainesville**

352-372-0270

MightyCoder D/A Converter

**Video International Development Corp**

888-243-5414; 516-243-5414

DTC 1600 Quattro Digital Standards Converter

DTC 4600MV Standards Converter

## Multiple Video Windowing Systems & PCI Cards



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- NTSC, PAL, SECAM Non-synchronous Video Source
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- Remote Access Control via Ethernet
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- Video Source ID and Label
- Windows 95 & NT 4.0 GUI

**Avitech International Corp.**

Voice: 425-885-3863 • Fax: 425-885-4726

Circle (40) on Free Info Card

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[broadcast\\_info@adc.com](mailto:broadcast_info@adc.com)  
TEL 724-941-1500  
FAX 724-941-4603

Circle (41) on Free Info Card

# Product Directory

## Videotek Inc

800-800-5719; 610-327-2292  
\*VDP Series Analog and 601 Video Synchronizers  
Circle (410) on Free Info Card  
\*VMA-10 and TAD-101 601-Composite and  
CAV-601 Converters  
Circle (411) on Free Info Card

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9001 certified.

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ment; Compression/MPEG test equipment;  
RF test equipment; Spectrum analyzers; Sync/  
test generators; Test equipment-general; TV  
aural modulation monitors; TV RF monitoring  
equipment; Video analyzers; Waveform  
monitors/vectorscopes

### Adherent

+44 1223 200700  
\*AT 970 ATSC Stream View Real-Time Monitoring  
Circle (215) on Free Info Card  
\*AD 953-II Stream Station II Real-Time and  
Offline Analysis  
Circle (476) on Free Info Card  
\*AD 991 Stream Source ATSC/DVB Looping  
Seamless Signal Source  
Circle (480) on Free Info Card  
\*QAM 980 DVB-C Cable Meter Handheld Field-  
Installation Tool  
Circle (482) on Free Info Card  
\*SV 970 DVB Stream View DVB Real-Time  
Broadcast Monitoring  
Circle (479) on Free Info Card  
\*AD 951-II Stream Player II ATSC/DVB Record,  
Play, Multiplex  
Circle (477) on Free Info Card  
\*AD 950 Stream Analysis ATSC/DVB Offline  
Analysis Tool  
Circle (478) on Free Info Card

**Altronic Research Inc**  
800-482-5623; 870-449-4093  
\*3500 Digital Calorimetry

**ASACA/ShibaSoku Corp of America**  
800-423-6347; 310-672-6765  
\*TG35AX Programmable Multiformat TV TSG  
\*TG15B6 HDTV Test Pattern Generator  
\*TG25A6 HDTV Test Pattern Generator

**Audio Precision**  
800-231-7350; 503-627-0832  
\*System One Dual Domain  
\*Portable One Dual Domain  
\*System Two Dual Domain

## Belar Electronics Lab Inc

610-687-5550  
TVM-230 BTSC monitor  
DSP-based Spectrum Analyzer  
TVM-250 SAP/PRO Monitor  
TVM 100/101  
Berkeley Nucleonics Corp (BNC)  
415-453-9955  
Model 625A Signal/Function Generator

### Broadcast Video Systems Ltd

905-764-1584  
VITS 2 Video Audio Analyzer  
Circle (284) on Free Info Card

## Burst Electronics Inc

505-898-1455  
SG-3 Color Bar Generator w/D  
Digital Transport Systems  
619-675-1410

\*DVB-Compliant Transport-Stream Analyzer  
\*ATSC-Compliant Transport-Stream Analyzer  
\*ATSC-Compliant Transport-Stream Multiplexer

## Dorough Electronics

818-998-2824  
\*Stereo Signal Test Set Model 1200

## DSC Labs

800-267-5227; 905-673-3211  
\*Amibi Illuminator, 16:9 and 4:3, Multisource  
Combi-1 and 2, Optical Signal Generators (OSGs)  
Combi-3, OSG Sine/Square Wave (Available  
Spring '99)

## ESE

310-322-2136  
ES-279A Black Burst Generator Family  
Circle (345) on Free Info Card

## Extron Electronics

800-633-9876; 714-491-1500  
VTG 200 Video Test Generator

## Gold Line Inc

203-938-2588  
Spectrum Analyzers  
Audio Test Sets

## Hamlet Video International Ltd

0500 625 525 (UK); +44(0)1494 793763  
Stereo Scope 503 - Analog/Digital Audio Bar  
Graph/Phase  
Digi Gen - High Quality Reference Generator  
PLM 1 - Composite Video/Audio Bar Graphs  
Level Indicator  
Video Scope 301 WVA - Component or Composite  
Wfm/Vect w/Audio  
Monitor Scope 601 - SDI & Analog Video/Audio  
Wfm/Vect, BGs  
LCD Scope - Component and Composite  
Wfm/Vect w/Audio  
Digital Window - Handheld SDI Analyzer,  
Composite Output  
Digiscope 601 - SDI & Analog Video/Audio  
Wfm/Vect, Bargraphs

## Holiday Industries Inc

612-934-4920  
Personal RF Monitors and Protective Clothing  
Circle (310) on Free Info Card  
HI-4000 RF EMF Measurement System  
Circle (293) on Free Info Card  
EMF Measurement Products  
Circle (151) on Free Info Card

## Horita Co Inc

949-489-0240  
TSG-50 NTSC Test Signal Generator  
Circle (218) on Free Info Card

## InnovaCom

408-727-2447  
DVExplorer  
Inovonics Inc  
800-733-0552; 831-458-0552  
TVU On-Screen Audio Level Meter

## Leader Instruments Corp

800-645-5104; 516-231-6900  
LE 1860 - CD/CO-ROM/DVO Jitter Meter  
\*LT 4250 - Digital Component Signal Generator  
w/Gen-lock  
\*LT 4400 - HDTV Signal Generator w/Gen-lock  
1080i, 1035i  
LG 3226 - 2GHz Synthesized Signal Generator  
LG 1311 - 10MHz Function Generator  
LF 827 - 1.3GHz Frequency Counter  
\*LV5150D - HD Digital/Analog Waveform Monitor  
1080i, 720p  
\*LV 51000E Digital/Analog Component  
Waveform Monitor

## Leitch Incorporated

800-231-9673; 757-548-2300  
\*HDTV Glue  
Circle (240) on Free Info Card  
\*STA-7000 Serial Digital Timing Analyzer  
Circle (125) on Free Info Card

## Logic Innovations

888-34-LOGIC; 619-455-7200  
\*DSTS-Capture & Playback Digital Transport  
Streams

## Magni Systems

800-237-5964; 503-615-1900  
\*SDI Automated Serial Digital Signal Monitor  
AVM-510 Automated Signal Monitor

## Modulation Sciences

800-826-2603; 732-302-3090  
msi 320 Precision Video Demodulator

## Multidyne Inc

800-4TV-TEST; 516-671-7278  
TS12-CARD, Modular NTSC Test Signal Generator  
Circle (438) on Free Info Card

## Nalpak Video Sales Inc

619-258-1200  
\*Test Charts HDTV-TC

## Neutrik AG

+41-75-237-2424  
MR-1 Pocket Audio Signal Generator  
A2-D Test System For Analog and AES-3 Signals

## NewTek

800-847-6111; 210-370-8000  
\*Callbar, Handheld Test Signal Generator

## NVISION Inc

800-719-1900; 530-265-1000  
\*4000 Series Modules

## Potomac Instruments

301-589-2662  
\*Field Strength Meters

## Prism Media Products Inc

908-747-7272  
DSA-1 Portable Analyzer  
DSCOPE-S

## AD-124

JM-1 Jitter Modulator

## Pro TeleVision Technologies

800-421-0888; 201-529-2188  
Digital Video Generator, PT 5230  
VariTime Digital Sync Generator, PT 5210  
\*Series of CRT Color Analyzers, PM 5639  
Digital SDI Monitor, PM 5664D  
Digital Video Analyzer, PT 5474





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[www.americanradiohistory.com](http://www.americanradiohistory.com)

# Product Directory

**Rohde & Schwarz GmbH Co KG**  
+49-89-41292931

\*DVG MPEG2 Measurement Generator  
\*DVMD MPEG2 Measurement Decoder

**Sencore**  
800-736-2673; 605-339-0100

Test & Measurement Equipment  
\*SV 953 MPEG-2 Stream Station  
\*AT951 ATSC Stream Player  
DVA320QC Analyzer

**Snell & Wilcox**  
+44(0)1730 821188

Kudos TPG 20 and 21 Sync/Test Generators  
\*Sentinel Standby Bitstream Inserter

**Survey Technologies**  
503-848-8500

Automated Signal Coverage Field Measurements

**SyntheSys Research**  
650-364-1853

\*BitAlyzer HDTV, Model HDVA292  
\*BitAlyzerVideo Model DVA184C

**Tektronix Inc./Measurement Bus**  
800-426-2200; 503-627-7111

\*MTS 100/200 MPEG Test System  
\*DDS200 Demod System  
\*PQA-200 Picture-Quality Analyzer  
\*MTG200 Test Generator

764 Digital Audio Monitor  
UPL Audio Analyzer

\*MTD200 Test Decoder  
\*WFM 601 Series Waveform Monitors/  
Vectorscopes

\*WFM 1125 Waveform Monitor/Vectorscope

**Tremetrics Industrial Instruments**  
512-251-1400

Frequency Difference Meters

**Trompeter Electronics Inc**  
800-982-2629; 818-707-2020

\*BNC Tester, P/N 010-0133

Circle (169) on Free Info Card

**Video Accessory Corp**  
800-821-0426; 303-443-4950

VB/BBG Black Burst Generator

Circle (357) on Free Info Card



Videotek VTM-200

**Videotek Inc**

800-800-5719; 610-327-2292

\*VSG Series for Analog and 601 Video Synchronizers

Circle (126) on Free Info Card  
DM Series Demodulators - Video and Stereo

Circle (407) on Free Info Card

\*VTM-200 including Pic, Wfm, Vec, Audio on SVGA (See Photo)

Circle (171) on Free Info Card

\*VTM Series of Traditional Tube-Based Scopes

Circle (412) on Free Info Card

**Ward-Beck Systems Ltd**  
800-771-2556; 416-438-6550

Bit Buddy/Bit Spitter

**Xyratex**  
+44 (0) 1705 486363

Fibre Channel Protocol Analyzer

**Z Technology, Inc.**  
503-614-9800

\*R-506 Field Strength Meter

\*R-507 Field Strength Meter w/ DTV

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**TV Transmitters, Translators, Exciters & Antennas**

Includes: Frequency conversion equipment; MMDS products; Remote control systems (transmitter); TV exciters; TV transmitters; TV transmitting antennas



Acrodyne Industries Gold Series

**Acrodyne Industries Inc**

800-523-2596; 215-542-7000

\*Adi Digital Transmitter/Studio Integration

Circle (338) on Free Info Card

\*AuD Gold Series UHF Transmitters (See Photo)

Circle (173) on Free Info Card

\*VHF and UHF TV Translators

Circle (339) on Free Info Card

\*Adjacent Channel Technology (ACT) UHF Transmitters

Circle (335) on Free Info Card

\*VHF and UHF TV Exciters

Circle (340) on Free Info Card

\*TRL/TRH Series VHF Transmitters

Circle (337) on Free Info Card

\*TRU Series Medium/Low Power UHF Transmitters

Circle (336) on Free Info Card



ADC Visionary

**ADC Broadcast Systems Division**

724-941-1500

\*Visionary Series - High-Power UHF IOT Transmitters (See Photo)

Circle (311) on Free Info Card

\*8770 MMDS Channel Combiners

Circle (315) on Free Info Card

\*800 Series - UHF Transmitters up to 10kW

Circle (231) on Free Info Card

\*5720 Analog/Digital MMDS Transmitters

Circle (314) on Free Info Card

\*6450A/6470A MMDS Broadband Transmitters and Boosters

Circle (316) on Free Info Card

\*5032 Digital Modulator - 8VSB, ATSC Compliant Exciter

Circle (312) on Free Info Card

\*Exciter Plus System UHF/VHF Exciter Retrofits

Circle (313) on Free Info Card

**Advanced Broadcast Systems Inc**

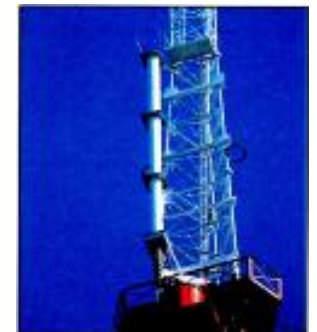
800-499-4554; 606-689-0075

\*BEST Series IOT Transmitters

Circle (233) on Free Info Card

\*CST-II Series IOT Transmitters

Circle (201) on Free Info Card



**Andrew Corp TRASAR Slotted Antennas**

**Andrew Corp**

800-DIAL-4-RF; 708-349-3300

Andrew Corp TRASAR Slotted Antennas, Dual Channel & ALP (See Photo)

Circle (458) on Free Info Card

\*PANAR Panel Antenna

Circle (234) on Free Info Card

**Antenna Concepts Inc**

530-621-2015

\*Low Power Line: HPOL & CP Slot/Blaster

\*Spanner High-Power Panel (Dual-Mode)

\*Champion Medium-High Power Traveling Wave Slot

**Armstrong Transmitter**

315-673-1269

\*UHF TV Transmitter UHF 1000S/T

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See What You Think.

Circle (21) on Free Info Card

# Product Directory

## Comark Communications Inc

413-569-0116  
 \*ULTIMATE UHF LDMDS NTSC/DTV w/DAP for All Powers  
 \*CIDX UHF IDT NTSC for All Powers  
 \*DCX UHF IDT DTV w/DAP for All Powers  
 \*Optimal VHF MOSFET NTSC/DTV w/DAP for All Powers  
 \*Advantage UHF IDT DTV w/DAP for All Powers

## COMWAVE

800-COM-WAVE; 717-474-6751  
 \*Digital/Analog Transmitters, Repeaters and Boosters

## Conifer Corp

800-843-5419; 319-752-3607  
 Two-Way Transverters  
 Integrated Receivers

## Continental Electronics Corp

800-733-5011; 214-381-7161  
 \*715D Digital TV Transmitter  
 Circle (217) on Free Info Card

## Davicom Technologies Ltd

877-328-4266; 609-653-1065  
 Antennas for Low & Medium Power TV  
 \*M-A-C Monitoring-Alarm-Control System

## DB Elettronica Telecomunicazioni SpA

+39-49-8700588  
 APD +18 - High-Gain Antenna  
 1KBU 100, 1kW Solid-State Low-Power Transmitter

## Dielectric Communications

800-341-9678; 207-655-4555  
 \*Dual-Channel Antennas  
 \*Stacked Antennas  
 \*Antennas

## Electronic Associates

915-595-3103  
 \*RF-Director  
 \*RF-Manager  
 \*Pocket Monitor  
 \*RF Host  
 \*DataLine Remote Control w/Voice Activation

## Elettronica Industriale Spa

+39 39 7398 369  
 Linea Stone

## EMCEE Broadcast Products

800-233-6193; 717-443-9575  
 \*Digacom series for MMDS  
 \*TTU250HD Low-Power Digital Transmitter or Driver  
 \*TTU2500HD UHF Digital Transmitter w/Harris Exciter  
 \*TTV250HD VHF Solid-State Digital Transmitter

## Gentner Communications Corp

800-945-7730; 801-975-7200  
 \*GSC3000 Control System  
 Circle (150) on Free Info Card



Harris Diamond CD Solid-State

## Harris Corporation Broadcast Systems Division

513-459-3400  
 \*Diamond CD Solid-State Series (See Photo)

Circle (229) on Free Info Card  
 \*Platinum CD Series

Circle (172) on Free Info Card  
 \*CD 1A 8-VSB DTV Exciter

Circle (130) on Free Info Card  
 \*SIGMA CD Series

Circle (145) on Free Info Card

## Inscriber Technology

800-363-3400; 519-570-9111  
 LIVE Shotbox

## ITELCO USA Inc

303-464-8000  
 \*8-VSB Model T610N 1Wrms DTV Exciter  
 \*IDT UHF Series 10kWrms to 100kWrms  
 \*Solid-State VHF/UHF Series 400Wrms to 30kWrms

## Jampro Antennas Inc

916-383-1177  
 \*Stacked Aperture Antenna  
 Circle (149) on Free Info Card  
 \*JUHD TV UHF Broadband Panel Antenna  
 Circle (235) on Free Info Card  
 \*JTW UHF Traveling Wave Slot  
 Circle (148) on Free Info Card

## Ktech Telecom Inc

818-361-2248  
 \*VSB-ENC-200 8-VSB Demod-Remodulator  
 \*VSB-ENC-100B 8-VSB Modulator

## Larcan Inc

905-564-9222  
 \*HDR Series UHF Transmitters  
 \*XLS Series UHF/VHF Transmitters  
 \*Landmark Series UHF Transmitters  
 \*M Series VHF Transmitters  
 \*MX Series UHF/VHF Transmitters

## LeBLANC Broadcast

972-664-1817  
 Landmark

## M&C Systems Inc

972-422-5524  
 \*Presence Monitor and Control System

## Micro Communications

800-545-0608; 603-624-4351  
 \*Series 41900 DOUBAND Coupler Combines UHF & VHF  
 \*Series 49200 DTV Mask Filter - High Power

## NEC America Inc Broadcast Equipment Department

888-383-4DTV; 972-751-7246  
 \*DTU/DTV Series Solid-State DTV Transmitters

## NWL

800-PICKNWL; 609-298-7300  
 High Voltage Power Supplies

## Quintech Electronics and Communications Inc (QEC)

800-839-3658; 724-349-1412  
 Frequency Conversion Equipment

## RFS Broadcast (Cablewave)

203-239-3311  
 \*DTV/NTSC Antennas  
 \*TV Antennas

## Rohde & Schwarz GmbH Co KG

+49-89-41292931  
 \*NV500 DVB-T Transmitter Family

## Scala Electronic Corp

541-779-6500  
 \*5kW Broadband UHF Panel Antenna  
 \*Broadband UHF Panel Antennas  
 \*Single Channel UHF Panel Antennas

## Shively Labs

888 SHIVELY; 207-647-3327  
 \*NTSC/DTV Antennas  
 \*Series 2000 Transmit Antenna

## Standard Communications Corp

310-532-5300  
 DSG2000BD BTSC Stereo Encoder

## Superior Broadcast Products

800-279-3326; 972-473-2577  
 UHF Transmitters, Power Levels from 500W to 5kW

## Technosystem SPA

+39 06 225871  
 \*MMDS/LMDS DVB 28/42GHZ  
 \*VHF/UHF Solid-State/IDT DVB-T Transmitters



Thomcast M2W Transmitter

## Thomcast

+33 1 3490-3100  
 MMDS Transmitters  
 Circle (202) on Free Info Card  
 M2W Transmitter (See Photo)

## Vehicles & Remote Equipment

Includes: ENG trucks; Portable masts; Satellite flyaway systems; Satellite uplink trucks

## Advent Communications Ltd

+44 1494 774400  
 \*4x4, 3.5T to 17T Vehicles  
 \*C, KU, DBS, KA Band & Multiband Systems

## Allen Osborne Associates

805-495-8420  
 \*Hilomast  
 Circle (195) on Free Info Card  
 \*NK.9 Telescopic Pneumatic Mast  
 Circle (419) on Free Info Card

## Alpha Video & Electronics Co

412-429-2000  
 \*ENG & DSNG Trucks

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<http://www.thomcast.thomson-csf.com>

[www.americanradiohistory.com](http://www.americanradiohistory.com)

# Product Directory

## BAF Communications Corp

800-633-8223; 407-324-8250  
\*Navigator FSU 1.5  
\*Complete Line of Custom ENG, EFP and SNV Vehicles  
\*Navigator

## Beck Associates Inc

888-422-8600; 512-252-7555  
\*Trucks/Mobile Units

## Calumet Coach Co

708-868-5070  
\*Satellite Uplink Trucks  
\*Satellite Flyaway Systems  
\*ENG Trucks

## Comtech Antenna Systems Inc

407-892-6111  
Satellite Flyaway Systems

## Custom Mobile Products

888-452-3797; 440-779-2740  
Remote Vehicles  
SNG Remote Vehicles  
Production Remote Vehicles

## Frontline Communications

727-573-0400  
Satellite Uplink Trucks  
EFP Trucks  
ENG & DSNG Vehicles

## LandSea Systems Inc

757-468-0448  
LSS-94429 Ruggedized Solsat Phone  
TT-3060A Millenium Phone

## Mobile International Co Inc.

918-485-5151  
\*Satellite Uplink Trucks  
\*ENG/EFP Vehicles  
\*Portable Masts

## Shook Electronics USA Inc

888-651-5775; 210-651-5700  
\*AS-11 DSNG: Aerodynamic, Easy-to-Operate Uplink Truck  
\*A-11 ENG: Self-Contained, Turnkey or Rack-Ready ENG Truck

## Television Engineering Corp

573-860-4700  
\*Satellite Uplink Trucks  
ENG Trucks

## Wegener Communications Inc

800-848-9467; 770-814-4000  
\*OVT2000 Flyaway - MPEG-2 Encoder/Modulator Uplink System

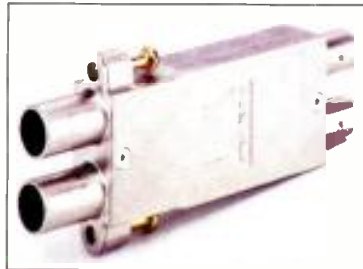
**Circle (505) on Free Info Card**

## Will-Burt

330-682-7015  
Masts

## Video Accessories

*Includes: EAS Products; GPS equipment; Timecode equipment; VBI data software systems; Video accessories; Video captioning equipment; Video patch panels*



ADC SVJ-2 Super Video Jack

## ADC Telecommunications Inc

800-726-4266  
\*STS Series True 75ohm Patch Cords  
**Circle (423) on Free Info Card**  
ADC SVJ-2 Super Video Jack (See Photo)  
**Circle (260) on Free Info Card**  
\*MVJ-3 Midsized Super Video Jack  
**Circle (422) on Free Info Card**

## Adrienne Electronics Corp

702-896-1858  
\*PC-VLTC Time Code Boards for PCs  
Audio Accessories Inc  
603-446-3335  
Line of Patch Panels

## Broadcast Software Solutions

800-273-4033; 561-776-8462  
\*V-Chip and Automation Control Modules

## Broadcast Video Systems Ltd

905-764-1584  
VBI 10 Vertical Blanking Interval Bridge  
**Circle (283) on Free Info Card**

## CANARE

818-365-2446  
\*SMPTE 259M/292M-Ready Patch Panels

## Cavena Image Products AB

+46-8-4730515  
\*Subtitling Hardware and Software

## Clark Wire & Cable

800-222-5348; 847-949-9944  
Line of Patch Panels

## Cobalt Digital Inc

800-474-7961; 602-706-1285  
\*Cobalt 4020 Serial D/A Component Converter

## CPC/Computer Prompting & Captioning Co

800-977-6678; 301-738-8487  
Simultaneous Teleprompting/Captioning System  
V-Chip Code Insertion Software  
Stand-Alone Post-Production Closed-Captioning

## Davicom Technologies Ltd

877-328-4266; 609-653-1065  
\*DSRD-01 Digital Satellite Receiver Fault Detector

## EEG Enterprises Inc

516-293-7472  
DE241A Family of Decoders  
\*EN-470 Smart Encoder  
XDS Xpress (V-Chip) System

## ESE

310-322-2136  
ES-101, -102, -185A GPS Master Clocks/TCG  
**Circle (252) on Free Info Card**  
ES-488 SMPTE TC Generator, Reader, Inserter  
**Circle (346) on Free Info Card**

## Evertz Microsystems Ltd

905-335-3700  
\*Closed-Caption Equipment (8074 SD, 9570 HDTV)  
\*HD9590 HD Graticule Generator  
9590 Digital Graticule Generator  
Time-Code Equipment

## Horita Co Inc

949-489-0240  
GPS1,2,3 GPS-based SMPTE Time-Code Generators

**Circle (465) on Free Info Card**  
VLR-100 LTC Generator, VITC/LTC Reader w/LED Display

**Circle (466) on Free Info Card**

PG-2100 Portable Mini Time-Code Generator

**Circle (467) on Free Info Card**  
GPS1,2,3 GPS-Based SMPTE Time-Code Generators

**Circle (465) on Free Info Card**

## Image Logic Corp

301-907-8891  
Log Producer Videotape Logging Systems  
AUTOCAPTION Desktop Captioning Systems  
Time-Code Reader/Generator Cards for PCs

## Imagine Products Inc

317-843-0706  
Portable LTC Readers

## Kings Electronics Co Inc

914-793-5000  
7400-5,-7 Miniature Video Jacks

## Lemo USA

800-444-5366; 707-578-8811  
Connectors and Patch Panels

## M&C Systems Inc

972-422-5524  
\*Presence Monitor and Control System  
Media Computing Inc  
602-582-2600  
\*ROCI - Remote Operations Control Interface

## MilesTek Inc

800-524-7444; 940-484-9400  
\*50-11036 2x24 Digital Video Panel

## Norpak Corp

613-592-4164  
VBInet Internet/Data Broadcast System  
\*TV (VBI) Captioning Encoders  
\*TES5 Serial Digital Video VBI Inserter

## Peerless Industries Inc

800-729-0307; 708-865-8870  
\*TV/Monitor Mounts & Accessories

## Prime Image Inc

408-867-6519  
Twister  
Rip-Tie Inc  
800-348-7600; 415-543-0170  
\*Rip-Tie Cable Management System

## Ross Video Ltd

613-652-4886  
RossGear Terminal Equipment (EAS-7531/  
EAS-7560)

**Circle (333) on Free Info Card**

## Shootview Digital Ltd

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VIP8000 SDI Keyer



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- Seamless Switching
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# Product Directory

**Sierra Design Labs**  
702-831-7837

\*Sierra Control Panel

**Switchcraft Inc**  
773-792-2700

\*Line of Video Patch Panels

**Techflex Inc**

800-323-5140; 973-729-6253

\*Expandable Cable Covering

**Trompeter Electronics Inc**

800-982-2629; 818-707-2020

\*J214W/J214WT Wideband Patch Jack

**Circle (277) on Free Info Card**

\*Patch Panels, Jacks, Cords & Connectors

**Circle (170) on Free Info Card**

**Video Accessory Corp**

800-821-0426; 303-443-4950

**Brick Series**

**Circle (278) on Free Info Card**

**Video Data Systems**

800-858-5850; 516-231-4400

System 840 EAS Dverlay System

NDS Papers Presented At IBC In September Are Now Available Online [Click Here!](#)

www.ndsworld.com

NDS is a global leader in the design, production, and integration of MPEG-2, DVB, and ATSC. We specialize in systems for small, medium, and large broadcasters.

## Video Compression Equipment

*Includes: Compression encoder/decoders; Compression pre-processors; MPEG bitstream splicers; Statistical multiplexers; Video compression systems; Video noise reduction systems*

**BARCO**

770-590-3600

\*RE 4221 DSNG Encoder/Modulator

\*RE 4220 MPEG-2 Decoder for HD/DTV

**Computer Modules, Inc.**

408-496-1881

\*MPEG Shuttle Series M-PEG Transmission/Receiving

**Digital Vision (DV Sweden AB)**

+46 8 182465

\*DVNR High-Definition Image Processing System

\*BitLink - HD HDTV Program Encoder/Decoder

\*BitPack - MPEG2 Authoring Workstation

**Divicom**

408-490-6560

\*MediaNode MN20 Remultiplexer

\*MediaView MV15 Program Encoder

\*ProView PV1200 Commercial IRD

\*MediaView MV40 Program Encoder

**Harris Corporation Broadcast Systems Division**

513-459-3400

\*Flexicoder

**Circle (222) on Free Info Card**

**InnovaCom**

408-727-2447

DV2100 MPEG-2 Encoder Board

TRANSPG Point-to-Point T1/E1/ATM/100BaseT

**Intelvideo Inc**

203-348-9229

\*VP3000 Precompression Processor

**James Grunder & Associates Inc**

800-331-2019; 913-492-4666

QS-440 Quad-Split Multi-Image Display

w/Independent Resizing

\*E4:2SX Effect SX Advanced Scaling Engine

**Leitch Inc**

800-231-9673; 757-548-2300

\*MPEG-2 Compression System

**Circle (179) on Free Info Card**

\*Noise-Reduction Module

**Circle (180) on Free Info Card**

**LEL Computer Systems**

561-347-2242

Video Pipeline/CC

Video Pipeline

Video Pipeline-2 MPEG-2 System

**LNR Communications Inc**

888-LNR-7858; 516-273-7111

Digital Video Exciter

**Microwave Radio Communications**

800-490-5700; 978-250-1110

\*MediaMux

**Circle (366) on Free Info Card**

**Minerva Systems Inc**

800-806-9594; 650-940-1383

Minerva Publisher MPEG Encoder

Minerva Compressionist MPEG Encoder



NDS 5000 Encoding/Decoding System

**NDS Americas Inc**

949-725-2500

\*MPEG Encoders, Commercial/Professional Receivers

**Circle (209) on Free Info Card**

\*Reflex Stat-Mux

**Circle (210) on Free Info Card**

\*Series 5000 Encoding/Decoding System (See Photo)

**Circle (287) on Free Info Card**

\*Seamless MPEG Splicing

**Circle (268) on Free Info Card**

**NEC America Inc Broadcast Equipment Department**

888-383-4DTV; 972-751-7246

\*VC-310 Series HDTV Encoders/Decoders

**Philips Digital Video Systems**

800-962-4287; 801-977-1611

\*DVS 3112 MPEG-2 Digital Video Encoder

**Circle (418) on Free Info Card**

\*VS-4 Video Sweetener

**Circle (128) on Free Info Card**

\*Compression System Manager (CSM)

**Circle (375) on Free Info Card**

**Scientific-Atlanta**

770-903-6057

PowerVu MPEG-2/DVB system

**Snell & Wilcox**

+44(0)1730 821188

\*MOLE Technology

**Tadiran Scopus**

+972 3 557 6200

CODICO MPEG-2/DVB System

RTM-3600, Statistical Multiplexer/Re-Multiplexer

E-110, Modular Encoder

IRD-2510, Professional Integrated Receiver Decoder

E-1100, Advanced High-End Encoder

IRD-2500, Commercial Integrated Receiver Decoder

E-1000, Professional High-Quality Encoder

**Tektronix Inc Video & Network Division**

800-547-8949

\*MH-1100DL Mitsubishi HDTV Decoder

**Circle (502) on Free Info Card**

\*PSIP - ATSC Data Insertion System

**Circle (504) on Free Info Card**

\*MH-1100EL Mitsubishi HDTV Encoder

**Circle (503) on Free Info Card**

**Thomson Broadcast Systems**

+33 1 3420 7000

MPEG-2 Encoder/Decoders

DBE 4120 MPEG Encoder

ATM Multimedia Encoder

**Tiernan Communications**

619-587-0252

\*TDR600 4:2:2 MPEG-2 Integrated Receiver/Decoder

\*TE60 MPEG-2 Encoder

\*THE1 HDTV/SDTV Encoder

\*THE 10 HDTV/ATSC Broadcast Encoder

\*TDR77 4:2:0 MPEG-2 Integrated Receiver/Decoder

\*TDR6 SDTV/HDTV Receiver/Decoder

\*TE600 MPEG-2 DSNG Encoder

**TV/Com International**

619-618-3500

Domain Management Systems - Open Digital Platform

**Vela**

813-572-1230

\*Cineview Pro - MPEG-2 Decoder

\*Broadcast Argus - MPEG-2 Encoder

**Vibrant Technologies**

781-275-4088

\*Mpression MPEG 4:2:2 Encoding Server

**Video International Development Corp**

888-243-5414; 516-243-5414

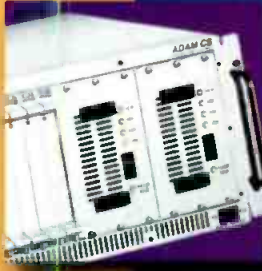
MNR 340

**Viewgraphics**

650-903-4900

\*MediaSplice



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# Product Directory



**VisionTech Ltd**  
888-769-7163; + 972 3 3512822  
\*MPEG-2 PCI Board  
\*MPEG-2 Mvision 10 PCI Encoder  
\*MPEG-2 Encoder



Wegener Unity 4000 Receiver

**Wegener Communications Inc**  
800-848-9467; 770-814-4000  
\*DVT2000, 2001 - MPEG-2 Encoder/Modulator  
Circle (508) on Free Info Card  
\*DVE-2000 MPEG-2 Encoder w/Multiple Audio  
Circle (176) on Free Info Card  
\*DVM-2000 Multiplexer - 10-Channel Video Transport Mux  
Circle (177) on Free Info Card  
\*DV-2000 MPEG-2 Encoder  
Circle (270) on Free Info Card  
\*UNITY4000 Receiver - DVB Compliant MPEG-2 Satellite Receiver (See Photo)  
Circle (509) on Free Info Card

**DPS**  
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DPS products are used by television broadcasters, video production facilities, post-production studios and independent video producers for creating, editing and processing broadcast-quality video and audio material.

**Video Editing Systems**

Includes: Editing systems and components; Nonlinear editors

**Accom Inc**  
650-328-3818  
\*Axial 3000

**Avid Technology Inc**  
800-949-AVID; 978-640-6789  
\*Media Composer 9000  
\*Symphony  
Xpress Version 2.0

**BUF Technology**  
619-451-1350  
\*VTR Controllers

**Digital Processing Systems/DPS**  
800-775-3314; 606-371-5533  
DPS Spark Plus DV Editing System  
Circle (349) on Free Info Card  
DPS Perception RT3DX Real-time Editor w/3D Effects

Circle (348) on Free Info Card  
DPS Perception Nonlinear Editor  
Circle (160) on Free Info Card

**Dubner International Inc**  
201-447-9365  
SCENE STEALER - Automatic Scene Detector and Video Logger

**Editing Technologies Corp**  
818-840-1101  
\*Ensemble Pro - Professional Editing Package  
\*Ensemble Gold - Nonlinear/Multilinear Editing Systems  
\*ClipCutter - News-Style Nonlinear Editing Systems

**Editware**  
530-477-4300  
\*Super Edit Version 8 Software  
Profile NLE Nonlinear Software  
\*VPE 331, 341, 351 Edit Controllers

**Incite Multimedia Corp**  
+41 22 308 57 57  
Incite - Rack-Mount Version  
Incite - Sports/News Network Version  
Incite Editors

**JVC Professional Products Co**  
800-JVC-5825; 973-315-5000  
TimeGate MW-S1000 Hybrid 4:2:2 Nonlinear System

**Media 100**  
508-460-1600  
\*Media 100 - Affordable, Broadcast-Quality Nonlinear Editor  
\*FINISH - High-Performance DV Processing  
QX - Affordable, Professional-Quality Nonlinear System

**Miles**  
+44-1635-552-524  
\*M57 Safe Area Inserter

**Mina Systems**  
800-483-6462; 817-377-4777  
Mina RT (Complete NLE)

**NEXUS Informatics GmbH**  
+49-891-981550  
OpenMedia - Browsing and Editing at Journalist Workstations

**Panasonic Broadcast & Digital Systems Co**  
800-528-8601; 323-436-3500  
DVEDIT DVCPRO-Based Nonlinear Editing System  
newsBYTE 4x Transfer DVCPRO Nonlinear System  
POSTBOX 4.0 Digital Nonlinear Editing System  
AJ-LT75 All-in-One DVCPRO Laptop Editor

**Pinnacle Systems**  
650-526-1600  
ReelTime Nitro - Real-Time Online Editing w/3D Effects

Circle (443) on Free Info Card  
MiroVideo DC50 - Affordable Component Video Editing Solution  
Circle (289) on Free Info Card

**Pixel Power Ltd**  
+44(0)1223-721000  
\*Collage Edit Non-compressed D1 Editor

**Play Incorporated**  
800-306-PLAY; 916-851-0800  
Trinity 1.1



Quantel Editbox

**Quantel Inc**  
800-218-0051; 203-656-3100  
Platinum Nonlinear Online Editor (See Photo)  
Circle (297) on Free Info Card  
\*EditBox Magnum Nonlinear Online Editor  
Circle (288) on Free Info Card

**Scitex Digital Video**  
888-846-7017; 650-369-5111  
VideoSphere Nonlinear Editor  
Circle (453) on Free Info Card  
StrataSphere Nonlinear Editor  
Circle (452) on Free Info Card

**Sony Electronics**  
800-635-SONY  
DNE-700/1000 Series of Nonlinear Editing Systems

Circle (121) on Free Info Card  
**Tektronix Inc Video & Network Division**  
800-547-8949  
\*EditStar Nonlinear News Editor  
Circle (396) on Free Info Card

**United Media Inc**  
714-777-4510  
On-Line Express  
\*On-Line Express Real-Time NLE for Window NT  
\*On-Line Express LE Software for DigiSuite LE

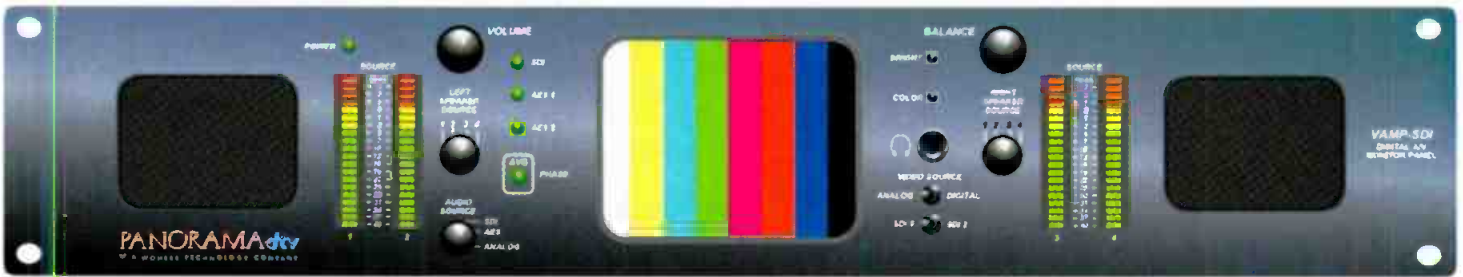
**Vibrant Technologies**  
781-275-4088  
\*Mpression News Edit

**Videomedia Inc**  
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\*V-LAN intertaces

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BE's Classified  
Section.

www.broadcastengineering.com



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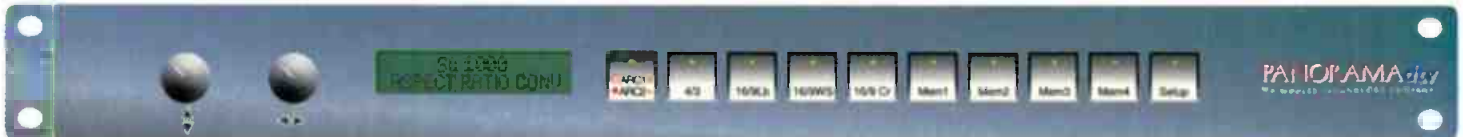
Available in Analog and/or SDI Digital



**Television Broadcast**  
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**Monitor Both Video and Audio from either Digital Or Analog Sources in 2U.**

SDI input for video and embedded audio, with auxiliary AES and analog audio inputs. Confidence monitoring with built-in LCD screen, and composite video output for use with larger external video monitors. Ideal for all situations in video facilities needing confidence-level video monitoring where operator-convenient rackspace is at a premium.



**SQ-1000 Aspect Ratio Converter**

**Compress or expand SDI video horizontally and vertically (Pan & Scan) by any amount and with very high quality results.**

All aspect ratios are available and all common ratios have presets. NTSC and PAL output for monitoring. Audio delay and tracking timecode delay. Four user memories and two assignable GPI inputs. Local or remote control.

*All aspect ratios are available. For example:*

Full frame 4:3	TO/FROM	1.85:1 Anamorphic
Letterbox 14:9		16:9 Anamorphic
Letterbox 15:9		15:9 Letterbox
Letterbox 16:9		14:9 Letterbox
Letterbox 2.35:1		Full frame 4:3



**ATSC Audio Monitor**

Available in Analog, AES and Encoded ATSC



**Select between and monitor up to six channels of Digital or Analog audio in only 2U.**  
The ATSC audio monitoring series was designed specifically for comprehensive monitoring of the six audio channels associated with ATSC programming. Three input types are available: Analog, AES/EBU, or Encoded ATSC. Select any channel or pair of channels for listening. Simultaneous visual monitoring via high resolution LED bargraphs.

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ANALOG, DIGITAL, AND THAT  
TERRIFYING PLACE IN BETWEEN.**

Ready for Digital Broadcasting? We are. In fact, as a charter member of the Associated Television Standards Committee, we're helping to create the standards for the Digital Broadcasting Era.

We introduced the PanoramaDTV VAMP series, the SQ-1000, and the Wohler ATSC monitor at NAB98. And we walked away with a total of three awards, right out of the box. But the only way you can tell whether these units are right for your application and budget is to demo them. Preferably right next to their higher-priced competitors.



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Our PanoramaDTV line was designed specifically to offer the most compatible equipment you can buy. In fact, many Wohler and PanoramaDTV units give you the option of switching between analog and digital formats effortlessly. In other words, the equipment you specify today won't have to be thrown out once you're fully digital.

Call us at (888)5-WOHLER. And relax. We'll prove that your fears of moving to digital are, frankly, just plain irrational.



www.panoramadt.com

Circle (53) on Free Info Card

# Product Directory

## Video Monitors, Projectors & Accessories

Includes: CRT projectors; DLP projectors; Event controllers; Light valve projectors; Line doublers/quadruplers; Plasma displays; Video monitor parts and accessories; Video monitors; Video presentation equipment

### AAVS

+33 1 49 88 34 34  
\*Kaleido

### AMX Corporation

800-222-0193; 972-644-3048  
Event Controllers

### ASACA/ShibaSoku Corp of America

800-423-6347; 310-672-6765  
\*MS32 32" New Media Suite Series HDTV Monitor  
\*CM202H 20" New Media Suite Series HDTV Monitor

### BARCO

770-590-3600  
\*HDM 5049 17" High-Definition Monitor

### Boeckeler Instruments

800-552-2262; 520-745-0001  
Pointmaker PVI-64 Videomarker

### Boland Communications

800-918-9090; 949-367-9911  
LCD Color Triples (3x5) and (3x6.4)  
LCD Color 8.4" up to 20.1"  
LCD Color Sizes 1.8" to 10.4"  
LCD Color #1550 Quad (4x4)

### Clarity Visual Systems

503-570-0700  
\*WN-5240-S DLP Rear-projection SVGA  
\*SN-4010-P Plasma Display

### Communications Specialties

888-4 FAX NOW; 516-273-0404  
Duece

### Da-Lite Screen Company Inc

800-622-3737; 219-267-8101  
\*Tensioned Dual-Masking Electronic Wall/Ceiling Screen  
\*Tensioned Cosmopolitan Wall/Ceiling Screen  
\*Image-Fixed Wall Screen

### Davis North America

888-798-9998; 408-487-3787  
DPP 1200 - Tabletop, Superbright XGA  
DPS 60 - 60" Rear Screen Projection w/Touchscreen

DLX 650 - Ultraportable XGA, 700 Lumens

### Digital Projection Inc

770-420-1350  
\*POWER 5gv 5000 ANSI Lumen Projector  
\*POWER 7gv 6500 ANSI Lumen Projector  
\*POWER 3gv 3000 ANSI Lumen Projector

### E-Z UP International, Inc.

800-45-SHADE; 909-781-0843  
E-Z UP Instant Monitor Stand

### Electrosonic Systems Inc

800-328-6202; 612-931-7500  
Vector: High-Performance Image-Control Processor  
ProDigital: Stackable Projection Cubes

### Faroudja Laboratories Inc

408-735-1492  
PV400 Video/PC Scalar - Interlaced to 960p  
Circle (192) on Free Info Card

### Fujitsu General America Inc

888-888-3424; 973-575-0380  
Plasmavision 42

### Hoodman Corp

310-379-6391  
H789S

### Hughes JVC Technology

800-225-4582; 760-929-5300  
\*Model D360 ILA Projector  
\*Model D370SC ILA Projector  
\*ILA-12K 12,000 lumen ILA projector

### Image Video

416-750-8872  
\*RDU1500 Under Monitor Tally Display

### James Grunder & Associates Inc

800-331-2019; 913-492-4666  
\*PV-5000 Flat Panel Driver Board  
LD-2000 Line Doubler  
\*KS-42 - Feral 42" PDP w/PV-5000 Built In

### Leightronix

517-694-8000  
MVP-2000

### Marshall Electronics Inc

800-800-6608; 310-390-6608  
Color or B&W Video LCD Monitors

### Miranda Technologies

800-224-7882; 514-333-1772  
Quartz Line Quadrupler  
Circle (194) on Free Info Card

### PANORAMAdtv

650-589-5676  
\*VAMP-SDI 2RU Audio/Video Monitor

### PC Video Conversion

408-779-1280  
QuadScan - Line Quadrupler/Scaler

Circle (285) on Free Info Card

DoubleScan - Line Doubler

Circle (494) on Free Info Card

### Progressive Marketing Products Inc.

800-368-9700; 714-528-2072  
\*Video Projector, Plasma Mounts

### RGB Spectrum

510-814-7000  
VLI 200 Video Scaler  
SuperView Video Windowing System

### Sony Electronics

800-635-SONY  
\*BVM G-series of High-Definition Evaluation Monitors

Circle (110) on Free Info Card

\*PFM-500A1WU 42" Flat-Panel Plasma Display

Circle (119) on Free Info Card

### Tally Display Corp

914-353-6300  
\*SL Model Slimline Display  
\*IDN System - Interactive Display Network

### Transvideo SA

+33 23232 2761  
Flat-Panel Monitors 5", 6", 10.4", 14x19" racks

### Videotek Inc

800-800-5719; 610-327-2292  
\*RM-13 and SVGA Monitors for Video Uses

Circle (413) on Free Info Card

### Zandar Technologies

+35312808945  
VMX16, VMX-6 Multiviewers-Split Screen Displays

Circle (405) on Free Info Card



**VIDEOTEK**  
A Zero Defects Company  
800 888 3424  
Incorporated October 10, 1989

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Videotek is a leading manufacturer of test and measurement equipment, video demodulators, routing switchers, and related equipment. We are committed to Zero Defects and are ISO-9001 certified.

## Video Routing & Distribution

Includes: Control signal routers/patch panels; Video DAs; Video processing amplifiers; Video routing switchers

### AAVS

+33 1 49 88 34 34  
\*SEL 16 Routing Switcher

### Adherent

+44 1223 200700  
\*SV 980 1x8 Parallel DA  
Circle (481) on Free Info Card

### Adrienne Electronics Corp

702-896-1858  
\*AEC-1 10x1 Video/Audio Router

### AJA Video

800-251-4224; 530-274-2048  
D5DA - 1x4 Serial DA, w/Reclocking and EQ.  
Multistandard

### Altinex Inc

800-ALTINEX; 714-990-2300  
MAX Series Matrix Switchers  
Homerun Series Matrix Switchers  
DA1226A - Component Video DA

### Artel Video Systems Inc

800-453-8782; 801-575-8801  
\*Utah-200 Compact Router  
\*Utah-300 Routing Switcher  
\*Utah-1500 HDTV Router

### AutoPatch

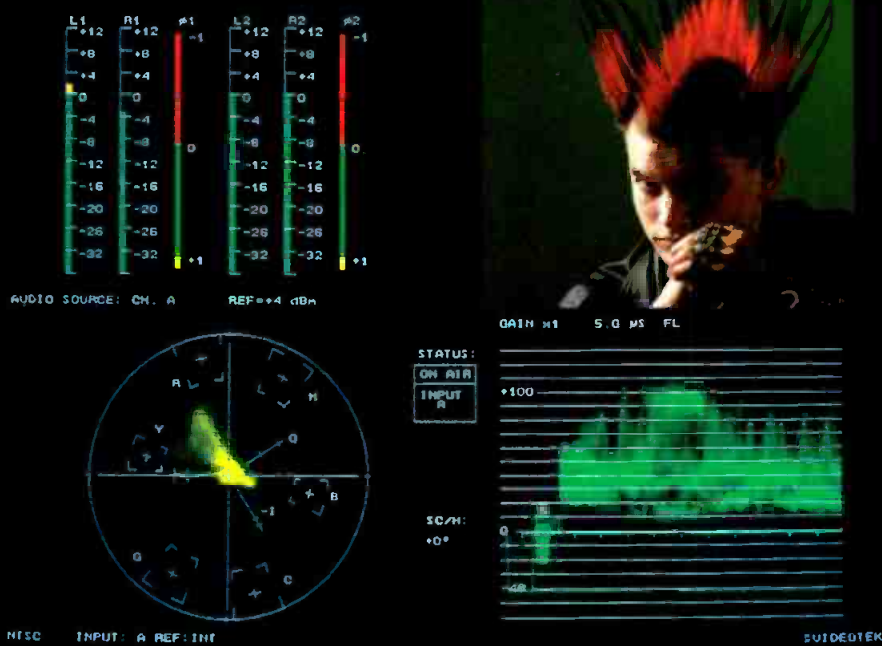
800-622-0246; 509-235-2636  
8Y-XL

\*1Y-16

Half y, 1y, 4y, 8y

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**VTM-203**  
Analog Composite/Serial Digital/  
Component Analog

**VTM-190**  
Serial Digital

**VTM-183**  
Analog Composite/  
Component Analog

**VTM-180**  
Analog Composite

Monitor not included.

PATENT  
PENDING



**VTM-200**  
Analog Composite/Serial Digital

## And Sets a New Standard for Test & Measurement

COOL. Not a word you've heard that often when describing test equipment. But, what else would you call the most practical means ever devised to ensure adherence to stringent video and audio standards? All of the major networks, high-end post houses, and major cable networks are using the VTM-200 multi-format instrument to measure quality everywhere, including their non-linear editing suites.

Simultaneous display of video, audio, vector, and picture makes these instruments really cool. And size does matter! Large or small, you decide.

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Circle (54) on Free Info Card

[www.americanradiohistory.com](http://www.americanradiohistory.com)

# Product Directory

## Avitel Electronics Ltd

+44(0)1816 55-3200  
DSC 1110 SDI Proc Amp, 3 Channels in 1RU-Frame  
VDA 3310 Equalizing, Remote Control Analog, SDI Versions

## Avtek Systems

800-423-0913; 978-422-3466  
Metawave MX256

## Axon Digital Design BV

+31(0)13511 6666  
FS-100, LS-100 Signal Processors  
SD-107, -117, -217 Digital Video DAs  
SW-221 Backup Switcher

## BAL Broadcast Ltd

+44(0)1203-375827  
Analog Distribution system  
Digital Distribution System

## Beck Associates Inc

888-422-8600; 512-252-7555  
\*SCP-10  
\*SCR 4x8

## Broadcast Video Systems Ltd

905-764-1584  
\*DV-4 4x1 Digital Key Switcher  
Circle (305) on Free Info Card  
VCA 850 GVG-Style Video Clamping DA  
Circle (306) on Free Info Card

## Burst Electronics Inc

505-898-1455  
VS 8x8 Video Crosspoint Switch

## Datatek Corp

800-882-9100; 908-654-8100  
\*D2600/2800 Digital Video Routers

## Di-Tech Inc

516-667-6300  
\*5875 D1 64x64 Matrix, 360Mbit  
Meridian Series Routers  
5881 Analog Video 128x160 Matrix

## DNF Controls

818-252-0198  
SW16x32 RS422 Port Switcher  
Circle (341) on Free Info Card

## ESE

310-322-2136  
ES-207A 1x4 Video DA  
Circle (344) on Free Info Card

## Evertz Microsystems Ltd

905-335-3700  
\*HDTV DA HD9501-DA

## Extron Electronics

800-633-9876; 714-491-1500  
P/2 DA PLUS Series VGA/XGA DAs  
\*6400 Series Matrix Switchers  
\*3200 Series Matrix Switchers  
\*CrossPoint 1616 Series Matrix Switchers

## FM Systems Inc

800-235-6960; 714-979-3355  
\*VM771 Video Gain Control-Automatic

## Horita Co Inc

949-489-0240  
VDA-50 Video DA  
Circle (468) on Free Info Card

## Hotronic Inc

408-378-3883  
Proc Amp - High-Performance Video Processor

## Image Video

416-750-8872  
\*XDS1601 16x1 Serial Digital Router

## ISIS Group

888-622-4747; 530-477-2984  
\*MF-800 2x1 Modular Switcher  
RTS Multi-Level Protection Switcher  
VTS-416 4x16 Reference Switcher  
VMS/AMS-126 Video/Audio 12x1  
\*VME-100 Video DAs

## Kramer Electronics

800-557-2637; 201-229-1059  
TP Series

## Leightronix

517-694-8000  
PRO-16 Event Controller/Switcher



Leitch Integrator

## Leitch Incorporated

800-231-9673; 757-548-2300  
\*BO/S

Circle (290) on Free Info Card

\*Integrator (See Photo)

Circle (363) on Free Info Card

\*HDTV Glue

Circle (240) on Free Info Card

\*VIA32

Circle (165) on Free Info Card

\*16x16 HDRouter

Circle (242) on Free Info Card

## Lighthouse Digital Systems

800-323-8287

\*HDTV Router

## MicroVideo Ltd

+44(0)1223 834119  
\*PROC-S, -SB and REM-KNB  
Digital Proc Amp

## Multidyne Inc

800-4TV-TEST; 516-671-7278  
VDA8505, Field DA w/3500ft EQ  
Circle (439) on Free Info Card  
VAGC-200 Video+EQ Automatic Gain DA  
Circle (437) on Free Info Card

## Network Electronics AS

800-877-8273; +47 33 48 99 99  
PRO XL Series of 32x32 Routers

## NVISION Inc

800-719-1900; 530-265-1000  
\*enVoy Series Universal Digital Routers  
\*1.5Gb/s Video DAs for 4000 Series

## Omicron Video

818-700-0742  
\*Model 500 Series Router  
\*Model 200 Series DAs

## Opamp Labs Inc

323-934-3566  
Video DAs



PESA Tiger 144x144 Router

## PESA Switching Systems Inc

800-328-1008; 256-726-9200

\*SDVDA 3001/2 SDV DAs

Circle (354) on Free Info Card

\*VPNet

Circle (175) on Free Info Card

\*3500 Router Control System

Circle (352) on Free Info Card

LNS-8 Live News Switcher

Circle (273) on Free Info Card

\*Tiger 144x144 Router (See Photo)

Circle (271) on Free Info Card

\*Ocelot 8x8 and 16x16 Routers

Circle (353) on Free Info Card

## Philips Digital Video Systems

800-962-4287; 801-977-1611

\*Venus Routing Switcher Systems

Circle (211) on Free Info Card

JupiterPlus Routing and Machine Control System

Circle (376) on Free Info Card

\*GS-499 Venus Gigabit Routing Switcher

Circle (377) on Free Info Card

## Prager Associates

310-474-8139

SERDIS4 Serial Digital DA

## Ross Video Ltd

613-652-4886

\*RossGear Terminal Equipment, Analog & Digital

Circle (334) on Free Info Card

## Sierra Video Systems Inc

916-478-1000

Digilinx Series

Ponderosa Series

Siskiyou Series

## Sigma Electronics

717-569-2681

\*Editing Router

DVD-2104 Digital 1x8 Reclocking & EQ DAs

\*DVS-1616 16x16 Serial Digital Routing System

HPX High Performance 8x8 to 16x16 Router

\*ADX, Large Matrix, 16x16 to 128x128 Router

## Snell & Wilcox

+44(0)1730 821188

HD1132/HD1116 Video Routers

## Sony Electronics

800-635-SONY

\*DVS-V6464B Serial Digital Routing Switcher

Circle (107) on Free Info Card

\*HDS-V3232 Line of High-Definition Digital Routing Switchers

Circle (122) on Free Info Card

**MPEG 4:2:2**

**MPEG 4:2:0**

**ENCODE**



**DECODE**

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World Wide Web www.wegener.com



Circle (25) on Free Info Card

www.americanradiohistory.com

# Product Directory

## Technical Necessities/TecNec

800-543-0909; 914-246-0428

**Cable Stretcher - Video Line Amp, EQ**  
\*1 Punch - Router for Nonlinear Editing  
Route 4 - Router for Nonlinear Editing

## Tektronix Inc Video & Network Division

800-547-8949

\*Grass Valley 8900, 8800, 8500 Series DAs

Circle (395) on Free Info Card

\*Grass Valley Performer 10x1 Router

Circle (394) on Free Info Card

\*Profile VideoGateway (Specialized Video IP router)

Circle (392) on Free Info Card

\*Grass Valley Series 7000 Signal Management System

Circle (393) on Free Info Card

## TeleCast Group AS

+47 33 44 72 00

VD 2000 Digital Video Routing Switchers

## Telect Inc

800-551-4567; 509-926-6000

3156 - Serial Digital Video DA, Non-Reclocking  
64x64 VAA - 64x64 Video, Stereo Audio Router  
(150MHz)

\*2000 - VersaFrame Modular Signal Management System Chassis

32x32 VAA - 32x32 Video, Stereo Audio Router  
(150MHz)

\*3160 - 16x16 Digital Video Routing Switcher

2102 - Video DA w/Differential Input

2103 - Video DA w/Differential Input and EQ

3157 - Serial Digital Video DA, w/Reclocking

## TV One Multimedia Solutions

800-721-4044; 606-282-7303

Splitter 525 PC Signal Splitter

## Video Accessory Corp

800-821-0426; 303-443-4950

VB/4x1 4x1 Video Switch

Circle (356) on Free Info Card

XVB/VDA

Circle (279) on Free Info Card

EQVB/VDA-XL

Circle (174) on Free Info Card



Videotek SDR.104

## Videotek Inc

800-800-5719; 610-327-2292

\*VDA and DDA Series for Analog and Digital Video

Circle (414) on Free Info Card

\*Single Bus and Matrix Routers - Analog and Digital

Circle (416) on Free Info Card

\*DPA-100 and SDC Series of Proc Amps and Color Correctors

Circle (415) on Free Info Card

SDR Matrix Router Family (see photo)

Circle (103) on Free Info Card

## Ward-Beck Systems Ltd

800-771-2556; 416-438-6550

RAV-24 Router

www.litch.com/asc/

ASC's product line includes video server systems and nonlinear editing systems, as well as networking, server, and storage technologies for broadcast and post-production applications.

## Video Servers & Storage

Includes: Commercial insertion equipment/software; Hybrid recorders (disk and tape); On-air presentation systems; Still/clip stores; Tape library systems; VDRs (video disk recorders); Video servers; VTRs

## AAVS

+33 1 49 88 34 34

\*DIVA-DVCPRO Library System

## Accom Inc

650-328-3818

\*Axess

\*WSD/2Xtreme Video Disk Array

\*APR Attache Digital Disk Recorder

## Aston Electronic Designs Ltd

+44 1252 836221

\*Concept Still- and Clip-Store

## Avica

818-846-0589

\*Vecta DTV Still-Store

## Avid Technology Inc

800-949-AVID; 978-640-6789

\*MediaServer

## Celerity

423-539-3521

\*CTL-9000

\*Interactive Video Servers

## Channelmatic-LIMT

619-596-8968

MVP (Managed Video Playback)

LVS - Local Video Server

DMM - Digital MoneyMaker

## Cinebase Software

888-CINEBASE; 310-479-3700

\*Cinebase Media Asset Server w/Video Tools

## Digital Processing Systems/DPS

800-775-3314; 606-371-5533

DPS Whiplash Sto-Mo System

Circle (264) on Free Info Card

DPS Vclips Still- and Motion-Video Store

Circle (205) on Free Info Card

Simply Hollywood Uncompressed Video DDR

Circle (265) on Free Info Card

Digital Vision (DV Sweden AB)

+46 8 182465

\*BitPack HDTV Video/Audio Encoding System

## DNF Controls

818-252-0198

ST60, ST100, ST200, ST300 Controllers

Circle (343) on Free Info Card

\*2000CL - 200 Clip Instant Access System

Circle (342) on Free Info Card

## Doremi Labs Inc

323-874-3411

\*V1 Video Server

\*VID Video Disk Recorder

## Drastic Technologies

416-255-5636

VVW 3400TD Variable Length Video Delay

\*VVW 1500 Lower-Cost Variable MJPEG DDR

VVW 1700 Variable MJPEG DDR

VVW 2000/2500 IEEE News/Dn-Air DDR

VVW 5000 10-bit Uncompressed DDR

VVW 3500 Dual Channel Video Server

VVW 4500 Multichannel MPEG-2 Video Server

VVW 1900 Sports/Replay Variable MJPEG DDR

## DVS Digital Video Inc

818-846-9444

\*MovieVideo BSS HDTV Broadcast Still-Store

\*MovieVideo SCS HDTV Still- and Clip-Store

\*ProntoServer HD360 Panasonic Compressed Server

\*ProntoServer Video Server 480p

\*ProntoVision HDTV Disk Recorder

\*ProntoVideo HD360 Panasonic Compressed DDR

## Electronica Industriale Spa

+39 39 7398 369

Cart Machine

## Fast Forward Video

800-755-8463; 714-852-8404

Domega Series VDRs

## FloriCal Systems Inc

352-372-8326

\*SpotCacher - Video Server Content Manager

\*Cacheplayer - Entry-Level Video Server

## For-A Corporation of America

714-894-3311

FR-200 Low-Cost Digital Recorder w/Optical Memory



Hewlett-Packard MediaStream

## Hewlett-Packard Company

800-452-4844

MediaStream Server

Circle (131) on Free Info Card

MediaStream Disk Recorder (see photo)

Circle (127) on Free Info Card

## JVC Professional Products Co

800-JVC-5825; 973-315-5000

\*BR-D40 Digital-S Dockable Recorder

\*SR-W5U W-V5U W-VHS HDTV Recorder/player

BR-DV10 Mini-DV Dockable Recorder

\*BR-D51 Digital-S/SVHS player

\*BR-D350 Player

\*BR-D92 and BR-D52 Digital-S Studio VTRs

\*BR-D750U Digital-S Recorder



**THE MORE HYPE THERE IS IN BROADCASTING,  
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There have been plenty of wild claims flying around out there about digital video. So when we introduced a video disk recorder with integrated RAID for about the price of a broadcast digital VTR, well, let's just say people found it hard to swallow.

The Hewlett-Packard MediaStream Disk Recorder is the newest member of our MediaStream family. It works perfectly well on its own, or in concert with our MediaStream Broadcast Server. And like all our products, it has plenty of room to grow.

You can start with just two channels, or as many as five. It stores up to 18 hours of broadcast-quality programming, and it even supports fiber channel networking. And all you need to get started is just \$65,000\* and a little space in a standard rack.

The HP MediaStream Disk Recorder can make the leap to digital a lot less of a leap. For more information, call 1-800-452-4844,\* Ext. 5506.

We'll show you digital video you can believe in.



*The \$65,000\* HP MediaStream  
Disk Recorder: Digital  
video comes down to earth.*

\*U.S. list price  
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# Product Directory

## Kalidea

+33 (3) 8 85 68 21 0  
\*DPR700 Real-Time Uncompressed Digital Disk Recorder

## Ktech Telecom Inc

818-361-2248  
\*TSS-100 MPEG-2 Bitstream Playback Unit



Leitch ASC VR-300

## Leitch Incorporated

800-231-9673; 757-548-2300  
ASC VR-300 (See Photo)

Circle (417) on Free Info Card

## Miles

+44-1635-552-524  
\*M44 On-air Clock  
\*M42+ Presentation Generator  
\*M25 Not-So-Still-Store

## MountainGate

800-556-0222; 702-851-9393  
CentraVision MPIRE Realtime I/O Processor w/VTR Emulation  
CentraVision MPIRE (Multipurpose Image Resource Engine)  
CentraVision

## NEC America Inc Broadcast Equipment Department

888-383-4DTV; 972-751-7246  
\*Diskcam Digital Optical Video Disk Editor

## Nesbit Systems Inc

609-799-5071  
Media Library System

## nSTREAMS

408-988-8188  
\*dvbSTREAMS - DVB Digital Video Server  
movieSTREAMS - NVD Server  
adSTREAMS-Ad Insertion Server

## Odetics Broadcast

714-774-2200  
\*TCS45-PRO DVCPRO Video Library

Circle (266) on Free Info Card  
\*TCS90-PRO DVCPRO Video Library

Circle (431) on Free Info Card

## Pacific Computing

831-427-4280  
\*OmniJet A/V 4x2 CAV/Audio w/ LTC/OSD/DTMF

## Panasonic Broadcast & Digital Systems Co

800-528-8601; 323-436-3500  
\*AJ-D950 DVCPRO50 Studio Editing VCR  
\*AJ-HD2700 - 1080i/720p Switchable D-5 HD Recorder  
\*AJ-PD950 DVCPRO50 Progressive Editing VTR  
\*AJ-D580 D-5 VTR/AJ-HDP500 HD Processor Combination  
AJ-D780 4x Transfer DVCPRO VCR

## Philips Digital Video Systems

800-962-4287; 801-977-1611  
Media Pool Digital Video Server  
Circle (183) on Free Info Card  
\*DCR Series of DVCPRO & DVCPRO50 VTRs

Circle (378) on Free Info Card

## Pixel Power Ltd

+44(0)1223-721000  
\*Collage Series

## Pluto Technologies Int'l

303-402-9000  
\*HyperSPACE HD Digital Video Recorder  
\*VideoSPACE Digital Video Recorder  
\*AirSPACE Multichannel Broadcast Server

## Preferred Video Products

800-556-6544; 818-562-6544  
MTI IntelliDeck Image Processing System

## Prime Image Inc

408-867-6519  
Time Machine

## Quantel Inc

800-218-0051; 203-656-3100  
\*Pictureframe - Single-user, Multi-output Graphics System

Circle (497) on Free Info Card

\*Picturebox - Multi-user Multi-output Still-Store

Circle (496) on Free Info Card

\*CacheBox Distribution Server

Circle (257) on Free Info Card

\*Inspiration - Integrated News/Sports Production System

Circle (495) on Free Info Card

\*ClipBox Central Video Server

Circle (167) on Free Info Card

## QuVIS

800-554-8116; 785-272-3656  
\*QuBit Digital Motion Image Recorder

## Ross Video Ltd

613-652-4886  
\*DVB-8020 Digital Video Buffer

Circle (330) on Free Info Card



Scitex Digital Video Replay

## Scitex Digital Video

888-846-7017; 650-369-5111  
Replay On-Air Presentation System (See Photo)

Circle (451) on Free Info Card

## Seachange International

978-897-0100  
Broadcast MediaCluster

## Shootview Digital Ltd

+44 1932 782 823  
Aries

## Sierra Design Labs

702-831-7837  
Diskcovery  
SierraRAID  
\*HD 1.5 Plus  
\*Quickframe HD360 Option  
Quickframe  
NFS Server

## Silicon Graphics Inc

800-800-7441; 415-960-1980  
Streamcaster



Sony Electronics MAV-70

## Sony Electronics

800-635-SONY  
\*HDCAM Line of High-Definition VTRs  
Circle (118) on Free Info Card  
\*Digital Betacam Line of VTRs  
Circle (117) on Free Info Card  
DVCAM Line of VTRs  
Circle (106) on Free Info Card  
\*MAV-70 Selectable Bit Rate MPEG-2 Server for FlexSys (See Photo)

Circle (115) on Free Info Card

\*BetacamSX Line of VTRs

Circle (116) on Free Info Card

## Spencer Technologies

818-840-0907  
\*Spotstore - Multichannel Time Delay  
\*SS-2000 w/DVE, Linear/Chroma Keyers  
\*Newstore - Dual-Channel, NLE, Animation w/Key  
\*Newstore II - Includes 4-Channel, RAID, Editor, Fibre Channel

## STB Systems

888-478-2687; 972-234-8750  
Quartet GLI - PCI 4-Channel MPEG-2 Decoder w/Gen-lock

# Product Directory



Tektronix Inc Video

## Tektronix Inc Video & Network Division

800-547-8949

\*Profile PDR Series Networked Video Servers (See Photo)

Circle (397) on Free Info Card

\*Profile PLS200 Library System

Circle (398) on Free Info Card

\*Profile PRS250 RAID Storage System

Circle (399) on Free Info Card

## Thomson Broadcast Systems

+33 1 3420 7000

Nexstore

Vela

813-572-1230

\*Rapid Access - Video Delivery System

## Vibrint Technologies

78-275-4088

\*Mpression MPEG 4:2:2 Production Video Server

## Videomedia Inc

800-YES-VLAN; 408-227-9977

2XS

## Wire, Cable & Connectors

Includes: Audio cable; Audio connectors; Fiber optic cabling; Video cable; Video connectors

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Digital Transport Systems	<a href="http://www.dtsys.com">www.dtsys.com</a>	Exabyte	<a href="http://www.exabyte.com">www.exabyte.com</a>	Horita Co	<a href="http://www.horita.com">www.horita.com</a>
Digital Vision (DV Sweden AB)	<a href="http://www.digitalvision.se">www.digitalvision.se</a>	Extron Electronics	<a href="http://www.extron.com">www.extron.com</a>	Hosa Technology	<a href="http://www.hosatech.com">www.hosatech.com</a>
DISC	<a href="http://www.discjuke.com">www.discjuke.com</a>	Eyeon Software Inc.	<a href="http://www.eyeonline.com">www.eyeonline.com</a>	Hotronic	<a href="http://www.hotronics.com">www.hotronics.com</a>
Discount Video Warehouse	<a href="http://www.rosco.com">www.rosco.com</a>	Fairlight USA	<a href="http://www.fairlightsp.com.au">www.fairlightsp.com.au</a>	Hughes JVC Technology	<a href="http://www.hjt.com">www.hjt.com</a>
Divicom	<a href="http://www.divi.com">www.divi.com</a>	Faroudja Laboratories	<a href="http://www.faroudja.com">www.faroudja.com</a>	IDB Systems	<a href="http://www.idbsystems.com">www.idbsystems.com</a>
DNF Controls	<a href="http://www.dnfcontrols.com">www.dnfcontrols.com</a>	Fast Forward Video	<a href="http://www.ffv.com">www.ffv.com</a>	IDX Technology	<a href="http://www.idxtek.com">www.idxtek.com</a>
Dolby Laboratories	<a href="http://www.dolby.com">www.dolby.com</a>	Fiber Options	<a href="http://www.fiberoptions.com">www.fiberoptions.com</a>	Ikegami Electronics (USA)	<a href="http://www.ikegami.com">www.ikegami.com</a>
Doremi Labs	<a href="http://www.doremilabs.com">www.doremilabs.com</a>	Firstcorp	<a href="http://www.1stcorp.com">www.1stcorp.com</a>	Image Logic	<a href="http://www.imagelogic.com">www.imagelogic.com</a>
Dorrough Electronics	<a href="http://www.dorrough.com">www.dorrough.com</a>	FloriCal Systems	<a href="http://www.florical.com">www.florical.com</a>	Image Video	<a href="http://www.imagevideo.com">www.imagevideo.com</a>
Dove Systems	<a href="http://www.dovesystems.com">www.dovesystems.com</a>	FM Systems	<a href="http://www.fmsystems-inc.com">www.fmsystems-inc.com</a>	Imagine Products	<a href="http://www.imagineproducts.com">www.imagineproducts.com</a>
DPA Microphones	<a href="http://www.dpamicrophones.com">www.dpamicrophones.com</a>	Folsom Research	<a href="http://www.folsom.com">www.folsom.com</a>	IMMAD Broadcast Services	<a href="http://www.immad.com">www.immad.com</a>
Drake Automation	<a href="http://www.drake-automation.com">www.drake-automation.com</a>	For-A Corporation of America	<a href="http://www.for-a.co.jp">www.for-a.co.jp</a>	Incite Multimedia	<a href="http://www.inciteonline.com">www.inciteonline.com</a>
Drake Automation	<a href="http://www.drake-automation.com">www.drake-automation.com</a>	Force	<a href="http://www.forceinc.com">www.forceinc.com</a>	Industrial Acoustics	<a href="http://www.industrialacoustics.com">www.industrialacoustics.com</a>
Drastic Technologies	<a href="http://www.drastictech.com">www.drastictech.com</a>	Forecast Consoles	<a href="http://www.forecast-consoles.com">www.forecast-consoles.com</a>	InnovaCom	<a href="http://www.innovacom-mpeg2.com">www.innovacom-mpeg2.com</a>
DSC Labs	<a href="http://www.dsclabs.com">www.dsclabs.com</a>	Fostex America	<a href="http://www.fostex.com">www.fostex.com</a>	Innovative Devices	<a href="http://www.innovadev.com">www.innovadev.com</a>
DSP North America	<a href="http://www.dsppl.com.au">www.dsppl.com.au</a>	Fresh Music Library	<a href="http://www.freshmusic.com">www.freshmusic.com</a>	Innovision Optics	<a href="http://www.innovision-optics.com">www.innovision-optics.com</a>
DST - Digital System Technology	<a href="http://www.dstech.com">www.dstech.com</a>	Frezzi Energy Systems	<a href="http://www.frezzi.com">www.frezzi.com</a>	InnoVision Technology	<a href="http://www.invt.com">www.invt.com</a>
Dubner International	<a href="http://www.dubner.com">www.dubner.com</a>	Frontline Communications	<a href="http://www.frontlinecomm.com">www.frontlinecomm.com</a>	Inovonics	<a href="http://www.inovon.com">www.inovon.com</a>
DVS Digital Video	<a href="http://www.digitalvideosystems.com">www.digitalvideosystems.com</a>	Fujinon Broadcast & Communications Products Div	<a href="http://www.fujinon.co.jp">www.fujinon.co.jp</a>	Inscriber Technology	<a href="http://www.inscriber.com">www.inscriber.com</a>
DW Electro Chemicals	<a href="http://www.stabilant.com">www.stabilant.com</a>	Fujitsu General America	<a href="http://www.plasmavision.com">www.plasmavision.com</a>	Intelvideo	<a href="http://www.intelvideo.com">www.intelvideo.com</a>
E-Z UP International, Inc.	<a href="http://www.ezup.com">www.ezup.com</a>	Full Compass Systems	<a href="http://www.fullcompass.com">www.fullcompass.com</a>	Intraplex	<a href="http://www.intraplex.com">www.intraplex.com</a>
ECHOLab	<a href="http://www.echolab.com">www.echolab.com</a>	Furman	<a href="http://www.furmansound.com">www.furmansound.com</a>	Ipitek	<a href="http://www.ipitek.com">www.ipitek.com</a>
ECI Telecom	<a href="http://www.ecitele.com">www.ecitele.com</a>	G Prime	<a href="http://www.gprime.com">www.gprime.com</a>	ISIS Group	<a href="http://www.isis-group.com">www.isis-group.com</a>
Edgewise Media	<a href="http://www.edgewisemedia.com">www.edgewisemedia.com</a>	GAMPRODUCTS	<a href="http://www.gamonline.com">www.gamonline.com</a>	Islip Media	<a href="http://www.islip.com">www.islip.com</a>
Editing Technologies	<a href="http://www.etedit.com">www.etedit.com</a>	Garner Industries	<a href="http://www.garnerindustries.com">www.garnerindustries.com</a>	ITELCO USA	<a href="http://www.itelco-usa.com">www.itelco-usa.com</a>
		Garwood Communications	<a href="http://www.garwood-radio.com">www.garwood-radio.com</a>		
		Gefen Systems	<a href="http://www.gefen.com">www.gefen.com</a>		
		General Video Corp (GVC)	<a href="http://www.gvcusa.com">www.gvcusa.com</a>		

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- James Grunder & Associates  
[www.grunder.com](http://www.grunder.com)
- Jampro Antennas  
[www.jampro.com](http://www.jampro.com)
- Jazz Media Network  
[www.jazzmedianetwork.com](http://www.jazzmedianetwork.com)
- JBL Professional  
[www.jblpro.com](http://www.jblpro.com)
- Jensen Tools  
[www.jensentools.com](http://www.jensentools.com)
- JK Audio  
[www.jkaudio.com](http://www.jkaudio.com)
- JVC Information Products  
[www.jvc.info.com](http://www.jvc.info.com)
- JVC Professional Products  
[www.jvcpro.com](http://www.jvcpro.com)
- Kalidea  
[www.kalidea.com](http://www.kalidea.com)
- Kart-A-Bag  
[www.kart-a-bag.com](http://www.kart-a-bag.com)
- KD Kanopy, Inc.  
[www.kdkanopy.com](http://www.kdkanopy.com)
- Kings Electronics Co  
[www.kingselectronics.com](http://www.kingselectronics.com)
- Kino Flo Inc.  
[www.kinoflo.com](http://www.kinoflo.com)
- Kramer Electronics  
[www.kramerelectronics.com](http://www.kramerelectronics.com)
- Ktech Telecom  
[www.ktechtelecom.com](http://www.ktechtelecom.com)
- Lacie Limited  
[www.lacie.com](http://www.lacie.com)
- Larcan  
[www.larcan.com](http://www.larcan.com)
- Leader Instruments  
[www.leaderusa.com](http://www.leaderusa.com)
- Lectrosonics  
[www.lectro.com](http://www.lectro.com)
- Ledtronics  
[www.ledtronics.com](http://www.ledtronics.com)
- Leightronix  
[www.leightronix.com](http://www.leightronix.com)
- Leitch Incorporated  
[www.leitch.com](http://www.leitch.com)
- LEL Computer Systems  
[www.lelcs.com](http://www.lelcs.com)
- Lemo USA  
[www.lemo.ch](http://www.lemo.ch)
- Lighthouse Digital Systems  
[www.litehs.com](http://www.litehs.com)
- Lightning Eliminator & Consultants  
[www.lightningeliminators.com](http://www.lightningeliminators.com)
- Lipsner-Smith  
[www.lipsner.com](http://www.lipsner.com)
- Listec Video  
[www.listecprompters.com](http://www.listecprompters.com)
- Litton Electron Devices  
[www.littonedd.com](http://www.littonedd.com)
- Litton Life Support  
[www.litton.com](http://www.litton.com)
- LNR Communications  
[www.lnr.com](http://www.lnr.com)
- Location Sound  
[www.locationsound.com](http://www.locationsound.com)
- Logic Innovations  
[www.logici.com](http://www.logici.com)
- Logitek  
[www.logitekaudio.com](http://www.logitekaudio.com)
- Louth Automation  
[www.louth.com](http://www.louth.com)
- LPB  
[www.lpbinc.com](http://www.lpbinc.com)
- M&C Systems  
[www.mcsys.com](http://www.mcsys.com)
- Macrovision  
[www.macrovision.com](http://www.macrovision.com)
- Magni Systems  
[www.magnisystems.com](http://www.magnisystems.com)
- Magnum Towers  
[www.magnumtowers.com](http://www.magnumtowers.com)
- Manhattan Production Music  
[www.mppmusic.com](http://www.mppmusic.com)
- Marshall Electronics  
[www.mars-cam.com](http://www.mars-cam.com)
- Martinsound  
[www.martinsound.com](http://www.martinsound.com)
- Math Associates  
[www.mathassociates.com](http://www.mathassociates.com)
- Mathematical Technologies  
[www.pvpburbank.com](http://www.pvpburbank.com)
- Matthews Studio Equipment  
[www.matthewsgrip.com](http://www.matthewsgrip.com)
- Maxell Corp of America  
[www.maxell.com](http://www.maxell.com)
- MCL  
[www.mcl.com](http://www.mcl.com)
- Medea Corp.  
[www.medeacorp.com](http://www.medeacorp.com)
- Media 100  
[www.media100.com](http://www.media100.com)
- Media Computing  
[www.mediacomputing.com](http://www.mediacomputing.com)
- Media Concepts  
[www.mediaconceptsinc.com](http://www.mediaconceptsinc.com)
- MediaFORM  
[www.mediaform.com](http://www.mediaform.com)
- Megatrax Production Music  
[www.megatrax.com](http://www.megatrax.com)
- Mercury Computer Systems  
[www.SANergy.com](http://www.SANergy.com)
- MGE UPS Systems  
[www.mgeups.com](http://www.mgeups.com)
- Micro Communications  
[www.mcibroadcast.com](http://www.mcibroadcast.com)
- MICRODOLLY HOLLYWOOD  
[www.microdolly.com](http://www.microdolly.com)
- Microframe  
[www.microframecorp.com](http://www.microframecorp.com)
- MicroVideo  
[www.microvideo.co.uk](http://www.microvideo.co.uk)
- Microwave Radio Communications  
[www.cm-mrc.com](http://www.cm-mrc.com)
- Miles  
[www.miles-tv.co.uk](http://www.miles-tv.co.uk)
- MilesTek  
[www.milestek.com](http://www.milestek.com)
- Miller Fluid Heads (USA)  
[www.miller.com.au](http://www.miller.com.au)
- Mina Systems  
[www.minasystems.com](http://www.minasystems.com)
- Mindport  
[www.mindport.com](http://www.mindport.com)
- Minerva Systems  
[www.minervasys.com](http://www.minervasys.com)
- Miranda Technologies  
[www.miranda.com](http://www.miranda.com)
- MIT  
[www.mogami-wire.co.jp](http://www.mogami-wire.co.jp)
- Mobile International Co Inc.  
[www.mobileintl.com](http://www.mobileintl.com)
- Modulation Sciences  
[www.modsci.com](http://www.modsci.com)
- Mohawk/CDT  
[www.mohawk-cdt.com](http://www.mohawk-cdt.com)
- Mole-Richardson  
[www.mole.com](http://www.mole.com)
- Motion Analysis  
[www.motionanalysis.com](http://www.motionanalysis.com)
- Motorola Semiconductor Products Sector  
[www.motorola.com/sps/rf](http://www.motorola.com/sps/rf)
- MountainGate  
[www.mountaingate.com](http://www.mountaingate.com)
- MPO Videotronics  
[www.mpo-video.com](http://www.mpo-video.com)
- Multidyne  
[www.multidyne.com](http://www.multidyne.com)
- MYAT  
[www.myat.com](http://www.myat.com)
- N Systems  
[www.nsystems.com](http://www.nsystems.com)
- Nagra USA  
[www.nagra.com](http://www.nagra.com)
- Nalpak Video Sales  
[www.nalpak.com/nalpak](http://www.nalpak.com/nalpak)
- NDS Americas  
[www.ndsworld.com](http://www.ndsworld.com)
- NEC America Inc Broadcast Equipment  
[www.nec.com/products/ccd/](http://www.nec.com/products/ccd/)
- NEC Technologies/Professional Graphics  
[www.nec.com](http://www.nec.com)
- Nemal Electronics Int'l  
[www.nemal.com](http://www.nemal.com)
- Nesbit Systems  
[www.nesbit.com/~nesbit/](http://www.nesbit.com/~nesbit/)
- Network Electronics AS  
[www.network-electronics.no](http://www.network-electronics.no)
- Neumann USA  
[www.neumannusa.com](http://www.neumannusa.com)
- Neutrik AG  
[www.neutrik.com](http://www.neutrik.com)
- Neutrik USA  
[www.neutrikusa.com](http://www.neutrikusa.com)
- New England Satellite Systems  
[www.nesatellite.com](http://www.nesatellite.com)
- New World Graphics Inc  
[www.nwginc.com](http://www.nwginc.com)
- NewsMaker Systems  
[www.newsmaker.net](http://www.newsmaker.net)
- Newtec America  
[www.newtec.be](http://www.newtec.be)
- NewTek  
[www.newtek.com](http://www.newtek.com)
- NEXUS Informatics GmbH  
[www.nexus-informatics.de](http://www.nexus-informatics.de)
- Norpak  
[www.norpak.ca](http://www.norpak.ca)
- Nothing Real  
[www.nothingreal.com](http://www.nothingreal.com)
- Nova Systems  
[www.nova-sys.com](http://www.nova-sys.com)
- NPR Satellite Services  
[www.nprsat.org/nprss](http://www.nprsat.org/nprss)
- nSTREAMS  
[www.nstreams.com](http://www.nstreams.com)
- Nucomm  
[www.nucomm.com](http://www.nucomm.com)
- NVISION  
[www.nvision1.com](http://www.nvision1.com)
- NWL  
[www.nwl.com](http://www.nwl.com)
- O'Connor Engineering  
[www.ocon.com](http://www.ocon.com)
- Odetics Broadcast  
[www.odetics.com/broadcast/](http://www.odetics.com/broadcast/)
- OGM Production Music  
[www.ogmmusic.com](http://www.ogmmusic.com)
- Opamp Labs  
[www.opamplabs.com](http://www.opamplabs.com)
- Options International  
[www.OptionsInternational.com](http://www.OptionsInternational.com)
- Orban  
[www.orban.com](http://www.orban.com)
- Ortel  
[www.ortel.com](http://www.ortel.com)
- Pacific Computing  
[www.pacific-computing.com](http://www.pacific-computing.com)
- Pacific Radio Electronics  
[www.pacrad.com](http://www.pacrad.com)
- PAG  
[www.pag.co.uk](http://www.pag.co.uk)
- Panasonic Broadcast & Digital Systems  
[www.panasonic.com/PBDS](http://www.panasonic.com/PBDS)
- PANORAMAdv  
[www.panoramadv.com](http://www.panoramadv.com)
- Paravion Technology  
[www.paravion.com](http://www.paravion.com)
- ParkerVision  
[www.parkervision.com](http://www.parkervision.com)
- Pathlight Technology, Inc.  
[www.pathlight.com](http://www.pathlight.com)
- PC Video Conversion  
[www.pcvideo.com](http://www.pcvideo.com)
- Pearl Microphone  
[www.pearl.se](http://www.pearl.se)
- Peerless Industries  
[www.peerlessindustries.com](http://www.peerlessindustries.com)
- Penta Labs  
[www.pentalabs.com](http://www.pentalabs.com)
- PESA Switching Systems  
[www.pesa.com](http://www.pesa.com)
- Philips Components  
[www.plumbicon.com/philips](http://www.plumbicon.com/philips)
- Philips Digital Video Systems  
[www.broadcast.philips.com](http://www.broadcast.philips.com)
- Phillystran  
[www.phillystran.com](http://www.phillystran.com)
- Physical Optics  
[www.poc.com](http://www.poc.com)
- Pinnacle Systems  
[www.pinnaclesys.com](http://www.pinnaclesys.com)
- PIROD  
[www.pirod.com](http://www.pirod.com)
- Pixel Instruments  
[www.pixelinstruments.com](http://www.pixelinstruments.com)
- Pixel Power  
[www.pixelpower.co.uk](http://www.pixelpower.co.uk)
- Plastic Capacitors  
[www.plasticcapacitors.com](http://www.plasticcapacitors.com)
- Play Incorporated  
[www.play.com](http://www.play.com)
- Pluto Technologies Int'l  
[www.plutotech.com](http://www.plutotech.com)
- Porta-Jib/Hollywood General Machining  
[www.portajib.com](http://www.portajib.com)
- Porter Case  
[www.portercase.com](http://www.portercase.com)
- Potomac Instruments  
[www.pi-usa.com](http://www.pi-usa.com)
- PowerProduction Software  
[www.powerproduction.com](http://www.powerproduction.com)
- PRECO  
[www.preco.net](http://www.preco.net)
- Premier Lighting & Production  
[www.premier-lighting.com](http://www.premier-lighting.com)
- Premier Wireless  
[www.premierwirelessinc.com](http://www.premierwirelessinc.com)
- Prime Image  
[www.primeimageinc.com](http://www.primeimageinc.com)
- Prism Media Products  
[www.prismsound.com](http://www.prismsound.com)
- Pristine Systems  
[www.pristinesys.com](http://www.pristinesys.com)
- Pro Battery  
[www.probattery.com](http://www.probattery.com)
- Pro TeleVision Technologies  
[www.ptv.dk](http://www.ptv.dk)
- Prodelin  
[www.prodelin.com](http://www.prodelin.com)
- Professional Audio Supply  
[www.lights-audio.com](http://www.lights-audio.com)
- Professional Communications Systems  
[www.pcomsys.com](http://www.pcomsys.com)

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- Progressive Marketing Products Inc. [www.deltadesigns.com](http://www.deltadesigns.com)  
Promusic [www.promusic-inc.com](http://www.promusic-inc.com)  
PSP Digital Ltd. [www.psp-digital.co.uk](http://www.psp-digital.co.uk)  
PSSI [www.800satlink.com](http://www.800satlink.com)  
QTV [www.ocon.com](http://www.ocon.com)  
Quantegy [www.quantegy.com](http://www.quantegy.com)  
Quantel [www.quantel.com](http://www.quantel.com)  
Quickset International [www.tripods.com](http://www.tripods.com)  
Quintech Electronics and Communications Inc (QEC) [www.qecinc.com](http://www.qecinc.com)  
QuVIS [www.quvis.com](http://www.quvis.com)  
Radamec [www.radamec.com](http://www.radamec.com)  
Radial Engineering [www.radialeng.com](http://www.radialeng.com)  
Reeves A/V Systems [www.reevesav.com](http://www.reevesav.com)  
RF Specialties of California [www.rfspec.com](http://www.rfspec.com)  
RFS Broadcast (Cablewave) [www.rfs-broadcast.com](http://www.rfs-broadcast.com)  
RGB Spectrum [www.rgb.com](http://www.rgb.com)  
Richardson Electronics [www.rell.com](http://www.rell.com)  
Rip-Tie [www.riptide.com](http://www.riptide.com)  
River City Sound Productions [www.rivercitysound.com](http://www.rivercitysound.com)  
Rohde & Schwarz GmbH Co KG [www.rsd.de](http://www.rsd.de)  
ROSCO/Entertainment Technology [www.teleport.com/~etinet](http://www.teleport.com/~etinet)  
Roscor [www.roskor.com](http://www.roskor.com)  
Ross Video [www.rossvideo.com](http://www.rossvideo.com)  
RSI Power Technologies [www.powertechinc.com/](http://www.powertechinc.com/)  
Sabine [www.sabineinc.com](http://www.sabineinc.com)  
Sascom Marketing Group [www.sascom.com](http://www.sascom.com)  
Satellite Export & Engineering [www.sepatriot.com](http://www.sepatriot.com)  
Scala Electronic [www.scala.net](http://www.scala.net)  
Scientific-Atlanta [www.sciatl.com](http://www.sciatl.com)  
Scitex Digital Video [www.scitexdv.com](http://www.scitexdv.com)  
Screenplay Systems [www.movie-magic.com](http://www.movie-magic.com)  
Seachange International [www.schange.com](http://www.schange.com)  
Sencore [www.sencore.com](http://www.sencore.com)  
Sennheiser Electronic [www.sennheiserusa.com](http://www.sennheiserusa.com)  
Shively Labs [www.shively.com](http://www.shively.com)  
Shook Electronics USA [shook-usa.com](http://shook-usa.com)  
Shootview Digital [www.shootview.com](http://www.shootview.com)  
Shure Brothers [www.shure.com](http://www.shure.com)  
SiCOM [www.sicom.com](http://www.sicom.com)  
Sierra Design Labs [www.sdlabs.com](http://www.sdlabs.com)  
Sigma Electronics [www.sigmaelectronics.com](http://www.sigmaelectronics.com)  
Silicon Graphics [www.sgi.com](http://www.sgi.com)  
SMPTE [www.smpte.org](http://www.smpte.org)  
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# LEADER

## 1080i/1035i/720p

# HDTV TEST SOLUTIONS NOW!

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### HDTV Digital & Analog Waveform Monitor - LV 5150D

- 2 Serial Digital Inputs (SMPTE 292M)
- 1 3-Wire Analog Input (SMPTE 240M)
- 1080i/1035i Operational, 720p Optional
- Full EDH Error Reporting with Alarms
- Waveform, Vector, Picture and Stereo Monitoring
- Overlay, Parade and Timing (Bowtie) Waveforms
- Active Serial Input Decoded to Analog Pix Monitor Output
- Active Serial Switched (A or B) Output

### HDTV Serial Digital Signal Generator - LT 440D

- 1125/59.94 HDTV Operation (60Hz option can be added)
- 1080i or 1035i Active Lines; Front Panel Switchable
- Digital Genlock to 1125 Tri-Level Sync or 525 NTSC Black Burst; Adjustable Delay
- Embedded as well as Separate AES/EBU Audio
- Tri-Level Sync Output and H&V Drives
- Source Identification

Parade



### See For Yourself...

Feature	LEADER	THE BIG "T"
<b>LV 5150D HDTV Digital &amp; Analog Waveform Monitor</b>		
True Instrumentation CRT for Clean, Detailed Waveform Observation	Yes	No
3-Wire Analog Input for Monitoring Decoded Analog HDTV	Yes	No
<b>LT 440D HDTV Serial Digital Signal Generator</b>		
Embedded As Well As Separate AES/EBU Outputs	Yes	No
<b>General</b>		
Parts & Labor Warranty	2 Years	1 Year
First Time Calibration — Free	Yes	No

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- ABC • Bexel • CBS • Crawford Communications
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# LEADER

FOR PROFESSIONALS WHO KNOW THE DIFFERENCE

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Regional Offices: Chicago, Dallas, Los Angeles, Atlanta

Leader Instruments Corporation was the first test equipment manufacturer to meet the needs of video professionals in the start-up aspects of HDTV production. Products shown at NAB 97 included the LV 5150D Waveform Monitor and the LT 440D Signal Generator. These have found widespread use among the networks and major production houses. A close working relationship between these users and Leader have helped to refine the instruments to the point where they are recognized as essential building blocks in any HDTV facility.

The LV 5150D Waveform Monitor handles both SDI and analog (three-wire) feeds for 1125 signals (1080 or 1035 lines displayed.) 720p operation is an option. Analog component operation is very useful as there are few analog component monitors readily at hand for 1125/60 and inspection of signals in the analog domain remains important. The LV 5150D offers waveform display in overlay and parade in the choice of YCbCr or GBR. Vector display is shown with the option of an electronic or external/illuminated graticule, and a picture display shows program material (from the Y or G components) as well as signals outside the active picture area. An analog stereo audio display with settable level reference is also provided. Line select operation and precision waveform cursors are standard as well as full error and 16-channel audio status reporting.

The LT 440D Signal Generator operates in the 1125/59.94 system with user selection of 1035 or 1080 lines displayed. It features eight channels of embedded AES/EBU audio as well as a separate AES/EBU audio output feed. Digital genlock to black burst or composite tri-level sync is provided with 100-line settable advance delay. Test signals are tailored to digital operations and include the pathological check field and a 20-character source ID. 1125/60 operation is available as an option.

The LT 1611 Generator delivers analog RGB signals that cover an enormous range of raster formats including 525/60, 625/50 and all of the HDTV formats currently under consideration. The unit is preprogrammed by ROM or may be PC programmed by the user. This allows for format editing as well as design of custom test patterns. When combined with Model LT 1606 Video Encoder, RGB is transformed into full encoded NTSC, PAL or component YPbPr with tri-level sync where applicable.

**LV 5150D Digital Waveform Monitor**



**New!**  
720p Option  
Now Available  
Call  
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For Details

- HDTV Waveform, Component Vector, Picture Monitor
- Two SDI Inputs
- Analog (3-Wire) Inputs
- Picture Monitor Output of YPbPr or GBR
- YCbCr or GBR Waveform Display
- Overlay, Timing and Parade 3-Channel Waveforms
- CbCr Component Vector Display
- Choice of Electronic or External (Illuminated) Vector Scale
- Picture Display (Y or G)
- Precision Cursor Measurements
- Stereo Audio X-Y Display
- Full Error-Reporting Facilities
- Full Line Select with Strobe in Picture Display

**LT 440D Signal Generator**



- 1125/59.94 HDTV Signal Source
- 1035 or 1080 Lines Displayed, Switchable
- 1125/60 Option
- Embedded and Separate AES/EBU Digital Audio
- 8 Channels of Embedded Audio, 2 Separate
- Digital Genlock with  $\pm 100$  Line Advance/Delay
- Analog Tri-Level Sync, H and V Drive Outputs
- 20-Character Programmable Source ID
- Supports Full Error Reporting Facilities
- Test Signals Include Pathological Check Field

**LT 1611 Programmable RGB Video Generator**



- PC Programming and Control Operates in Windows Environment
- ROM Setup and Control for Stand-Alone Operations
- Analog RGB, Clock to 150 MHz, Model LT 1611
- High Speed Switching Speeds Pattern Selection
- Power Saving Display Function as Specified in VESA Standards
- Graphic Design of Custom Test Patterns
- Stock Test Patterns Include SMPTE RP-133 & Flower Image
- Image Downloading
- X-Y Display Function Locates Pixel Coordinates (to Locate Display Faults)
- Auto Display Functions (Pattern Switching & Scroll)

**Leader Instruments Corporation**

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HDTV/HDTV

The first to offer an SDI waveform monitor capable of handling both digital and analog 3-wire components for 525/59.94 signals, Leader filled the SDI lineup with features like the first readout of data stream signal strength in terms of equivalent cable length, data readout in hex and an SDI generator with advanced features that include moving/switchable patterns to check the effects of concatenated compression.

The **LV 5100D Waveform Monitor** handles both SDI inputs as well as one 3-wire analog feed making it ideal for mixed facilities. Relative timing between SDI and analog feeds can be checked and the unit is equally at home in 525/60 and 625/50 systems. A huge range of operating options include line select, precision cursors, waveform display in GBR or YCbCr, overlay or parade waveforms, picture display (with line-select strobe and display of Y signals outside active picture), component vector and analog stereo Lissajous with menu-selected reference levels. Full EDH facilities are provided including error time readout and alarms to catch errors in categories chosen by the user. Data, in hex, for all 1716 data points per selected line is shown allowing easy search for normally hidden codes. The unit can be set to capture and freeze data at the time of error. The LV 5100DE version adds EYE pattern analysis with cursor rise/fall and jitter measurements.

The **LT 425D Signal Generator** offers four SDI outputs, one of them digital black. Four channels of AES/EBU digital audio may be embedded in the SDI data stream and a separate AES/EBU stereo pair is available from the rear panel. Digital genlock to black burst is provided with settable +16 line advance/delay. Test signals include shallow, oversized and digital-limit ramps. SMPTE bars (BBC bars in 625/50) and the pathological check field. Compression stress tests include a programmable moving white patch and switching between selected test patterns with selectable dwell times.

The **LT 5910** is a monitor in a true sense because it keeps track of all aspects of the SDI data stream without the need of human observation. Its three modes of operation include **MONITOR** where data is displayed in real time, **WATCH** where data is caught and frozen at the time of error, and **LOG** where details to up to 100 errors are stored. The unit operates in digital composite and component systems, provides a frame store with the ability to edit stored data, and features **EYE** pattern analysis. Stored data can be output (SDI) and used as a test pattern. User-designed monitoring programs include gamut ranges.

### LV 5100D/DE Component Waveform Monitor



- Component Digital and Component/Composite Analog
- Eye Pattern (SDI Waveform), Model LV 5100DE Only
- EDH Facilities
- Hex Readout of All Data Samples
- Serial Data Signal Strength Reading in Terms of Equivalent Length of Coax Cable
- User-Selected Alarms
- Picture Display of Y or G
- Full Line Select with Strobe on Picture Display
- Preset/Recall of 10 Front Panel Setups

### LT 425D Component Signal Generator



- 4 Serial (includes digital black) and 1 Parallel Outputs
- EDH Codes in Accordance With RP-165
- 4-Channel AES/EBU Embedded Audio plus
- Independent AES/EBU Digital Audio Output
- Compression Tests Include Variable Speed, Direction Controlled Marker and Sequentially Switched Patterns
- 20 Character Programmable ID and Calendar/Clock
- SMPTE Color Bars (BBC Bars in 625/50)
- Ramp: Oversize, Digital Limit and Shallow (10)
- SDI Pathological Check Field

### LT 5910 SDI Analyzer



- Continuous Monitoring of EDH, TRS, ANC and Gamut Errors
- SDI Level in Terms of Equivalent Cable Length
- Handles Digital Composite and Component at 525/60 & 625/50
- Active SDI & Frame-Stored Data Output
- Records Error Totals for Designated Periods
- Reads FF & AP EDH Errors, FFCRC and APCRC Codes and EDH Flags
- Ability to Edit and Output Frame-Stored Data
- Reads Status of 16 Audio Channels
- SDI Eye Pattern Monitoring with Levels and Time Cursors
- Printer Output

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Facilities operating in analog component (Betacam, MII, GBR or SMPTE) have their test-signal source and monitoring needs filled in the instruments shown on this page. All are capable of handling NTSC composite as well as analog components.

**Model 5100 Waveform Monitor** offers four-channel operation to accommodate YPbPr or GBR in 525/60, 625/50 or 1125/60. The fourth channel can be assigned to NTSC or PAL composite or any choice of synchronous signal. The hookup can be changed to handle four channels of composite, or composite, Y and C and another channel of choice. Waveform display includes overlay or parade, and the 30-MHz channel bandwidth coupled with HDTV time base allow the unit to display YPbPr for 1125/60 signals. The vectorscope display is menu-set up to correct calibration for Betacam, MII or SMPTE with or without setup. The vector display corrects automatically when 1125/60 HDTV signals are processed. Other outstanding features include full line-select operation, precision cursor measurement and presets to instantly recall panel setting for up to twelve routine operations. A universal power supply accepts worldwide power mains plus 12 V dc.

**Model 425A Signal Generator** supplies sync and component test signals in GBR or YPbPr in either the Betacam or MII formats. The choice of Betacam or MII should be made when ordering. In addition, the 425A outputs NTSC composite, Y and C for selected test patterns. A two-channel dubbing output of Y and time-compressed C is also provided to match the chosen format (Betacam or MII). Genlock operation is standard, and a front-panel switch allows the choice of zero or 7.5% setup. Test signals are tailored to either component or composite operations and include both component and composite pulse/bar, Bowtie, multiburst, modulated staircase and others.

**Model 5222 Waveform Monitor** handles a full eight channels to accommodate a pair of component signals for relative timing checks or two sets of four channels. The unit automatically switches between 525/60 or 625/50 to display NTSC, PAL, SECAM or component waveforms including YRGB. The 5222 also offers precision cursors for time or level measurements, the latter in volts, IRE units, % or dB. Y/C monitoring is facilitated by adding C to Y to show the familiar composite waveform. Line select is standard and includes a strobe of the selected line in the picture mode.

**Model 408** has been called the "DO IT ALL" generator because it delivers baseband and VHF/UHF/Cable signals with fully programmable test setups for 100 test routines. It outputs RF, composite video, Y, B-Y, R-Y, GBR and encoded C. It is mentioned here under *Component* because the programming capabilities facilitate the setup of Betacam or MII component signals.

### Model 5100 Waveform/Vector



- Four Channel Operation
- Auto Recognition Setup & 525/60, 625/50, 1125/60 Systems
- Full Line Select
- $\Delta$  Volts and  $\Delta$  Time Cursors
- Presets for Twelve Observation Setups
- Component Vector Display
- Betacam, MII, SMPTE, YPbPr and RGB

### Model 425A Signal Generator



- 525/59.94 Analog Component and NTSC Composite
- Betacam or MII
- Digital Genlock
- Shark Fin and Bowtie Timing Signals
- YPbPr, GBR, Composite and Y/C Signals
- Dub Feeds (Y/CTCM or CTDM)

### Model 5222 Waveform Monitor



- Parade and Overlay Displays
- Picture Display (with Line-Select Strobe)
- Full Line Select with 525/60 and 625/50 Notation
- Menu Selected Setup
- Memory Storage of 10 Panel Setups
- Cursor Measurement of Level and Time (0.5%)
- Level Cursors Read in Volts, IRE, % and dB

### Model 408 NTSC Test Generator



- NTSC M (408 and 408NPS)
- PAL-B, C, D, G, H, I, K and L (408NPS only)
- SECAM III-B, D, G, H, K and L (408NPS only)
- Composite, RGB, Y/R-Y/B-Y, Y/C
- VHF/UHF/Cable R-F Coverage
- Programmable Parameters
- 100 Program Storage

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Leader's lineup of NTSC composite monitoring and signal-generation equipment meets the needs of the most demanding production, post production, design and maintenance applications.

The **Model 5870 Combination Waveform/Vector Monitor** processes two NTSC inputs and provides overlay or side-by-side waveforms and overlay vector displays of the two input signals to facilitate precision phase matching and timing adjustments. A x5 vertical gain multiplier, 200 ns/div fastest time base and wide-ranging centering controls permit close inspection of all parts of the waveform for high resolution adjustments. Separate or simultaneous display of waveforms or vectors is possible, as is side-by-side display of a flat and low-pass (LUM) filtered signals. The use of decoded R-Y signals facilitates high-resolution checks of differential phase and gain. A precision measurement of SCII with digital readout of error with respect to the signal observed or an external reference checks color framing. Full line select operation is provided with sync from both or fields 1/3 or 2/4, and a preset system recalls up to 9 line selections for routine tests. The universal power supply accepts 90-250 V ac, 40-440 Hz as well as 12 V dc. **Model 5872A** is identical in all aspects to the 5870 except that it does not provide for SCII measurement.

**Models 5860C and 5850C Standard Waveform Monitor and Vectorscope** respectively are the familiar workhorses of video monitoring. They mount side-by-side in a half-rack adapter and handle two input feeds for level and timing comparisons. Both may be synchronized to an external reference for system timing/phase adjustments. The 5860C offers 1H, 2H, 1V and 2V sweeps plus 1  $\mu$ s/div and 2V magnifiers. Filters include FLAT, IRE, CHROMA and DIF'D STEP (the latter for linearity checks). The 5850C offers an internal, illuminated graticule as well as an electronic graticule that is immune to position settings and can be read from a distance.

**Model 411** is a 10-bit digital-to-analog synthesized signal generator that provides long and short term precision. It outputs two feeds of the selected test signal plus a continuous feed of SMPTE bars with a programmable 16-character SID. Balanced audio test tones and full sync-generator feeds are also provided. Seventeen test patterns including a 10% and 20% APL modulated staircase and bounce. Two black burst outputs are provided as well as digital genlock to an external reference. A front panel switch sets setup to zero or 7.5%. Provision is made for remote control of pattern selection.

**Model 410C** is also a 10-bit synthesizer to ensure precision NTSC signals over the long haul. It outputs 12 test signals including SMPTE, EIA and full-field color bars, pulse/bar and modulated staircase. Three black burst outputs are provided plus composite sync and CW subcarrier. Composite video output level is variable with a fixed cal setting. Provision is made for remote pattern selection.

### Model 5870 Combination Waveform/Vector



- Digital SCII Readout
- Simultaneous/Overlaid Displays
- Full Raster Line Select
- Line Select Presets

### Models 5860C and 5850C Waveform Monitor/Vectorscope



- |  |   |
|--|---|
| ■ Two Channels Plus EXT REF  | ■ Two Channels Plus EXT REF                                     |
| ■ 1H, 2H, 1V, 2V, Sweeps   | ■ EXT REF Accepts Composite Video, Black Burst or CW Subcarrier |
| ■ 1 $\mu$ s/div Plus 2V MAG  | ■ Accepts Line-Select Strobe                                    |
| ■ RGB Standard, YRGB Option  | ■ Electronic Scale Shows Error Limits                           |
| ■ FLAT, IRE, CHROMA and DIF'D STEP Filters (The Latter for Y Linearity Checks) | ■ No Parallax Error   |
| ■ Picture Monitor Output   | ■ Fits Half-Rack Adapter  |
| ■ Fits Half-Rack Adapter   |   |

### Model 411 Synthesized Signal Generator



- Precision 10-Bit D/A
- Digital Genlock
- 17 Test Signals + APL + Bounce
- Front Panel Setup Switch (0 or 7.5%)
- Dedicated SMPTE Bars Output with 16 Character Programmable SID
- Balanced Stereo-Audio Test Tones
- Occupies Only 1 1/2" of Vertical Rack Space

### Model 410C Synthesized Sync/Test Generator



- 10 Bit Digital Synthesizer
- Complies with RS-170A
- Pulse/Bar with Modulated 12.5T Pulse
- Multiburst at 50% and 100%
- Modulated and Unmodulated Staircase
- 3 Black Burst Outputs

## Leader Instruments Corporation

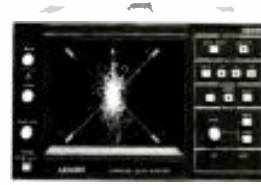
380 Oser Avenue, Hauppauge, New York 11788 Tel: (516) 231-6900 Fax: (516) 231-5295  
6484 Commerce Drive, Cypress, California 90630 Tel: (714) 527-9300 Fax: (714) 527-7490

For additional information call 1 (800) 645-5104  
Visit our web site at [www.leaderusa.com](http://www.leaderusa.com)

Circle (63) for Product Information Only  
Circle (64) for Product Info & Demo

Leader has a long history of supplying test instrumentation to the audio field. Some of the products in the full lineup are shown here.

**Model 5836A** is the first surround sound monitor capable of displaying the sound image for 3-1 and 3-2 surround-sound systems. It accepts digital AES/EBU digital inputs as well as balanced and single-ended analog feeds. Displays include the sound image with dedicated bargraph indicators for level and inter channel Lissajous patterns for relative amplitude and phase observations.



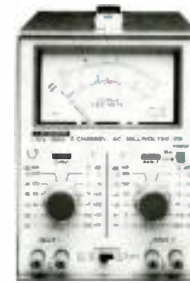
**Model 5836A**



**Model 5835**

**Model 5835** provides the means to monitor the phase and amplitude of stereo signals. Further, an automatic alarm is triggered if a serious phase error, as might be caused by a polarity inversion in either stereo feed, results in a significant L-R component for more than 5 seconds. This prevents serious degradation of sound for monaural listeners.

**Model LMV-186A** is a dual-channel AC millivoltmeter with 100  $\mu$ V sensitivity and 500-kHz bandwidth. Calibrated in mV, V, dBV and dBm, the unit is ideal for precision stereo measurements over a very wide range of levels.



**LMV-186A**



**LFM-39A**

**Model LFM-39A** has been the mainstay of test and QC operations where the measurement of wow and flutter is vital. It offers 0.03% full-scale sensitivity, conforms to JIS, CCIR and DIN standards, uses built-in weighting filters and provides an oscillator output.

**EFP/ENG PRODUCTS**

Developed to take video monitoring instrumentation into the field, the EFP/ENG products feature small size and weight. All operate from a 12 V dc source such as an NP-1 battery or vehicle power, have internal regulators to accept a wide range of supply voltages and provide a low-battery warning.



**Model 5864A**



**Model 5854**



**Model 413S**

The two-channel waveform monitor, **Model 5864A**, provides A/B input selection, 2H and 2V timebases with MAG on/off, Flat and IRE filters and a x4 gain boost. The two-channel vectorscope, **Model 5854**, provides phase control, A/B input selection as well as phase reference and a x5 gain boost for precise camera balance checks. The signal generator, **Model 413S**, outputs EIA and SMPTE color bars, a flat white field and a SNG color bar pattern especially designed for satellite operations. Features include an eight-character programmable SID and balanced audio test tones.



**LR-2452-02**

A full line of accessories facilitate the assembly of combination packages consisting of 1 to 4 units and includes carrying cases and battery attachments.



**LR-2451-011**

**Leader Instruments Corporation**

380 Oser Avenue, Hauppauge, New York 11788 Tel: (516) 231-6900 Fax: (516) 231-5295  
6484 Commerce Drive, Cypress, California 90630 Tel: (714) 527-9300 Fax: (714) 527-7490

Circle (65) for Product Information Only  
Circle (66) for Product Info & Demo

*For additional information call 1 (800) 645-5104  
Visit our web site at [www.leaderusa.com](http://www.leaderusa.com)*

Instrumentation designed for use in the video systems in use throughout the world has always been part of the Leader lineup. Included is **Model 5222**, an 8-channel component/composite waveform monitor capable of operating with NTSC, PAL and SECAM systems and offering full line select, picture mode, cursor operations, Y/C monitoring and memory storage of 10 observation setups. **Model 5212** is a three-channel NTSC/PAL vectorscope offering advanced features such as auto burst zeroing, digital phase measurement, overlay of 3 signals plus an external reference, CRT readout of DG and DP to two decimal places, storage of 10 presets and X/Y display for stereo audio monitoring. **Model 408NPS** is an extremely versatile NTSC/PAL/SECAM video generator that also outputs VHF/UHF cable signals. Programmability extends to channel selection (including carrier frequencies), Y, chroma, sync, burst and setup levels. Programming of 100 test setups includes pattern and channel selection, genlock and front panel settings. Outputs include RF, composite video, Y/C, Y/B-Y/R-Y, RGB, black burst, composite sync, H&V drive, burst flag and CW subcarrier.

**Model 5222****Model 5212****Model 408NPS**

## AV SERVICE PRODUCTS

Leader's full line of instrumentation covers a very wide range of test needs in manufacturing, QC and maintenance. The following instruments are of particular value on video/audio test benches.

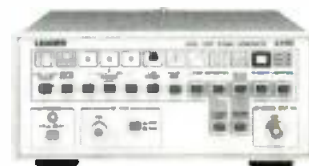
**Model 8106**, a two-channel 100-MHz oscilloscope, features on-screen readout of key settings, precision cursor measurements and continuous readout of V p-p, DC level, frequency or period. Calibrated delayed sweep extends to video line-select operations and dedicated TV sync separators ensure rock-solid video observations.

**Model LF 827** is a 1.3 GHz frequency counter featuring reciprocal counting for low frequencies, comparator to user preset frequencies and hi/lo readings with preset limits.

**Model 430**, a 10-MHz video sweep generator with multiple markers at key frequencies, is a must for the fully-equipped test or QC station. It also supplies multiburst and color bars.

**Model 435B** video generator is unique in that it supplies a 1000-line monoscope test pattern. Outputs include full field and SMPTE bars, pulse/bar, window, line sweep, mod stair, dot crosshatch, flat YRGB fields and computer-type display.

**Model 401YB** video generator is a valuable addition to the test bench featuring composite, Y/C, CH3/4 and RGB outputs, 11 test patterns and progressive or interlace scan.

**LS 8106****LF 827****Model 430****Model 435B****Model 401YB**

### Leader Instruments Corporation

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6484 Commerce Drive, Cypress, California 90630 Tel: (714) 527-9300 Fax: (714) 527-7490

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Visit our web site at [www.leaderusa.com](http://www.leaderusa.com)

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# Manufacturers/Dealers

## 360 Systems

5321 Sterling Center Dr  
Westlake Village, CA 91361  
818-991-0360  
Fax: 818-991-1360  
www.360systems.com

*See our products in the following categories: Audio Recording, Storage & Playback (p.18); Digital Audio Workstations (p.36)*

## 615 Music Library

1030 16th Ave S  
Nashville, TN 37212  
888-615-TRAX  
615-244-6515  
Fax: 615-242-2455  
www.615music.com



## A&J Cases

PO Box 90596 Airport Station  
Los Angeles, CA 90009  
800-537-4000  
310-216-2170  
Fax: 310-216-2694  
www.ajcases.com

## AAP Inc

16388 Industrial Dr - PO Box 430  
Milford, VA 22514  
804-633-9454  
Fax: 804-633-5499

## AAVS

222-226 rue de Rosny  
Montreuil, F-93100 France  
+33 1 49 88 34 34  
Fax: +33 1 48 57 33 58

## Ac-cetera Inc

3120 Banksville Rd  
Pittsburgh, PA 15216  
800-537-3491  
412-344-8609  
Fax: 412-344-0818  
www.ac-cetera.com

## Accom Inc

1490 O'Brien Dr  
Menlo Park, CA 94025  
650-328-3818  
Fax: 650-327-2511  
www.accom.com

## AccuWeather Inc

385 Science Park Road  
State College, PA 16803  
800-566-6606  
814-237-0309  
Fax: 814-235-8609  
www.accuweather.com

## Acoustic Systems

415 East Saint Elmo Road  
Austin, TX 78745  
800-749-1460  
512-444-1961  
Fax: 512-444-2282  
www.acousticsystems.com

## Acoustical Solutions

3603 Mayland Court  
Richmond, VA 23233  
800-782-5742  
804-346-8350  
Fax: 804-346-8808  
www.acousticalsolutions.com

## ACRODYNE

### Acrodyne Industries Inc

516 Township Line Road  
Blue Bell, PA 19422  
800-523-2596  
215-542-7000  
Fax: 215-540-5837  
www.acrodyne.com  
*See our products in the following categories: TV Transmitters, Translators, Exciters & Antennas (p.68)*

### ADC Broadcast Systems Division

102 Rahway Road  
McMurray, PA 15317  
724-941-1500  
Fax: 724-941-4603  
www.adc.com/broadcast  
*See our products in the following categories: RF Feedline, Components & Towers (p.56); TV Transmitters, Translators, Exciters & Antennas (p.68)*

### ADC

### Telecommunications Inc

1187 Park Place Drive  
Shakopee, MN 55122  
800-726-4266  
Fax: 612-946-3237  
www.adc.com  
*See our products in the following categories: Video Accessories (p.72); Wire, Cable & Connectors (p.86)*

## Adherent

### Adherent

Endeavor House Vision Park  
Histon Cambridge, CB4 4ZR UK  
+44 1223 200700  
Fax: +44 1223 200701  
www.adherent.com  
*See our products in the following categories: Test & Measurement Equipment (p.66); Video Routing & Distribution (p.78)*

### Adrienne Electronics Corp

7225 Bermuda Rd Ste G  
Las Vegas, NV 89119  
702-896-1858  
Fax: 702-896-3034  
www.adrielec.com

### Advanced Broadcast Systems Inc

5825 Bullittsville Rd  
Burlington, KY 41005-0147  
800-499-4554  
606-689-0075  
Fax: 606-689-0073  
*See our products in the following categories: TV Transmitters, Translators, Exciters & Antennas (p.68)*

### Advanced Furniture Systems

1545 N Washington Ave  
Loveland, CO 80538  
970-663-4123  
Fax: 970-663-6338  
www.omn.com/afs

### Advent Communications Ltd

Nashleigh Hill  
Chesham, Bucks, HP5 3HE UK  
+44 1494 774400  
Fax: +44 1494 791127  
www.advent-comm.co.uk

### AES (Audio Engineering Society)

60 E. 42 Street  
New York, NY 10165-2520  
212-661-8528  
Fax: 212-682-0477  
www.aes.org

### Aerial Films Inc

35 Airport Rd  
Morristown, NJ 07960  
800-543-8947  
973-984-6680  
Fax: 973-984-6899  
www.gyrocam.com

## AFA Products Group

100 Stonehurst Court  
Northvale, NJ 07647  
201-750-3200  
Fax: 201-750-3049

## AJA Video

443 Crown Point Circle  
Grass Valley, CA 95945  
800-251-4224  
530-274-2048  
Fax: 530-274-9442  
www.aja.com

## AKG Acoustics US

1449 Donelson Pike  
Nashville, TN 37217  
615-360-0499  
Fax: 615-360-0275  
www.akg-acoustics.com

## Alan Gordon Enterprises Inc

1430 Cahuenga Blvd  
Hollywood, CA 90028  
800-825-MOVI  
323-466-3561  
Fax: 323-871-2193  
www.alangordon.com

## Allen Avionics Inc

224 East Second Street  
Mineola, NY 11501  
516-248-8080  
Fax: 516-747-6724  
www.allenavionics.com

## Allen Osborne Associates

756 Lakefield Road Unit J  
Westlake Village, CA 91361  
805-495-8420  
Fax: 805-373-6067  
www.aoa-qps.com

*See our products in the following categories: Vehicles & Remote Equipment (p.70)*

## Allied Tower Company Inc

2525 South Shore Blvd Suite 420  
League City, TX 77573  
800-332-0025  
281-535-0501  
Fax: 281-535-0498  
alliedtower.com

## Alpha Video & Electronics Co

200 Keystone Dr  
Carnegie, PA 15106  
412-429-2000  
Fax: 412-429-2015



# Manufacturers/Dealers

## Alpha Wire Company

711 Lidgerwood Ave  
Elizabeth, NJ 07207-0711  
300-52-ALPHA  
308-925-8000  
Fax: 908-925-6923  
www.alphawire.com

## Altinex Inc

592 Apollo Street  
Brea, CA 92821  
800-ALTINEX  
714-990-2300  
Fax: 714-990-3303  
www.altinex.com

## Altronic Research Inc

PO Box 249  
Yellville, AR 72687-0249  
800-482-5623  
870-449-4093  
Fax: 870-449-6000  
www.altronic.com

## AMEK US Operations Inc

1449 Donelson Pike  
Nashville, TN 37217  
888-286-9358  
615-360-0488  
Fax: 615-360-0273  
www.amek.com

## Ampex Corp

500 Broadway  
Redwood City, CA 94063  
800-752-7590  
650-367-2011  
Fax: 650-367-3850  
www.ampex.com

## AMX Corp

11995 Forestgate Drive  
Dallas, TX 75243  
800-222-0193  
972-644-3048  
Fax: 972-907-2053  
www.amx.com



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10140 Mesa Rim Road  
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619-453-9191  
Fax: 619-453-1158  
www.andataco.com

## Andrew Corp

10500 W 153rd St  
Orland Park, IL 60462  
800-DIAL-4-RF  
708-349-3300  
Fax: 708-349-5220  
www.andrew.com

*See our products in the following categories: Microwave, Fiber Optic & Telco Equipment (p.46); RF Feedline, Components & Towers (p.56); Satellite Equipment (p.58); TV Transmitters, Translators, Exciters & Antennas (p.68)*

## Angenieux

40 G Commerce Way  
Totowa, NJ 07511  
973-812-3858  
Fax: 973-812-3858

## Antenna Concepts Inc

6601C Merchandise Way  
Diamond Springs, CA 95619  
530-621-2015  
Fax: 530-622-3274  
www.antennaconcepts.com

## Anton/Bauer

One Controls Dr  
Shelton, CT 06484  
800-422-3473  
203-929-1100  
Fax: 203-929-9935  
www.antonbauer.com

## Applied Research & Technology

215 Tremont St  
Rochester, NY 14608  
716-436-2720  
Fax: 716-436-3942  
www.artroch.com

## Apres Midi

120 Route 17 North  
Paramus, NJ 07652  
201-261-3959  
Fax: 201-261-3062  
apresmidi.com

## Armstrong Transmitter

4835 N. Street Road  
Marcellus, NY 13108  
315-673-1269  
Fax: 315-673-9972  
www.armstrongtx.com

## Arrakis Systems

2619 Midpoint Drive  
Fort Collins, CO 80525  
970-224-2248  
Fax: 970-493-1076  
www.arrakis-systems.com

## Arriflex Corp

617 Route 303  
Blauvelt, NY 10913  
914-353-1400  
Fax: 914-425-1250  
www.arri.com

## Artbeats Digital Film Library

1405 N. Myrtle Rd. Ste 5  
Myrtle Creek, OR 97457  
800-444-9392  
541-863-4429  
Fax: 541-863-4547  
www.artbeats.com

## Artel Software Inc

374 Congress Street, Suite 308  
Boston, MA 02210  
888-77-BORIS  
617-451-9900  
Fax: 617-451-9916  
www.BorisFX.com

## Artel Video Systems

237 Cedar Hill St  
Marlborough, MA 01752  
508-303-8200  
Fax: 508-303-8197  
www.artel.com

## Artel Video Systems Inc

4750 Wiley Post Way  
Salt Lake City, UT 84116  
800-453-8782  
801-575-8801  
Fax: 801-537-3099  
www.artel.com

## ASACA/ShibaSoku Corp of America

426 West Florence Ave.  
Inglewood, CA 90301  
800-423-6347  
310-672-6765  
Fax: 310-672-3665  
www.shibasoku.co.jp

## Ascension Technology Corp

PO Box 527  
Burlington, VT 05402  
800-321-6596  
802-860-6440  
Fax: 802-860-6439  
www.ascension-tech.com

## Aspen Electronics

5152 Bolsa #103  
Huntington Beach, CA 92649  
714-379-2515  
Fax: 714-379-2517  
www.aspenelectronics.com

## Associated Press

AP Broadcast News Center  
1825 K St NW  
Washington, DC 20006-1253  
800-821-4747  
202-736-1100  
Fax: 202-736-1124

## Aston Electronic Designs Ltd

125-127 Deepcut Bridge Rd  
Deepcut Camberley  
Surrey, GU16SD UK  
+44 1252 836221  
Fax: +44 125 283 7923  
www.astondes.com

## ATI-Audio Technologies Inc

328 W Maple Ave  
Horsham, PA 19044  
800-959-0307  
215-443-0330  
Fax: 215-443-0394  
www.atiguys.com

## Atlantic Satellite Communications Inc

240 Pegasus Ave  
Northvale, NJ 07647  
201-784-0555  
Fax: 201-784-2892  
www.atlanticsatellite.com

## Audi-Cord Corp

1845 W Hovey Ave  
Normal, IL 61761  
309-452-9461  
Fax: 309-452-0893

## Audio Accessories Inc

PO Box 360  
Marlow, NH 03456  
603-446-3335  
Fax: 603-446-7543  
www.patchbays.com

## Audio Precision

PO Box 2209  
Beaverton, OR 97075-2209  
800-231-7350  
503-627-0832  
Fax: 503-641-8906  
www.audioprecision.com

# Manufacturers/Dealers

## **Audio-Technica US Inc**

1221 Commerce Drive  
Stow, OH 44224  
330-686-2600  
Fax: 330-686-0719  
www.audio-technica.com

## **Audiolab Electronics Inc**

5831 Rosebud Lane Bldg C  
Sacramento, CA 95841  
800-624-1903  
916-348-0200  
Fax: 916-348-1512  
www.audiolabelectronics.com

## **Auratone Corp**

PO Box 180698  
Coronado, CA 92178-0698  
619-297-2820  
Fax: 619-296-8734

## **auto.des.sys**

2011 Riverside Dr  
Columbus, OH 43221  
614-488-8838  
Fax: 614-488-0848  
www.formz.com

## **Autogram Corp**

1500 Capital Ave  
Plano, TX 75074  
800-327-6901  
972-424-8585  
Fax: 972-423-6334  
www.autogramcorp.com

## **Automedia Inc**

300 Buckelew Avenue Suite 201  
Jamesburg, NJ 08831  
888-MASK-IT-8  
732-605-0881  
Fax: 732-605-0885  
www.automedi.com

## **Automedia Ltd**

PO Box 17043  
Tel Aviv, 61170 Israel  
+972-3-9220444  
Fax: +972 39220355  
www.automedi.com

## **AutoPatch**

2416 Cheney-Spokane Rd  
Box 350  
Cheney, WA 99004-0350  
800-622-0246  
509-235-2636  
Fax: 509-235-2646  
www.autopatch.com

## **AVerMedia Technologies Inc**

47923A Warm Springs Boulevard  
Fremont, CA 94539  
800-863-2332  
510-770-9899  
Fax: 510-770-9901  
www.aver.com

## **Avica**

3816 Burbank Blvd  
Burbank, CA 91505  
818-846-0589  
Fax: 818-846-0175  
avicatech.com

## **Avid Technology Inc**

One Park West  
Tewksbury, MA 01876-1282  
800-949-AVID  
978-640-6789  
Fax: 978-851-0418  
www.avid.com

## **Avitech International Corp.**

23405 NE Union Hill Rd  
Redmond, WA 98053  
425-836-8970  
Fax: 425-836-8976  
*See our products in the following categories: Computers & Peripherals (p.32)*

## **Avitel Electronics Ltd**

#6 Croydon Rd/Indus Estate  
Kent, BR3 4BY UK  
+44(0)1816 55-3200  
Fax: +44(0)1816 55-0509  
www.avitel.co.uk

## **Avitel Inc**

3678 W 2100 S  
Salt Lake City, UT 84120  
801-977-9553  
Fax: 801-977-9674

## **Avocet Instruments Inc**

7795 Cirrus Dr  
Beaverton, OR 97008  
800-443-0728  
503-671-9424  
Fax: 503-671-9626  
www.avocetinst.com

## **AVR Communications Ltd**

2615 126th Ave SW  
Calgary, AB T2W 3V5 Canada  
403-251-0707  
Fax: 403-281-2695  
www.avr-ca.com

## **Avtek Systems**

3 Fox Run  
Sterling, MA 01564  
800-423-0913  
978-422-3466  
Fax: 978-422-5258  
www.pspdigital.co.uk

## **Axon Digital Design BV**

Handelsweg 5  
NL-5071 NT Udenhout  
The Netherlands  
+31(0)13511 6666  
Fax: +31(0)13511 4151  
www.axon.nl

## **Azden Corp**

147 New Hyde Park Rd  
Franklin Square, NY 11010  
516-328-7500  
Fax: 516-328-7506  
www.azdencorp.com

## **B**

## **B&H Photo-Video-Pro Audio**

420 Ninth Ave  
New York, NY 10001  
800-947-9928  
212-444-5028  
Fax: 212-444-5001  
www.bhphotovideo.com

## **BAF Communications Corp**

314 Northstar Court  
Sanford, FL 32771  
800-633-8223  
407-324-8250  
Fax: 407-324-7860  
www.bafcom.com

## **BAL Broadcast Ltd**

Hazell Way/Nuneaton  
Warwickshire, CV10 7PQ UK  
+44(0)1203-375827  
Fax: +44(0)1203-642375

## **Band Pro Film/Video**

3403 W Pacific Ave  
Burbank, CA 91505  
888-BANDPRO  
818-841-9655  
Fax: 818-841-7649

## **BARCO**

3240 Town Point Drive  
Kennesaw, GA 30144  
770-590-3600  
Fax: 770-590-3610  
www.barco.com

## **BASF Magnetics Corporation**

25050 Ave Kearny #102  
Bedford, MA 01730  
888-295-5551  
805-295-5551  
Fax: 888-295-5554  
www.emtec-usa.com

## **BBC Resources - Projects**

Room CG11 80 Wood Lane  
London, W12 0TT UK  
+44 8700 100 883  
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Fax: +44 181 576 1272  
www.bbcresources.com

## **Beck Associates Inc**

16024 Central Commerce Drive  
Pflugerville, TX 78660-2001  
888-422-8600  
512-252-7555  
Fax: 512-670-4390  
www.becktv.com

## **Belar Electronics Lab Inc**

119 Lancaster Ave (Box 76)  
Devon, PA 19333  
610-687-5550  
Fax: 610-687-2686  
www.belar.com

## **Belden Wire & Cable Company**

2200 US Highway 27 S  
Richmond, IN 47374-1980  
800-BELDEN1  
765-983-5200  
Fax: 765-983-5294  
www.belden.com

## **Benchmark Media Systems Inc**

5925 Court St Rd  
Syracuse, NY 13206-1707  
800-262-4675  
315-437-6300  
Fax: 315-437-8119  
www.benchmarkmedia.com

*See our products in the following categories: Audio Accessories (p.14); Audio Routing & Distribution (p.18)*

## **Berkeley Nucleonics Corp (BNC)**

3060 Kerner Blvd #2  
San Rafael, CA 94901-5418  
415-453-9955  
Fax: 415-453-9956  
www.berkeleynucleonics.com

# Manufacturers/Dealers

## Bescor Video

244 Route 109  
Farmingdale, NY 11735  
800-645-7182  
516-420-1717  
Fax: 516-420-0106

## Best Power/North Star Technical Services

745 Harrison Street  
Hollywood, FL 33019  
800-842-1671  
954-921-5868  
Fax: 954-927-0501  
www.powrups.com/nstpower

## Bext Inc

1045 10th Ave  
San Diego, CA 92101  
619-239-8462  
Fax: 619-239-8474  
www.bext.com

## beyerdynamic

56 Central Ave  
Farmingdale, NY 11735  
800-293-4463  
516-293-3200  
Fax: 516-293-3288  
www.beyerdynamic.com

## Bi-Tronics Inc

10 Skyline Drive  
Hawthorne, NY 10532  
800-666-0996  
914-592-1800  
Fax: 800-569-4244  
www.bi-tronics.com

## Biomechanics Inc

200 North Cobb Parkway  
Suite 142  
Marietta, GA 30062  
770-424-5082  
Fax: 770-424-6621  
www.biomechanics-inc.com

## BlueLine Technology Inc

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www.BlueLineTech.com

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(p.42)*

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## **Broadcast Microwave Services**

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800-669-9667  
619-560-8601  
Fax: 619-560-1637  
www.bms-inc.com

*See our products in the following categories: Microwave, Fiber Optic & Telco Equipment (p.46)*

## **Broadcast Richmond**

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Fax: 765-966-5505  
www.broadcast-richmond.com

## **Broadcast Software Solutions**

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## ComStream Corp

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Fax: 619-657-5404  
www.comstream.com

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Fax: 407-892-0994  
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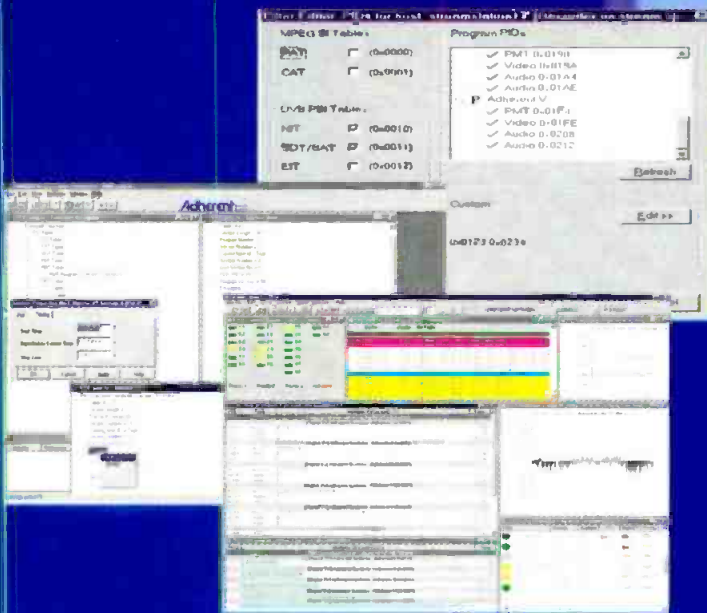
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*See our products in the following categories: Audio Routing & Distribution (p.18); Character Generators & Promoters (p.30); Microwave, Fiber Optic & Telco Equipment (p.46); Test & Measurement Equipment (p.66); Video Routing & Distribution (p.78)*

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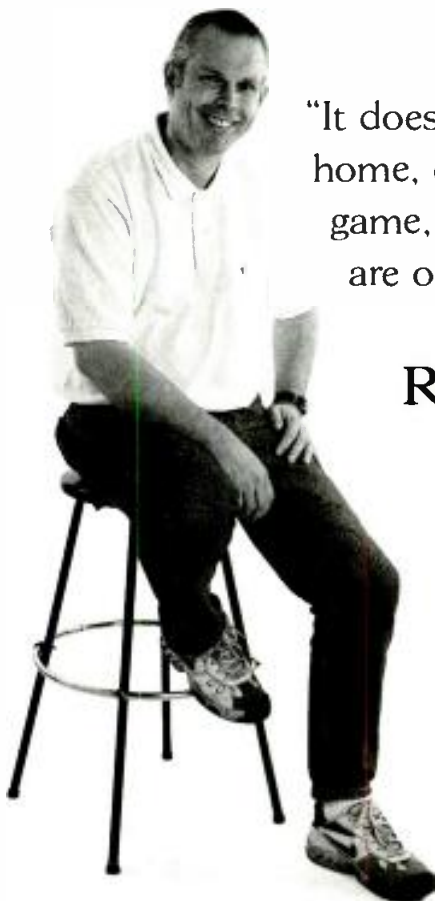
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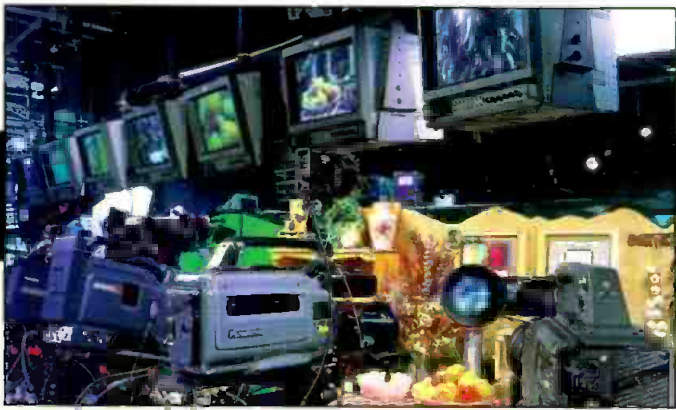
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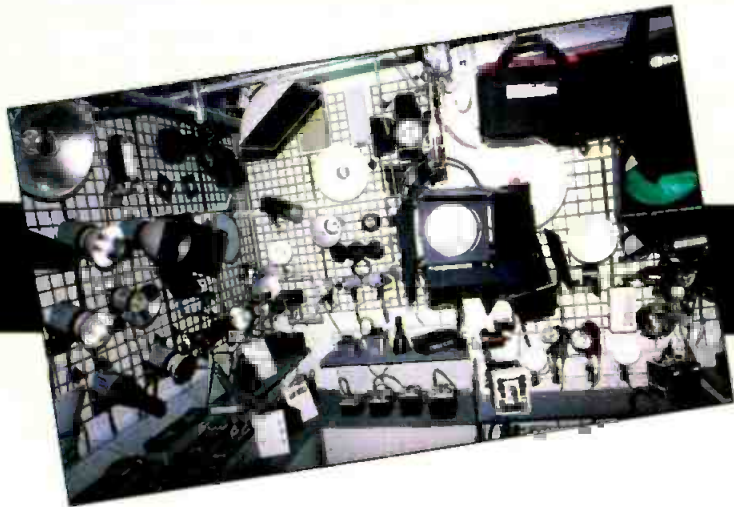
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