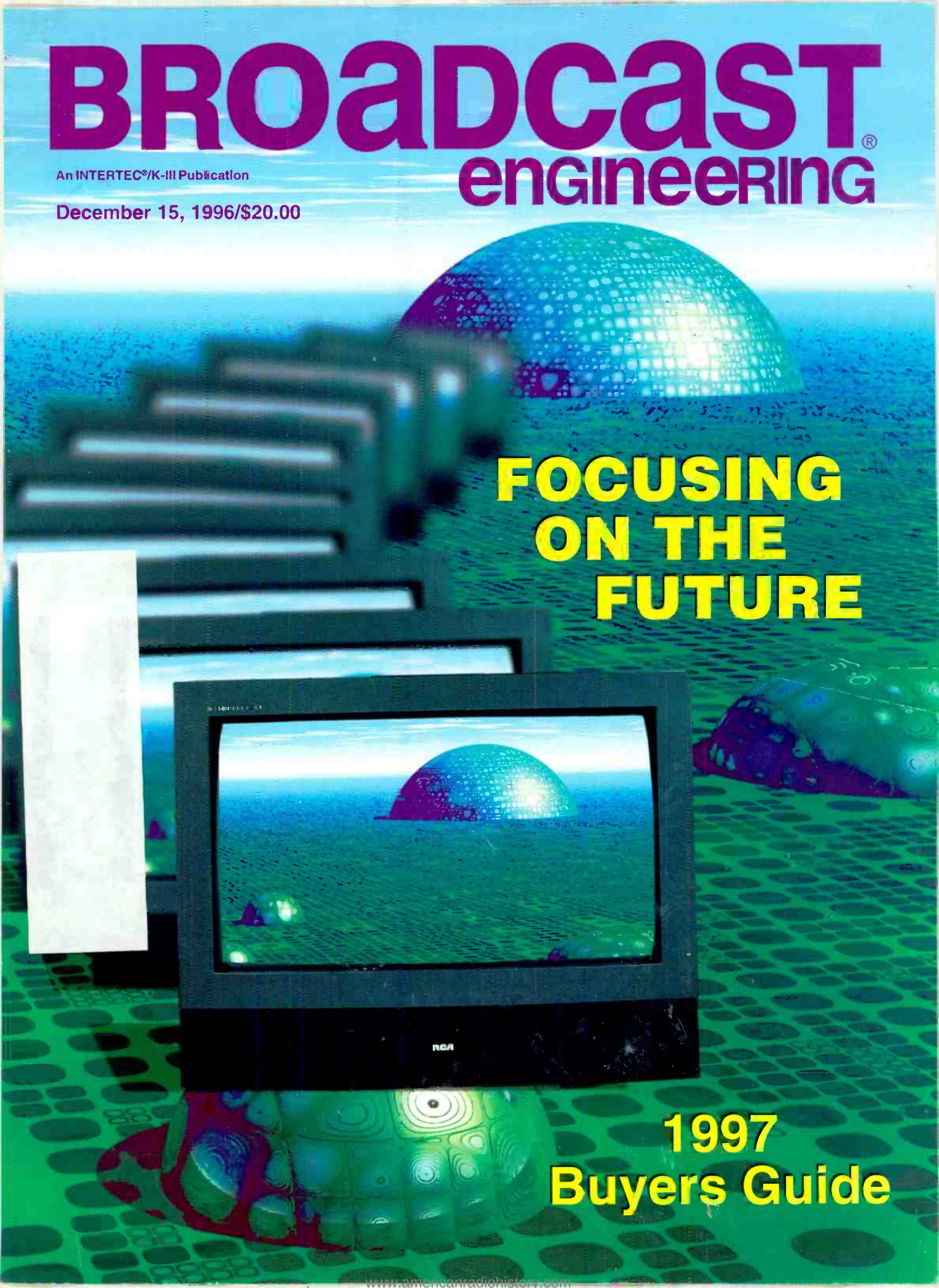


BROADCAST[®] engineering

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December 15, 1996/\$20.00



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**1997
Buyers Guide**

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SP-8 – The Console for Local News

While Wheatstone is best known for its major market clients, we have tailored this console specifically for the local facility. It has everything operators need, yet it's straightforward and easy to operate.

The SP-8's fast mix-minus system allows individual foldbacks to talent, anchors and technical crew to keep your live programming moving smoothly. Four auxiliary pre or post send controls provide even more powerful foldback options. Its channel group muting feature lets you energize and de-energize banks of channels with the push of a single button, so break/live transitions become error free. A sophisticated internal logic system has bus assignment dependent monitor mutes to prevent accidental studio interruption during live seg-

ments. The console has plenty of monitoring capability and can feed a control room system as well as multiple studio outputs—perfect for separate morning and evening setups.

The SP-8 has all the flexibility of its larger predecessors. You have a selection of mono mic/line modules, dual mic modules (for studio one and studio two), and stereo input modules. You can even get this console with a preselector overbridge, to increase its input capacity eight-fold. It's available in countertop, through counter, or furniture stand versions to fit any architectural theme.

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HIGHER THINKING

Welcome to the 1997 *Broadcast Engineering Buyers Guide*. This year's edition contains the latest information from hundreds of manufacturers and the products and services you need. Whether it's help in locating a replacement part or building a whole new facility, the answers to your questions are just a page away.



New for this year is the *Instant Index*. The *Instant Index* allows you to quickly locate companies that provide the specific product or service you need. The index lists products and services by their generic name. You no longer have to guess as to the category a specific product will be listed. In most cases, several entries are provided for those products that are known by several terms.

Need information about transmitters? Looking up "Transmitters/Translators" in the *Instant Index* shows you that product category begins on p. 48. There you'll find 64 companies that can help you with along with their phone numbers. Need help with building that new TV station or edit suite? Look up "Consultants/Engineering" in the *Index*. There you will find the reference to p. 22 where you will see 61 companies that can assist you. The *Instant Index* is your short-cut to finding the companies that have what you need.

If you need address information, consult the manufacturer directory, which begins on p. 55. Anyone who's anyone is listed there.

To help you identify this issue's advertisers, their listings are shown in red. The advertiser index is located on p. 108.

My research shows readers refer to the *BE Buyers Guide* all year long. But don't worry, if you wear out your copy, I can probably get you another one.

Brad Dick

Brad Dick, editor

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ON THE COVER: Although the song says, "Tomorrow is always a day away," technical managers don't have the luxury of waiting. The planning for it never stops. Maintaining a competitive edge requires a knowledge of today's technology and clues to what's just over the horizon. This month's cover illustrates the upcoming transition from an analog, 4:3 NTSC world, to the all-digital, 16:9 HDTV environment of tomorrow. Cover design by *BE* art director, Stephanie Masterson.

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Product Directory

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Acoustic Sciences Corp	541-343-9727
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Acoustical Solutions	804-346-8350
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illbruck/Sonex Acoustical Div	612-520-3620
Industrial Acoustics Co	718-931-8000
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Photomart Cine-Video Inc	407-851-2780
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Sonex/illbruck Inc	612-520-3620
Systems Development Group Inc	301-846-7990
USAFoam	317-842-2600
Wave:Space Inc	714-770-6601
Wenger Corp	507-455-4100

AUDIO ACCESSORIES

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Comprehensive Video Group	201-229-0025
Denon Electronics	201-575-7810
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Furman Sound Inc	415-927-1225
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Henry Engineering	818-355-3656
Marantz Professional	+31(0)40-2734589
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Quality Video Supply	201-229-9800
Sescom Inc	702-565-3400
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Brainstorm Electronics	213-845-1155
Broadcast Equipment & Parts	561-790-4192
BSW-Broadcast Supply Worldwide	206-565-2301
CCS Europe GmbH	+49-811-5516-0
C4 Audio Systems	+49-5331-76985
Circuit Research Labs Inc	602-438-0888

COMREX

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Denecke Inc	818-766-3525
Digigram	+33 7652.4747
Dolby Laboratories Inc	415-558-0200
Ednet	415-274-8800
Evertz Microsystems Ltd	905-335-3700
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Muscam USA	908-739-5600
Nagra Kudelski SA	+41(0)21 732-0101
NVision Inc	916-265-1000
Plasmec Systems Ltd	+44-1252 721236
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BAF Communications Corp	407-324-8250
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Cellcast Communication Products Inc	501-750-0277
Continental Electronics Corp	214-381-7161
Cooper Sound Systems	714-248-1361
Crookwood	+44-1628-528-026
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Dav Tronics	604-255-2200
DDA	616-695-4750
Digital Audio Research Ltd	+44(0)1372 742848
DOD Electronics	801-566-8800
Doremi Labs Inc	213-874-3411
D&R Electronica bv	+31(0)294 418014
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Electric Works Corp	817-625-9761
Electro-Voice Inc	616-695-6831
Euphonix Inc	415-885-0400
Fidelipac Corp	609-235-3900
Focusrite Audio Eng Ltd	+44(0)1628 819456
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Fostex Corp	+81-425-46-4974
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Graham-Patten Systems	916-273-8412
Group One Ltd	516-249-3662
Hallikainen & Friends Inc	805-541-0200
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Ivie Technologies Inc	801-224-1800
JK Audio	815-786-2929
J-Lab	310-457-4090
JL Cooper Electronics	310-306-4131
JT Communications	352-236-0744
Kaitronics Corp	415-697-9102
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Lectrosonics Inc	505-892-4501
Logitek	713-782-4592
LPB Inc	610-644-1123
Mackie Designs Inc	206-487-4333
The Management	817-625-9761
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Media Touch Systems Inc	603-893-5104
MicroAudio Inc	503-293-0562
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OpTex	+44(0)181-4412199
Otari Corp	415-341-5900
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QMI	508-435-3666
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Ram Broadcast Systems	847-382-7575
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Samson Technologies Corp	516-364-2244
Sascom Marketing Group	905-469-8080
Scantex Labs Inc	514-626-8943
Schafer World Communications	540-783-2000
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Siemens Audio Co	212-949-2324
Solid State Logic Inc	212-315-1111
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Sonic Solutions	415-893-8000
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Sonosax SA	+41(0)21 806-0202
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Sound Designers Studio	212-757-5679
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Daniel Weiss Engineering Ltd	+41-1-940-2006
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Beck Associates Inc	512-388-9777

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Biamp Systems	503-641-7287
Bogen Communications Inc	201-934-8500
Brainstorm Electronics	213-845-1155
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BSW-Broadcast Supply Worldwide	206-565-2301
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Chevin Research Ltd	+44-1943-466-060
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Davicom Technologies	819-370-4343
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Dynaudio Acoustics UK Ltd	+44(0)171 4033808
EDCOR Electronics	505-887-6790
Electro-Voice Inc	616-695-6831
EuroSon America Inc	516-273-4200
FM Acoustics Ltd	+41-1-725-7777
Focusrite Audio Eng Ltd	+44(0)1628 819456
Fuller Manufacturing Inc	818-500-0116
Furman Sound Inc	415-927-1225
Gentner Communications Corp	801-975-7200
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JBL Professional	818-894-8850
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Target Technology Inc	916-639-2102
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Telect Inc	509-926-6000
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Gabriel Electronics Inc 207-883-5161
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EWA-Marine - Ste-Man Inc. 805-520-4768
FM Systems Inc 714-979-3355
Force Inc 540-382-0642
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Hitachi Denshi America Ltd 310-328-6116
Innovation Optics 310-394-5510
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JVC +81 426-60-7560
K&H Products Ltd 802-442-8171
Lee Filters 818-238-1220
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Marshall Electronics Optical Systems 310-390-6608
MilesTek Inc 817-455-7444
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Nemal Electronics Int'l 305-899-0900
Newark Electronics 800-298-3133
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Nytone Inc 801-973-4090
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PERROTT 'The Battery People' 703-532-0700
Philips Broadcast Television Systems +49(0)6155-870-0
Photomart Cine-Video Inc 407-851-2780
Radamec Broadcast Systems Ltd +44(0)1932-561181
Radamec Inc 918-518-0685
Rapco International 800-467-2726
Rathbone Energy Systems Inc 770-975-8052
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Sony Business & Professional 201-930-6576
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XAOS Tools 415-538-7000
Yamashita Engineering Mfg Inc +81 440462 288883

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E C Mitchell Co Inc 508-774-1191
Products International 301-587-7824
Quality Video Supply 201-229-9800
Sony Electronics 201-930-7834
Techni-Tool Inc 610-825-4990
TECH-SA-PORT 412-661-1620
Tek Media Supply Co 847-677-3000

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Continental Electronics Corp 214-381-7161
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HES Electronics +32 (2) 466-8180
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Leitch Inc 757-548-2300
maney-logic 608-277-8001
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Tally Display Corp 914-365-6393
Vistek Electronics Ltd +44(0)1628 531221
Vortex Communications +44(0)1815 792743
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APS Professional Video Products 718-628-6800
ASACA/ShibaSoku 310-827-7144
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FSR Inc 201-785-4347
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LT 425D Digital Component Signal Generator

A precision test source for digital-component facilities, the LT 425D offers one parallel and four serial outputs (one digital black.) AES/EBU digital audio may be embedded in the serial data stream, but is also available as a separate output. Test signals are tailored to digital operations and include the SDI checkfield and a programmable moving marker and switched stills for compression tests. A programmable 20-character source ID, calendar and clock rounds out the full list of operating options.

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LV 5100D Component Digital and Analog Combination Waveform Monitor & Vectorscope

Designed specifically for use with mixed digital and analog component video systems, the LV 5100D's multi-functional design provides ease of use for operations staff as well as detailed signal analysis features for engineering personnel. Two serial data inputs facilitate monitoring and testing the digital video side while one analog (3 wire) input permits monitoring and testing the analog side. Stereo analog audio monitoring is also provided. This micro-processor controlled instrument provides the utmost in flexibility — from component analog video tests to EDH monitoring and viewing detailed HEX data on the digital side — the LV 5100D represents the state-of-the-art in video testing technology.

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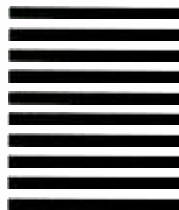
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Models 5222/5212

NTSC/PAL Waveform Monitor and Vectorscope

Model 5222 NTSC/PAL/SECAM Waveform Monitor's eight channel operation in A/B groups of four allows comparisons in component operations, and syncs from CH1 or CH4 in either group plus external reference. Component operations use overlay and parade waveforms with timing (howtie) display. Extensive menu control of setups with extra features such as 0.5% cursors, picture display, dual filter and GBR, YGBR. The NTSC/PAL Vectorscope, Model 5212's overlay display of 3 (actually 4) vector sets simplifies phase matching, and semi-automatic systems speed high resolution readout of DG or DP. Mode keys select VECTOR, DG, DP or X-Y, the latter for stereo phase/level monitoring. Remote control via the 5222 with unblanking for vector line select.

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Model 408/408NPS

NTSC and NTSC/PAL/SECAM Test/Sync Generators

Microprocessor control and digital synthesis give the 408 and 408NPS extreme flexibility in test signal programming of both video and RF outputs. Signals available simultaneously include composite video, Y/C, Y/R Y/B-Y, GBR, full sync generator outputs, audio test tones (400 Hz and 1 kHz) and modulated output from 30 to 900 MHz. Multiple test patterns include wide and narrow video sweeps and multiburst with last burst variable to 15 MHz. Signal modifiers include polarity inversion, superimposed circle and moving marker as well as on/off control of burst, sync, luminance, chroma, R, B and G. Genlock and remote control are standard. GPIB is available as an option. The 408 operates in the NTSC system while the 408NPS extends all operating features into PAL and SECAM as well.

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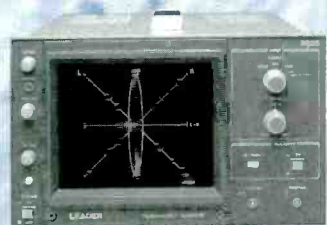


Models 5864A/5854/413S - EFP/ENG Instruments

Designed for EFP and ENG (Electronic Field Production and Electronic News Gathering), this group of instruments adds full monitoring means to field operations. Model 5864A Waveform Monitor handles two channels for camera, camcorder or video link operations. Controls are simplified to include H Mag (X1-X5), 2H or 2V DISPLAY, ELAT or LUM FILTER, gain 1V or 2.25V full scale and A/B INPUT select. Model 5854, a two-channel vectorscope, provides precision checkout of encoder alignment, camera balance and genlock phase. Selectors

pick A or B inputs for display or phase reference. Gain is fixed or variable, and includes a 5X gain boost for balance checks. Model 413S provides a reference source of video and audio for system checks, tape leaders and source ID. Signals include 100% flat white field, EIA, SMPTE and SNG color bars. The latter is designed for satellite operations. An XLR connector feeds balanced audio at 400 or 1000 Hz at 0 dB. Of particular value is a programmable character source ID that may be placed at two on-screen locations.

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Model 5835 Stereo Audio Monitor

Stereo audio operations require tight control of relative L and R amplitude and phase to preserve directional response and to prevent serious degradation of the mono (L+R) signal in the event of accidental inversion of one audio feed. The 5835 provides the means of monitoring amplitudes and relative phase and will set off an alarm in the event of a significant, prolonged L-R component resulting from inadvertent polarity inversion. The CRT is blanked for prolonged silent intervals to prevent CRT spot burn.

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Model 5836A Surround-Sound Monitor

A multi-channel audio monitor to meet the monitoring needs of surround-sound productions, Model 5836A displays the surround-sound image in several formats and accepts up to five channels for left/center/right/surround, and left/center/right/left-surround/right-surround systems. In addition, an X-Y (Lissajous) phase display may be selected between any pair of channels.

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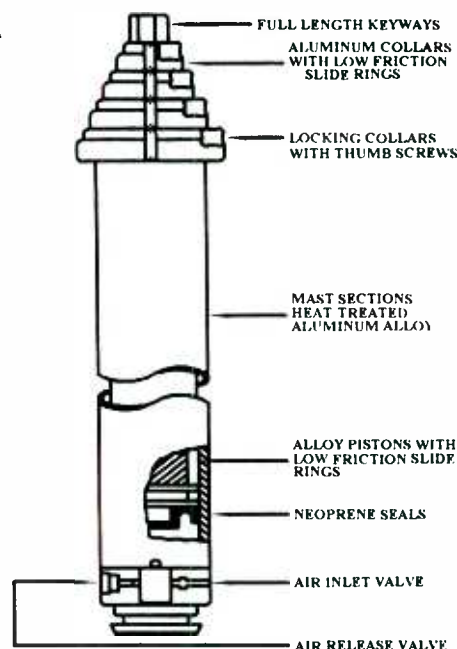
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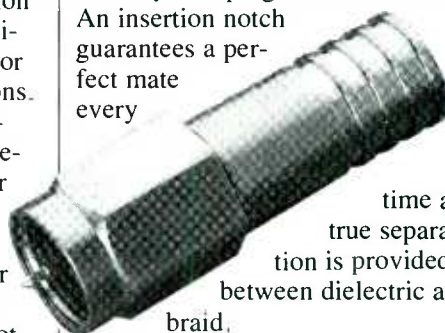
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972-869-0200
415-365-3944
+34 1 686-1300
412-429-2000
602-264-7275
718-628-6800
718-628-6800
603-472-2297
213-845-1155
818-980-9891
518-449-7213
808-488-1273
310-885-4200
315-452-5000
+44(0)1207-529-444
+31(0)26-3648-966
757-627-3502
612-949-3700
503-671-9424
403-251-0707
201-833-8777
+61 3 9587 0033
617-444-0191
407-324-8250
714-756-0800
818-841-9655
617-935-3920
314-638-3800
+44(0)171 5381427
818-841-5051
212-444-5036
213-466-8211
914-961-2004
301-231-7800
213-845-1155
561-790-4192
601-857-8573
305-599-2112
818-551-5858
352-622-7700
206-565-2301
516-678-4414
604-942-1001
414-435-5353
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412-351-1700
818-766-3715
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407-851-3456

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Comprehensive Video Group
Continental Electronics Corp
Data Security Inc
Garner Industries
Image Video
Photomart Cine-Video Inc
PRECO (Broadcast Systems)
Quality Video Supply

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916-348-0200
201-229-0025
214-381-7161
402-434-5959
402-434-9100
416-438-3940
407-851-2780
+44-181-644-4447
201-229-9800

SANIX

Sanix Corp

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Taber Mfg & Engineering Co	619-592-7861
Techni-Tool Inc	610-825-4990
Tek Media Supply Co	847-677-3000
Videomagnetics Inc	719-579-6643
Weircliffe International Ltd	+44(0)1392 72132
Wide Range Electronics	314-230-7178

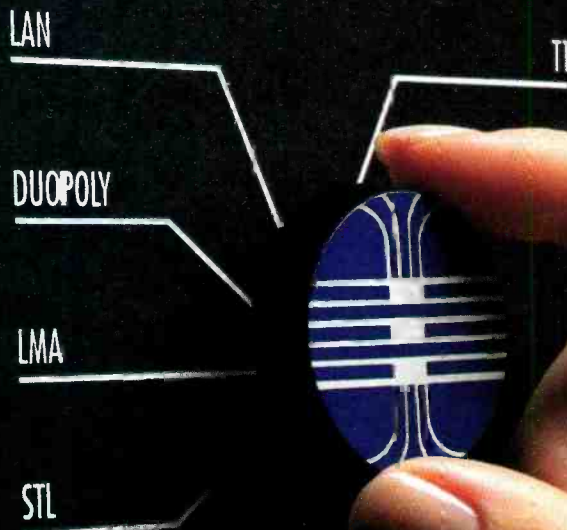
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Allen Avionics Inc	516-248-8080
Applied Research & Technology	716-436-2720
APS Professional Video Products	718-628-6800
ASC Audio Video	818-843-7004
Avitel Electronics Ltd	+44(0)181655-3200
Avitel Inc	801-977-9553
Axon Digital Design BV	+31(0)13511 4500
BAL Broadcast Ltd	+44(0)1203-375827
Broadcast Video Systems Ltd	905-764-1584
Complex Corp	316-342-7743
Chyron Corp	516-845-2026
DT Electronics Ltd	+44(0)1203-466500
DTL Broadcast Ltd	+44(0)181-813-5200
Faraday Technology Ltd	+44(0)1782661-501
For-A Co Ltd	+81-3-3446-3936
Image Video	416-438-3940
Intelvideo Inc	203-348-9229
Matthey Electronics	+44-1782-524919
Nova Systems Inc	860-693-0238
NVision Inc	916-265-1000
Omicron Video	818-700-0742
Snell & Wilcox	408-734-1688
Tekniche Inc	201-784-2288
Tekniche Ltd	+44(0)1483-728006
Tektronix Video & Network Div	800-547-8949
Television Equipment - Matthey	914-763-8893
Textonix/Grass Valley Products	916-478-3000
Trilogy Broadcast Ltd	+44(0)1264-332033
Wiltronix Inc	301-258-7676

DESKTOP VIDEO SYSTEMS

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Advanced Digital Imaging	714-779-7772
Adwar Video	516-349-1800
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Brainstorm Electronics	213-845-1155
Burst Electronics Inc	505-898-1455
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Compix Media	213-487-8222
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Digital Graphix	201-845-8900
Digital Processing Systems/DPS	606-371-5533
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Dubner International Inc	201-664-6434
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Ensemble Designs	916-478-1830
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For-A Co Ltd	+81-3-3446-3936
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Interlace Engineering Corp	416-510-1051
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 Sony Electronics 201-930-7834
 Sun Microsystems/Interactive Services 415-969-1300
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 Tel-Test Inc 352-374-4503
 Textronix/Grass Valley Products 916-478-3000
 Toshiba Corp +81(0)33457-3244
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 Broadcast Electronics Inc 217-224-9600
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 Register Data Systems 912-987-2501
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 Schafer World Communications 540-783-2000
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 Spectral Inc 206-487-2931
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 Target Technology Inc 916-639-2102
 Telect Inc 509-926-6000
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 TASCAM/Teac Profession 213-726-0303
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 CoarcVideo 518-672-4451
 Editcomm 416-864-1780
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 Sony Electronics 201-930-7834
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 Discreet Logic 514-272-0525

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 Sony Electronics 408-432-1600
 Spencer Technologies 818-840-0907
 Tektronix Video & Network Div 800-547-8949
 Textronix/Grass Valley Products 916-478-3000
 Toshiba Corp +81(0)33457-3244
 VGV Inc (Video Gainesville) 352-372-0270
 VideoFusion Ltd Partnership 419-891-1090
Videotek Inc 610-327-2292
 Wavefront Technologies 805-962-8117
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Dubner International Inc 201-664-6434
 EDX Engineering Inc 541-345-0019
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 Imagine Products Inc 317-843-0706
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 ScheduALL by VisuAll Inc 305-651-6241
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Viagrafix - Design CAD Division 918-825-7555
V-Soft Communications 319-266-8402
Wind River Broadcast Center 970-669-3442
Xymox Systems 818-786-8801

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Meret Communications 619-558-3960
MSC Electronics Ltd 905-731-9500
NTP Elektronik A/S +45 4453 1188



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Dawn Satellite 810-391-9200
Fiber Options Inc 516-567-8320
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L-W Athena Inc 805-522-3284
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Ziehl Electronic Service 716-772-7800

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W Clark & Associates Ltd 309-837-2244
Dawn Satellite 810-391-9200



ESE 310-322-2136

Geneva Aviation 206-353-7400
Horita 714-489-0240
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APS Professional Video Products 718-628-6800
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BCD Associates 405-843-4574
Chyron Corp 516-845-2026
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Mainframe Computer Graphics Ltd 416-391-4500
Matrox Electronic Systems 514-685-2630
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Thomson Broadcast 201-569-1650
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VAS Group Inc 818-843-4831

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When it comes to selecting the right combination of power and performance for your UHF TV transmitter, nobody gives you a greater choice than Thomson Tubes Electronics. Our Diacrode® range (TH 610 and TH 680) takes tetrode performance to new heights, offering peak output power from 10 to 80 kW. Advanced features include minimum RF losses in the tube.

The TH 760, featuring optimised IOT design and patented Pyrobloc® grid technology, meets your power needs in common and vision-only amplification from 40 to 60 kW, respectively. Our UHF tetrodes range from 1.1 to an impressive 44 kW, their high-efficiency design makes them true leaders in energy and cost savings. What's more, all the tubes have been qualified for tomorrow's digital broadcast standards.



THE CHOICE

As part of our comprehensive approach to increasing your broadcast performance, we also design and manufacture fully matched cavities for each of our tubes. Of course when you choose our tubes, you get more than just outstanding product performance and lifetime... you get the service, support and innovation of a global leader in UHF tube technology.

Wherever you are, our engineers and technicians are at your service to help you select, install and maintain the tubes you operate in your transmitters.

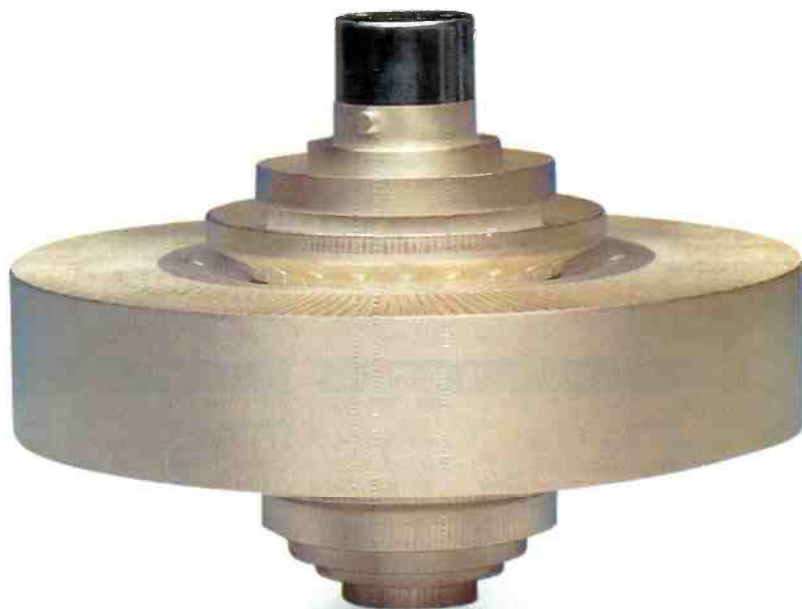
And you benefit from rapid, continuous access to the spares you need.

Want real choice in today's most advanced UHF power grid tubes?

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CE OF POWER

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Product Directory

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Jampro Antennas Inc
 Micro Communications
 Nuova ELIT
 Stainless Inc
 Thomcast

+39-763-316231
916-383-1177
 603-624-4351
 +39 2 3340-2992
 215-699-4871
 +331 3490-3100

Trilogy Broadcast Ltd
 Vega Wireless/Mark IV
 Vortex Communications
 Ward-Beck Systems Ltd
 Wheatstone Corp
 Wiltronix Inc

+44(0)1264-332033
 818-442-0782
 +44(0)1815 792743
 416-438-6550
 315-452-5000
 301-258-7676

Elmo Mfg Corp
 F Prime Optics
 FSR Inc
 Fujinon Inc
 Lee Filters
 Lee Filters Ltd
 Blaine Lentz Lighting Assoc
 Marshall Electronics Optical Systems
 MSC Electronics Ltd
 L E Nelson Sales Corp
 Nikon Inc
 OpTex
 Photomart Cine-Video Inc
 Rosco Labs Inc
 Sony Electronics
 Tamron Industries Inc
 Tiffen Mfg Corp
 Tinsley Laboratories, Schwem Div
 Vicon Industries Inc
 Visual Methods Inc

516-775-3200
 516-543-0207
 201-785-4347
 201-633-5600
 818-238-1220
 +44(0)1264-66245
 818-887-7148
 310-390-6608
 905-731-9500
 702-367-3656
 908-758-0308
 +44(0)181-4412199
 407-851-2780
 914-937-1300
 201-930-7834
 516-484-8880
 516-273-2500
 510-222-8110
 516-293-2200
 201-666-3950

INTERCOM/IFB PRODUCTS, HEADSETS

AEQ SA
 AKG Acoustics
 Harman Pro North America
 Ampco Sound Lab (ASL)
 Anchor Communication/Porta-Com
 APS Professional Video Products
 Audioarts Engineering
 Audiotronics Inc
 Barbizon Light
 beyerdynamic
 Bogen Communications Inc
 Brainstorm Electronics
 Broadcast Devices
 Broadcast Equipment & Parts
 Cabletek Electronics Ltd
 Canford Audio
 Chyron Corp
 David Clark Co Inc
Clear-Com Systems

+34 1 686-1300
 615-399-2199
 +31(0)30-2414500
 310-533-5984
 718-628-6800
 315-452-5000
 901-362-1350
 617-935-3920
 516-293-3200
 201-934-8500
 213-845-1155
 914-737-5032
 561-790-4192
 604-942-1001
 +44-191-4170057
 516-845-2026
 508-751-5800
510-527-6666

INTERNET SOFTWARE

AccuWeather Inc
 Alias/Wavefront
 W Clark & Associates Ltd
 Convergent Media Systems
 DATAMAX Digital Systems
 Display Systems Int'l Inc
 Ednet
 IBM
 Nesbit Systems Inc
 Norpak Corp
Ogenic On Air Systems
 Tektronix NewStar
 Tektronix Video & Network Div
 XAOS Tools

814-234-9601
 416-362-9181
 309-837-2244
 404-262-1555
 714-586-9907
 306-934-6884
 415-274-8800
 914-642-5886
 609-799-5071
 613-592-4164
619 479 1711
 608-274-8686
 800-547-8949
 415-538-7000

KEYERS, COMPOSITING SYSTEMS

Alpha Image Ltd
 APS Professional Video Products
 Broadcast Video Systems Ltd
 Chyron Corp
 Compix Media
 Comtech Antenna Systems Inc
 Discreet Logic
 Display Systems Int'l Inc
 DLE Inc
 DT Electronics Ltd
 Ensemble Designs
 For-A Co Ltd
 GP Enterprises Inc
 Image Video
 Interface Engineering Corp
 J-Lab
 JVC
 Mainframe Computer Graphics Ltd
 MicroVideo Ltd
 Microvideo USA Inc
 PE Photon
 Play Incorporated
 Pro-Bel Ltd
Quantel Inc
 Questech Ltd
 Ross Video Ltd
 Sierra Video Systems Inc
 Snell & Wilcox
 SFTimage
 Sony Electronics
 Sony Electronics
 Tektronix Video & Network Div
 Tel-Test Inc
 Thomson Broadcast
 ULTIMATTE Corp
 VGV Inc (Video Gainesville)
Videotek Inc
 Videotex Systems
Videssence
 Vistek Electronics Ltd
 Vortex Communications
 Wiltronix Inc

+44(0)1635 521939
 718-628-6800
 905-764-1584
 516-845-2026
 213-487-8222
 407-892-6111
 514-272-0525
 306-934-6884
 508-947-6801
 +44(0)1203-466500
 916-478-1830
 +81-3-3446-3936
 512-749-7026
 416-438-3940
 416-510-1051
 310-457-4090
 +81 426-60-7560
 416-391-4500
 +44(0)1223 834119
 203-393-0598
 408-261-3613
 916-851-0800
 +44(0)1734 866123
203-656-3100
 +44(0)1734-787209
 613-652-4886
 916-478-1000
 +44(0)1730 821188
 818-365-1359
 408-432-1600
 201-930-7834
 800-547-8949
 352-374-4503
 201-569-1650
 818-993-8007
 352-372-0270
610-327-2292
 972-231-9200
415-579-7577
 +44(0)1628 531221
 +44(0)1815 792743
 301-258-7676

LENSES, ACCESSORIES

Adwar Video
 Aerial Films Inc
 Alpine Optics Inc
 Angenieux SA
 APS Professional Video Products
 Arriflex Corp
 Avtech Systems Inc
 Barbizon Light
 Birns & Sawyer Inc
 Canon USA Inc
 Carter Cartop Mfg Co
 Century Precision Optics
 Cinekinetic
 Communications Marketing & Consulting
 CSI Camera Support International

516-349-1800
 201-984-6680
 954-344-9871
 +33 7730-4210
 718-628-6800
 914-353-1400
 201-833-8777
 617-935-3920
 213-466-8211
 201-816-2900
 503-622-4477
 818-766-3715
 +61(9) 459-3690
 914-356-5300
 818-887-5430

LIBRARIES-SOUND AND IMAGE

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 Dimension Music & Sound Effects
 Energetic Music Inc
 Energy Film Library
 FirstCom Music
 Gefen Systems
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 Halland Broadcast Services
 Henry Engineering
 Image Ideas Inc
 Imagine Products Inc
 JT Communications
 Manhattan Production Music
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 Pioneer New Media Technologies
 Sonic Science
 Sound Ideas
 Studer Professional Audio AG
 Valentino Music & Sounds Effects

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 +52 493-25070
 770-502-8744
 206-467-7101
 818-508-1444
 972-934-2222
 818-884-6294
 616-695-4000
 818-963-6300
 818-355-3656
 905-709-1600
 317-843-0706
 352-236-0744
 212-333-5766
 609-799-5071
 310-952-2111
 800 26-SCIENCE
 905-886-5300
 +41 1 870-7511
 914-347-7878

LIGHTING CONTROLS, DIMMERS

Barbizon Light
 Bardwell & McAlister Inc
 Bogen Photo Corp
 Colortran Inc
 Desisti Lighting
 Dove Systems
 Electronics Diversified Inc
Frezzi Energy Systems
 Group One Ltd
 Hubbell Inc Wiring Device - Kellems
 Leprecon/CAE Inc
 LTM Corp of America
 Lumitrol Ltd
 Osmar Sylvania Inc
 Packaged Lighting Systems Inc
 Premier Lighting & Production Co
 Richmond Sound Design Ltd
 Strand Lighting Inc
 Theatre Service & Supply Corp
Videssence
 Vincent Lighting Systems Co
 Walter Brewer Corp

617-935-3920
 818-834-6136
 201-818-9500
 818-843-1200
 201-319-1100
 805-541-8292
 503-645-5533
201-427-1160
 516-249-3662
 203-882-4800
 810-231-9373
 818-767-1313
 416-424-4284
 508-777-1900
 914-778-3515
 818-762-0884
 604-664-5860
 310-637-7500
 410-467-1225
415-579-7257
 216-475-7600
 918-493-7323

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Ac-cetera Inc
 Adwar Video

412-344-8609
 516-349-1800

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Anton/Bauer 203-929-1100

APS Professional Video Products
 Arriflex Corp
 Barbizon Light
 Bardwell & McAlister Inc
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A

ctually, when it came time to standardize on one disk interface protocol, it wasn't that hard. The top ten manufacturers of disk systems overwhelmingly chose The Louth Protocol.

We'd like to tell you it was our impressive track record in broadcast automation that did it. Or our reputation for pioneering object oriented programming to make automation faster, easier and more flexible. But the truth is, disk manufacturers chose the Louth Protocol because it works. It's open. And it's free. 100% public domain.

Now, whether you call it

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It has not only simplified applications such as Ad Insertion, Caching, Program Acquisition, Time Delay and Multi-Channel Management, it has made the future easier for everyone. By opening a pathway that is free of gatekeepers, toll takers, and proprietary potholes. That's why we agreed to make the protocol available to *our* competitors in automation, as well.

We believe in working with anything. Even when it's hard.

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CAE Inc/Little 810-231-9373
 Chimera 303-444-8000
 Cine 60 Inc 212-586-8782
 Colortran Inc 818-843-1200
 Comprehensive Video Group 201-229-0025
 Dedotec USA Inc 201-857-8118
 Desisti Lighting 201-319-1100
 Flash Technology Corp of America 615-377-0600

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 Leonetti Company 213-469-2987
 Lighttech Group Inc 718-525-2900
Lowel-Light Mfg Inc 718-921-0600
 LTM Corp of America 818-767-1313
 Lumitrol Ltd 416-424-4284
 M C Lights & Mfg 705-739-7886
 Mole-Richardson Co 213-851-0111
 Packaged Lighting Systems Inc 914-778-3515
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Sachtler Corp of America 516-867-4900
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 Theatre Service & Supply Corp 410-467-1225
Videsence 415-579-7577
 Vincent Lighting Systems Co 216-475-7600
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 F J Westcott Co 419-243-7311

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 Adwar Video 516-349-1800
 Apollo Presentation Products 516-467-8033
 APS Professional Video Products 718-628-6800
ASACA/ShibaSoku 310-827-7144
 Barbizon Light 617-935-3920
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 Cool-Lux 805-482-4820
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 FM Systems Inc 714-979-3355
 Gray Supply Co 219-398-2362
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 HPG Industries 718-479-3011
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 LTM Corp of America 818-767-1313
 Lumitrol Ltd 416-424-4284
 Minolta/Instrument Systems Div 201-818-3517
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 L E Nelson Sales Corp 702-367-3656
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 Osram Sylvania Inc 508-777-1900
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 Philips Lighting 908-563-3000
 Photomart Cine-Video Inc 407-851-2780
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 Pro Battery Inc 770-449-5900
Sachtler AG-Kommunikations-technik +49(0)89-32158-241
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 A W Sperry Instruments Inc 516-231-7050
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 Techni-Tool Inc 610-825-4990
 Theatre Service & Supply Corp 410-467-1225
 Vantage Lighting Inc 415-507-0402

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Videsence 415-579-7577

Vincent Lighting Systems Co 216-475-7600
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Faroudja Laboratories 408-735-1492
 Feral Industries
 James Grunder & Assoc 913-492-4666
 Inline Inc 310-690-6767
Miranda Technologies 514-333-1772
 Thomson Broadcast 201-569-1650

MASTER CONTROL SWITCHERS

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 Command Corp 813-724-1220
 GP Enterprises Inc 512-749-7026
 Image Video 416-438-3940
 Keystone Communications 310-845-3706
 NTP Elektronik A/S +45 4453 1188
Ogenic On Air Systems 619 479 1711
 Philips Broadcast Television Systems 805-584-4700
 Pro-Bel Ltd +44(0)1734 866123
 Tektronix Video & Network Div 800-547-8949
 Thomson Broadcast 201-569-1650
 Utah Scientific 801-575-8801
Videotek Inc 610-327-2292
 Vistek Electronics Ltd +44(0)1628 531221
 Wiltronix Inc 301-258-7676

MICROPHONE ACCESSORIES

Ac-cetera Inc 412-344-8609
 Adwar Video 516-349-1800
 AKG Acoustics +43 1 866 54 0
 Benchmark Media Systems Inc 315-437-6300
 Bogen Photo Corp 201-818-9500
 Broadcast Devices 914-737-5032
 BSW-Broadcast Supply Worldwide 206-565-2301
 Cabletek Electronics Ltd 604-942-1001
 Comprehensive Video Group 201-229-0025
 Countryman Associates Inc 415-364-9988
 Danish Pro Audio/Brüel & Kjær +45 4814 2828
DW Electrochemicals Ltd 905-508-7500
 FM Acoustics Ltd +41-1-725-7777
 G Prime Ltd 212-765-3415
 Blaine Lentz Lighting Assoc 818-887-7148
 Nady Systems Inc 510-652-2411
 Georg Neumann GmbH +49(0)30 4177240
 Neumann USA 860-434-5220
 Quality Video Supply 201-229-9800
 Sennheiser Electronic Corp 860-434-9190
 Sennheiser elektronik KG +49 5130-6000
 Symetrix 206-787-3222

MICROPHONES-WIRED

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 AKG Acoustics +43 1 866 54 0
 BSW-Broadcast Supply Worldwide 206-565-2301
 Cabletek Electronics Ltd 604-942-1001
 Comprehensive Video Group 201-229-0025
 Countryman Associates Inc 415-364-9988
 Danish Pro Audio ApS/Brüel & Kjær +45 4814 2828
 Electro-Voice Inc 616-695-6831
 G Prime Ltd 212-765-3415
 Gold Line Inc 203-938-2588
 LPB Inc 610-644-1123
 Micron Audio Products Ltd 201-857-8150
 Georg Neumann GmbH +49(0)30 4177240
 Neumann USA 860-434-5220
 Neutrik AG +41-75-237-2424
 Quality Video Supply 201-229-9800
 Sanken Microphones 213-845-1155
 Sennheiser Electronic Corp 860-434-9190
 Sennheiser elektronik KG +49 5130-6000
 Soundlux/Group One Ltd 516-249-1399
 Telex Communications Inc 612-884-4051

MICROPHONES-WIRELESS

Adwar Video 516-349-1800
 AKG Acoustics
 Harman Pro North America 615-399-2199

APS Professional Video Products 718-628-6800
 ATI-Audio Technologies Inc 215-443-0330
 Atlas/Soundolier - Atapco
 Security & Com 314-349-3110
 Audio Ltd +44-181-743-1518
 Audio Ltd USA 718-728-2654
 Audix Corp 503-682-6933
 Azden Corp 516-328-7500
 Barbizon Light 617-935-3920
 beyerdynamic 516-293-3200
 Bogen Communications Inc 201-934-8500
 Bogen Photo Corp 201-818-9500
 Brainstorm Electronics 213-845-1155
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 Electro-Voice Inc 616-695-6831
 Emo Systems Ltd +44-191-373-0787
 Fostex America 310-921-1112
 Fostex Corp +81-425-46-4974
 Full Compass Systems Ltd 608-831-7330
 Gold Line Inc 203-938-2588
 GP Enterprises Inc 512-749-7026
 Group One Ltd 516-249-3662
 Har-Ken Specialties 201-373-2762
 HNB Communications Ltd +44(0)181-962-5000
 Lakeside Associates Inc 714-770-6601
 Lectrosonics Inc 505-892-4501
 Light Wave Systems 818-780-3002
 LTM Corp of America 818-767-1313
 Mark IV Pro Audio Group 616-695-4750
 Micron Audio Products Ltd 201-857-8150
 Milab Microphones 516-249-1399
 Nady Systems Inc 510-652-2411
 Georg Neumann GmbH +49(0)30 4177240
 Neumann USA 860-434-5220
 OpTex +44(0)181-4412199
 Panasonic Broadcast & Television 800-524-0864
 Panasonic Pro Audio/Ramsa 714-373-7277
 Perma Power Electronics Inc 847-940-0010
 Photomart Cine-Video Inc 407-851-2780
 PRECO (Broadcast Systems) Ltd +44-181-644-4447
 Pro Battery Inc 770-449-5900
 Pro Power Products 818-558-6222
 Professional Sound Corp 805-295-9395
 Quality Video Supply 201-229-9800
 Quickset International Inc 708-498-0700
 Rapco International 800-467-2726
 RCI Systems Inc 301-984-1800
 Redding Audio Inc 203-270-1808
 The Rip-Tie Co 415-543-0170
 Rupert Neve
 Samson Technologies Corp 516-364-2444
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 Sennheiser elektronik KG +49 5130-6000
 Sennheiser Electronic Corp 860-434-9190
 Shure Brothers Inc 847-866-2200
 Shuttlesound Ltd +44(0)181687-2523
 Siemens Audio Co 212-949-2324
 Sony Business & Professional 201-930-6576
 Soundfield Research Ltd +44-1924-201-089
 Spectra Sonics 801-392-7531
 SSL Industries Inc 916-644-0233
 Systems Wireless Ltd 703-471-7887
 Tannoy/TGI North America 519-745-1158
 Telex Communications Inc 612-884-4051
 TOA Electronics Inc 415-588-2538
 University Sound 405-324-5311
 Vega Wireless/Mark IV 818-442-0782
 Videoquip Research Ltd 416-293-1042
 WaveSpace Inc 714-770-6601
 Whirlwind 716-663-8820

Product Directory

MICROWAVE EQUIPMENT

Advent Communications Ltd	+44(0)1494 774400
BAF Communications Corp	407-324-8250
Bext Inc	619-239-8462
Broadcast Equipment & Parts	561-790-4192
Broadcast Microwave Services	619-560-8601
CANARE	818-365-2446
Channel Master	919-934-9711
CommSpec	508-373-0657
Continental Electronics Corp	214-381-7161
Continental Microwave Ltd	+44-1582-424233
CPI Canada Inc	905-877-0161
Elantec Semiconductor Inc	408-945-1323
EMCEE Broadcast Products	717-443-9575
Energy-Onix Broadcast Equipment	518-828-1690
E-N-G Mobile Systems Inc	510-798-4060
ETM Electromatic Inc	510-797-1100
FLIR Systems	707-526-6659
FM Systems Inc	714-979-3355
Frequency Products Inc	415-364-0600
Frontline Communications	813-573-0400
Gabriel Electronics Inc	207-883-5161
General Microwave Services Inc	760-631-8021
Geneva Aviation	206-353-7400
GP Enterprises Inc	512-749-7026
Harris Corp/Broadcast Div/Systems	606-282-4800
Ikegami Electronics (USA) Inc	201-368-9171
Intraplex Inc	508-692-9000
JFW Industries	317-887-1340
JNS Electronics Inc	408-729-3838
Kintronic Labs Inc	423-878-3141
LBA Technology	919-757-0279
Ledtronics Inc	310-534-1505
Link Communications SA	+34 3347-1457
M/A-Com Inc	508-453-3100
Marcom	408-438-4273
Marti Electronics	817-645-9163
Microwave Filter Co Inc	315-437-3953
Microwave Networks Inc	281-495-7123
Microwave Radio Communications	508-250-1110
Modulation Sciences	908-302-3090
Moseley Associates Inc	805-968-9621
MSC Electronics Ltd	905-731-9500
NSI	410-964-8400
Nucomm Inc	908-852-3700
Nuova ELIT	+39 23340-2992
Precision Specialties Inc	818-349-9774
PRECOC (Broadcast Systems) Ltd	+44-181-644-4447
Pulizzi Engineering Inc	714-540-4229
QEI Corp	609-728-2020
RF Systems	203-239-3311
RF Technology Inc	203-866-4283
Shook Electronics USA Inc	210-651-5700
Sony Electronics	408-432-1600
Sony Electronics	201-930-7834
Technosystem SPA	+39(0) 62280396
Tectan Inc	510-798-2222
Telex Communications Inc	612-884-4051
TFT Inc	408-727-7272
Thomcast	+33 1 3490-3100
Troll Technology Corp	805-295-0770
Tron-Tek Inc	918-663-4877

MIDI EQUIPMENT

Akai Digital	817-336-5114
Alesis Corp	310-558-4530
Applied Research & Technology	716-436-2720
Crookwood	+44-1628-528-026
DOD Electronics	801-566-8800
D&R Electronica bv	+31(0)294 418014
DW Electrochemicals Ltd	905-508-7500
JLCooper Electronics	310-306-4131
Lone Wolf Corp	206-728-9600
OmniSound Corp	415-457-8114
Penny & Giles Inc	310-452-4995
Richmond Sound Design Ltd	604-664-5860
Roland Corp	714-727-2100
The Synclavier Co/SOC Associates	603-448-8887
Valley Audio/Galaxy Audio	316-265-9500
Yamaha Corp of America	714-522-9011

MONITORING EQUIPMENT

ASACA/ShibaSoku	310-827-7144
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Barco Inc	770-218-3200
Belar Electronics Lab Inc	610-687-5550
Boonton Electronics Corp	201-386-9696
Broadcast Electronics Inc	217-224-9600
Broadcast Equipment & Parts	561-790-4192
Dwight Cavendish Co	847-673-0937
C-COR Electronics Inc	814-238-2461
Continental Electronics Corp	214-381-7161
Data Check	619-578-0101
Dav Tronics	604-255-2200
Davicom Technologies	819-370-4343
Delta Electronics Inc	703-354-3350
DLE Inc	508-947-6801
Dubner International Inc	201-664-6434
FM Systems Inc	714-979-3355
GP Enterprises Inc	512-749-7026
Hewlett-Packard Co	509-921-3331
Richard Hirschmann GmbH	+43-5522-307-520
Holaday Industries Inc	612-934-4920
Ikegami Electronics (USA) Inc	201-368-9171
Inovonics Inc	408-458-0552
JVC Professional Products Co	201-794-3900
Lockheed Martin Microwave	516-231-1700
MSC Electronics Ltd	905-731-9500
Philips TV Test Equipment	+45 3288 5911
Potomac Instruments	301-589-2662
QEI Corp	609-728-2020
QSI Systems Inc	603-893-7707
Rohde & Schwarz Inc	301-459-8800
Rohde & Schwarz GmbH & Co Kg	+49-89-41292321
Sony Electronics	201-930-7834
Sony Electronics	408-432-1600
Tektronix	503-627-7111
Tektronix Video & Network Div	800-547-8949
TFT Inc	408-727-7272
Thomcast	+33 1 3490-3100
Videotek Inc	610-327-2292

MULTIMEDIA, CD-ROM

AccuWeather Inc	814-234-9601
Augan Instruments	+31(0)26-3648-966
BCD Associates	405-843-4574
CCS Europe GmbH	+49-811-5516-0
Convergent Media Systems	404-262-1555
Digital Force	212-333-5953
Digital Video Arts Ltd	215-576-7920
Digital Vision Inc	310-914-5200
Disc Mfg Inc	302-479-2500
Electric Image Inc	818-577-1627
Gefen Systems	818-884-6294
IBM	914-642-5886
Inline Inc	310-690-6767
Intergraph Computer Systems	205-730-2000
JVC Information Products	714-816-6500
Macromedia	415-252-2000
Minerva Systems Inc	408-487-2001
Pioneer New Media Technologies	310-952-2111

Prime Image

Prime Image Inc 408-867-6519

RGB Spectrum	510-814-7000
Softimage	818-365-1359
Sony Electronics	201-930-7834
Strata Inc	801-628-5218
Studer Professional Audio AG	+41 1 870-7511
Valentino Music & Sounds Effects	914-347-7878
Videotex Systems	972-231-9200

NETWORKING PRODUCTS

AMCO Engineering Co	847-671-6670
Augan Instruments	+31(0)26-3648-966
AVID Technology Inc	508-640-6789
C-COR Electronics Inc	814-238-2461
W Clark & Associates Ltd	309-837-2244
DATAMAX Digital Systems	714-586-9907
Discreet Logic	514-272-0525
Ensemble Designs	916-478-1830
IBM	914-642-5886
Industrial Computer Source	619-677-0877

Intergraph Computer Systems	205-730-2000
Intraplex Inc	508-692-9000
JVC Information Products	714-816-6500
MegaDrive Systems Inc.	310-247-0006
MicroNet Technology Inc	714-453-6100
Optivision Inc	415-855-0200
Pluto Technologies Int'l	303-402-9000
Quantel Inc	203-656-3100
Tektronix Video & Network Div	800-547-8949
VDOnet Corp	415-846-7700

NOISE REDUCTION SYSTEMS-AUDIO

Allen Avionics Inc	516-248-8080
BBE Sound Inc	714-897-6766
Circuit Research Labs Inc	602-438-0888
D&R Electronica bv	+31(0)294 418014
FM Systems Inc	714-979-3355
Gold Line Inc	203-938-2588
Netwell Noise Control	612-939-9845
Sennheiser elektronik KG	+49 5130-6000

NOISE REDUCTION SYSTEMS-VIDEO

ADT (Applied Digital Technology)	352-338-0516
A J Technology	617-969-0547
Alcatel Components	+61 3 9555 1566
Allen Avionics Inc	516-248-8080
APS Professional Video Products	718-628-6800
Audio-Video Engineering Co	516-546-4239
Avitel Electronics Ltd	+44(0)181655-3200
Avitel Inc	801-977-9553
Brainstorm Electronics	213-845-1155
Broadcast Video Systems Ltd	905-764-1584
Comband/Microwave Filter Co	315-437-3953
Da Vinci Systems	954-484-8100
Deerfield Laboratory	415-962-8707
Digital Vision (DV Sweden AB)	+46 8 182465
Digital Vision Inc	310-914-5200
DT Electronics Ltd	+44(0)1203-466500
FM Systems Inc	714-979-3355
For-A Co Ltd	+81-3-3446-3936
For-A Corp of America	714-894-3311
Image Video	416-438-3940
Inline Inc	310-690-6767
Intelveco Inc	203-348-9229
IRT Electronics Pty Ltd	+61 2 4393744
J-Lab	310-457-4090
KR Electronics Inc	908-636-1900
Kramer Electronics	201-229-1059
Merlin Engineering Works Inc	415-856-0900
MicroVideo Ltd	+44(0)1223834119
Microwave Filter Co Inc	315-437-3953
Netwell Noise Control	612-939-9845

NOVA
SYSTEMS
A VIDEONICS COMPANY

Nova Systems Inc 860-693-0238

Options International	615-327-8090
Pandora International Ltd	+44-1474-561000
Philips Broadband Networks Inc	315-682-9105
Philips Broadcast Television Systems	805-584-4700
Philips Broadcast Television Systems	+49(0)6155 870-0
Photomart Cine-Video Inc	407-851-2780
Sabine Inc	904-418-2000
Snell & Wilcox	+44(0)1730821188
Sony Business & Professional Group	201-930-6576
TTE Inc	310-478-8224
Video Engineering Ltd	+44-171-434-9751
Video Int'l Development Inc	516-243-5414
Video International Development Corp	516-243-5414
Y/C Plus Inc	913-235-5014

ON-AIR PRESENTATION

Alamar USA Inc	408-866-9373
American Broadcast Systems Inc	512-837-3737
APS Professional Video Products	718-628-6800
ASACA/ShibaSoku Corp of America	310-827-7144
ASC Audio Video	818-843-7004
Audiomation Systems	+44(0)1207-529-444
Augan Instruments	+31(0)26-3648-966
AVID Technology Inc	508-640-6789

Product Directory

AVS Graphics Ltd +44(0)1990003220
 Channelmatic Inc 619-445-2691
 Compromper 608-785-7766
 Comtech Antenna Systems Inc 407-892-6111
 Dateq Audio Technologies +31(0)36-547-2222
 Diaquest Inc 510-526-7167
 Philip Drake Electronics +44(0)1707333866
 EVS Broadcast Equipment +32 41 22.00.70
 FloriCal Systems Inc 352-372-8326
 Image Logic Corp 301-907-8891
 Image Video 416-438-3940
 Interface Engineering Corp 416-510-1051
 JL Cooper Electronics 310-306-4131
 Leightronix 517-694-8000
Louth Automation 415-843-3665
 Mainframe Computer Graphics Ltd 416-391-4500
 The Management 817-625-9761
 MATCO Inc 408-353-2670
 Media Computing Inc 602-582-2600
 MEMEX Software Inc 604-731-0831
 Nagra Lysis sa +41-21-732-0404
 Nesbit Systems Inc 609-799-5071
 The Network Connection Inc 770-751-0889
 Nytone Inc 801-973-4090
Odetics Broadcast 714-774-2200
Ogenic On Air Systems 619 479 1711
 Panasonic Broadcast & Television 800-524-0864
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 Pioneer New Media Technologies 310-952-2111
 Planon Telexpertise Inc 514-449-6481
 Pro-Bel Inc 770-396-1971
 Recognition Concepts Inc 702-882-7817
 Sony Business & Professional Group 201-930-6576
 Spaceward Graphics Ltd +44(0)1353741222
 Tandberg Data Storage AS +47 22 18 90 90
 Tech Electronics Inc 770-446-1416
 Tektronix Video & Network Div 800-547-8949
 Tel-Test Inc 352-374-4503
 Texscan MSI 801-359-0077
 Thomson Broadcast 201-569-1650
 Time Logic Inc 702-833-0200
 Video Data Systems 516-231-4400
 VideoFusion Ltd Partnership 419-891-1090

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Alcatel Components +61 3 9555 1566
 Alpha Technologies 360-647-2360
 Andrew Corp 708-349-3300
 Best Power Unit of General Signal 608-565-7200
 Broadcast Equipment & Parts 561-790-4192
 Columbine Systems 303-237-4000
 Computer Power Inc 908-638-8000
 Continental Electronics Corp 214-381-7161
 Control Concepts Corp/Liebert 607-724-2484
 J E Cuesta Co Inc 610-935-0400
 Current Technology Inc 972-238-5300
 Curtis Mfg Co 800-955-9514
 Peter Dahl Co Inc 915-751-2300
 Deltec Electronics Corp 619-291-4211
 Exeltech 817-595-4969
 Exide Electronics Group Inc 919-872-3020
 FM Systems Inc 714-979-3355
 Furman Sound Inc 415-927-1225
 FWT 817-457-3060
 GC Thorsen Inc 815-968-9661
 Hipotronics Inc 914-279-8091
 Hubbell Inc Wiring Device - Kellems 203-882-4800
 Innovative Technology Inc 909-799-0713
 Instrumentation & Control Systems Inc 630-543-6200
 Joslyn Electronic Systems Corp 805-968-3551
 Kalglo Electronics Co Inc 610-837-0700
 Kay Industries Inc 219-236-6220
 Kensington Microwave Ltd 412-572-2700
 LEA Dynatech 813-621-1324
 Liebert Corp 714-457-3600
 Lightning Eliminators & Consultants Inc 303-447-2828
 Lightning Master Corp 813-447-6800
 Lightning Prevention Systems 609-767-7209
 LPB Inc 610-644-1123
 Lyncole XIT Grounding 310-214-4000
 Marcom 408-438-4273
 MCG Electronics Inc 516-586-5125
 Meirick Inc 417-466-3941
 Newark Electronics 800-298-3133

Northern Technologies Inc 509-927-0401
 On-Line Power 213-721-5017
 Perma Power Electronics Inc 847-940-0010
 PolyPhaser Corp 702-782-2511
 Pro Power Products 818-558-6222
 Pulizzi Engineering Inc 714-540-4229
 Rathbone Energy Systems Inc 770-975-8052
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 United Power Corp 804-254-5730
 Warner Electric/Superior Electric 860-585-4500
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 Xentek Inc 760-471-4001
 ZZZap Power 514-369-4919

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 Balboa Capital Corp 714-756-0800
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 Cycle-Sat Inc 312-670-5100
 Evolving Video Technologies 303-456-1450
 FM Systems Inc 714-979-3355
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 Pinnacle System 415-526-1600
 Qutron 201-327-3259
 Sony Electronics 201-930-7834
 Steenbeck Inc 818-998-4033
 West Side Video 212-757-3300
 XAOS Tools 415-538-7000

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 GP Enterprises Inc 512-749-7026
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 Image Video 416-438-3940
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 JVC +81 426-60-7560
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 Sony Electronics 201-930-7834
 Sony Electronics 408-432-1600
 Tektronix 503-627-7111
 Tektronix Video & Network Div 800-547-8949
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 Textonix/Grass Valley Products 916-478-3000

Thomson Broadcast 201-569-1650
 VGV Inc (Video Gainesville) 352-372-0270
Videotek Inc 610-327-2292
 Vistek Electronics Ltd +44(0)1628531221

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Broadcast Technology Society/IEEE 919-752-7189
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 FM Systems Inc 714-979-3355
 Richard Hirschmann GmbH +43-5522-307-520
 Intergraph Computer Systems 205-730-2000
 National Association of Broadcasters 202-429-5350
 SBE Society of Broadcast Engineers 317-253-1640
 SCTE 610-363-6888
 SMPTE 914-761-1100

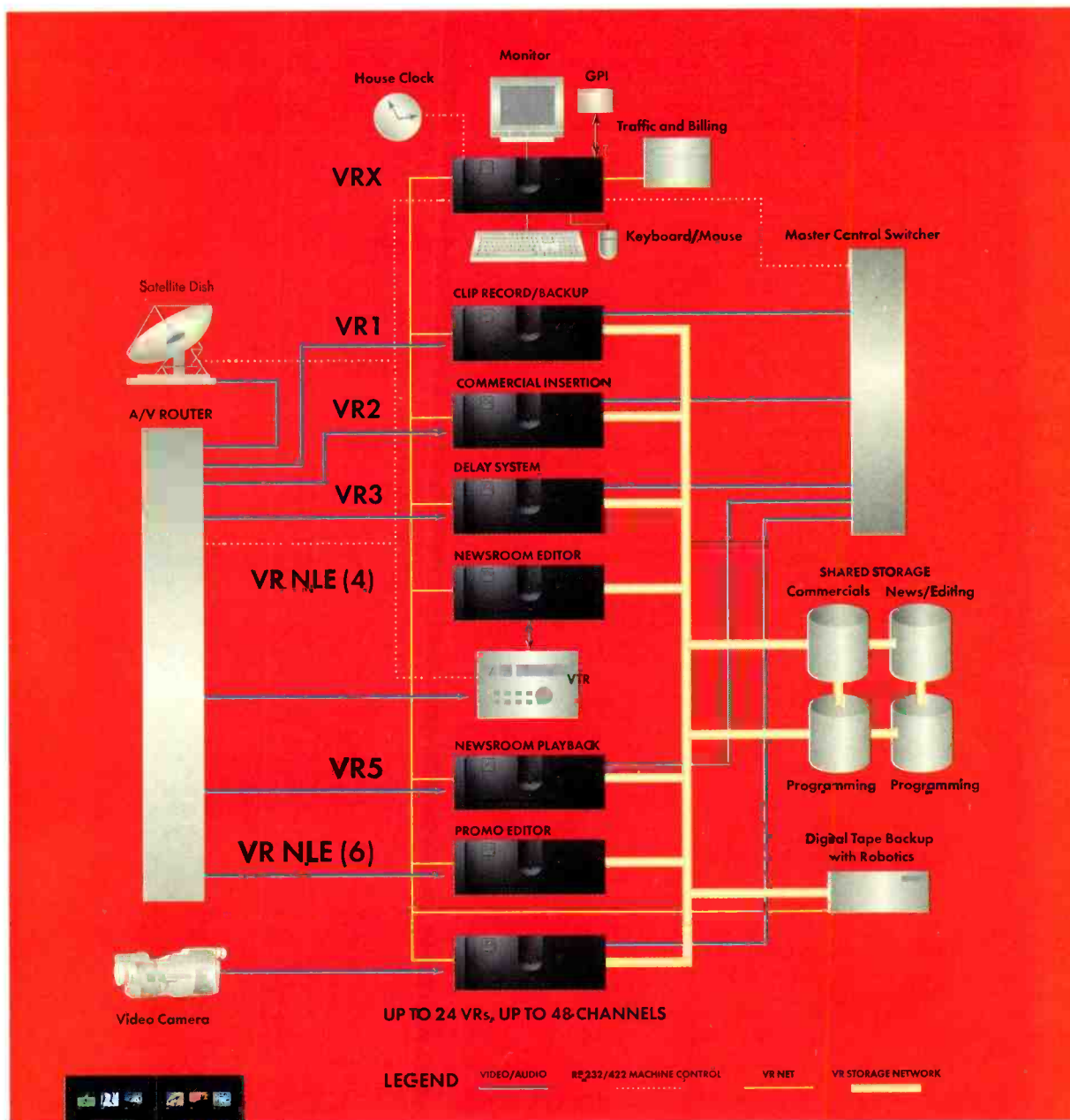
PROMPTERS, PROMPTING SOFTWARE

APS Professional Video Products 718-628-6800
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 Autocue Ltd +44(0)181870-0104
 BDL Autoscript +44(0)1715381427
 Beacon Software Inc 414-355-4460
Boland Communications 714-367-9911
 Compromper 608-785-7766
 CPC/Computer Prompting & Captioning Co 301-738-8487
 Cue Tech Teleprompting 310-657-9434
 DLE Inc 508-947-6801
 EDS Portaprompt Ltd +44-1494-450414
ESE 310-322-2136
 Lynn Greenberg Electronic Teleprompting 805-253-1987
 Grozik Associates 414-355-4460
 ict GmbH +49-7025-1020
 JL Cooper Electronics 310-306-4131
 Listec Video Corp 516-273-3020
 Magic Teleprompting Inc 415-626-5283
 Matthey Electronics +44-1782-524919
 Mirror Image Teleprompter 414-232-0220
 Photomart Cine-Video Inc 407-851-2780
 PRECO (Broadcast Systems) Ltd +44-181-644-4447
 Questar Systems Inc 770-956-0700
Tekskill Industries Inc 604-589-1100
 Tektronix NewStar 608-274-8686
 Tektronix Video & Network Div 800-547-8949
 Television Equipment - Matthey 914-763-8893
 Transvideo USA 805-520-1275
 Yamashita Engineering Mfg Inc +81 440462288883

RACKS, FURNITURE

Aarmor Case Co 616-374-5431
 Ac-cetera Inc 412-344-8609
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 Allen Avionics Inc 516-248-8080
 AMCO Engineering Co 847-671-6670
 Andrew Corp 708-349-3300
 Atlas/Soundolier - Atapco Security & Com 314-349-3110
 Avitel Electronics Ltd +44(0)181655-3200
 Avtech Systems Inc 201-833-8777
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 BGW Systems Inc 310-973-8090
 Biomorph Interactive Desks I.D./Design 212-647-9595
 Brainstorm Electronics 213-845-1155
 Broadcast Equipment & Parts 561-790-4192
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 Cabbage Cases Inc 614-486-2495
 Dwight Cavendish Co 847-673-0937
 COMWAVE 717-474-6751
 Continental Electronics Corp 214-381-7161
 J E Cuesta Co Inc 610-935-0400
 Delta Designs 800-368-9700
 DLE Inc 508-947-6801
 Electrarak Products Co 714-776-5420
 Emcor Products 507-289-3371
 Equipto Electronics Corp 630-897-4691
 Ergo 714-992-0874
 Fidelipac Corp 609-235-3900
 Future Case 508-626-2277
 FWT 817-457-3060
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Keystone Metal Products Inc 818-846-9210
Kintronic Labs Inc 423-878-3141
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Leprecon/CAE Inc 810-231-9373
M C Lights & Mfg 705-739-7886
Marco Inc 205-323-8070
Marcom 408-438-4273
Meret Optical Communications 310-828-7496
L E Nelson Sales Corp 702-367-3656
Neumade Products Corp 203-866-7600
Newark Electronics 800-298-3133
Newton Instrument Co 919-575-6426
OEI Electronics Systems Inc 908-735-0543
Ogenic On Air Systems 619-479-1711
Old Dominion Broadcast Eng Service 804-740-4717
Pacific Recorders & Engineering 760-438-3911
Packaged Lighting Systems Inc 914-778-3515
Penn Fabrication Inc 805-529-4962
Perma Power Electronics Inc 847-940-0010
Philips TV Test Equipment +45 3288 5911
Photomart Cine-Video Inc 407-851-2780
Powemark Case Corp 303-421-7912
PRECO (Broadcast Systems) Ltd +44-181-644-4447
Ram Broadcast Systems 847-382-7575
Roll-A-Reel Co 513-761-8500
Ruslang Corp 203-384-1266
Sescom Inc 702-565-3400
Skaggs Telecommunications Svcs 801-263-1370
Sound Designers Studio 212-757-5679
Stantron Cabinets 818-890-3445
Star Case Mfg Co Inc 219-922-4440
Tek Media Supply Co 847-677-3000
Titus Technological Labs 860-633-5472
Vantage Lighting Inc 415-507-0402
Vantage Point Products Corp 310-949-4886
Videssence 415-579-7577
Walter Brewer Corp 918-493-7323
Wenger Corp 507-455-4100
Winsted Corp 612-944-9050
Zero Stantron 818-890-3445

RECORDERS-AUDIO (NON-REMOVABLE MEDIA)

AEV SRL +39 51 950249
Augsan Instruments +31(0) 26-3648-966
BSW-Broadcast Supply Worldwide 206-565-2301
Denon Electronics 201-575-7810
Doremi Labs Inc 213-874-3411
Fast Forward Video 714-852-8404
Henry Engineering 818-355-3656
LPB Inc 610-644-1123
McCurdy Radio Industries Ltd 416-248-6155
MicroNet Technology Inc 714-453-6100
Ogenic On Air Systems 619-479-1711
QuVis 415-457-3005
Richmond Sound Design Ltd 604-664-5860
Sony Electronics 201-930-7834
Sony Electronics 408-432-1600
360 Systems 818-991-0360
Wide Range Electronics 314-230-7178

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AEQ SA +34 1 686-1300
Akai Digital 817-336-5114
Alesis Corp 310-558-4530
APS Professional Video Products 718-628-6800
ASACA/ShibaSoku 310-827-7144
ASC Audio Video 818-843-7004
Audi-Cord Corp 309-452-9461
Audio Follow +33 1 4607 2626
Augsan Instruments +31(0) 26-3648-966
Brainstorm Electronics 213-845-1155
Broadcast Automation Inc 972-487-5810
Broadcast Cartridge Service 714-898-7224
Broadcast Electronics Inc 217-224-9600
Broadcast Equipment & Parts 561-790-4192

BSW-Broadcast Supply Worldwide 206-565-2301
Canford Audio +44-191-4170057
Cartworks 601-856-9080
Continental Electronics Corp 214-381-7161
Denon Electronics 201-575-7810
Digigram +33 7652.4747
Digital Expressions Inc 206-718-9895
Digital Force 212-333-5953
Doremi Labs Inc 213-874-3411
Philip Drake Electronics +44(0) 1707 333866
Ergo 714-992-0874
Fidelipac Corp 609-235-3900
Fostex America 310-921-1112
Fostex Corp +81-425-46-4974
Full Compass Systems Ltd 608-831-7330
Gauss 213-875-1900
Graff Electronic Machines Ltd +44-1636-893036
Green Dot Audio 615-367-9242
HHB Communications Ltd +44(0) 181-962-5000
International Tapetronics Corp 309-828-1381
JLCooper Electronics 310-306-4131
JVC Information Products 714-816-6500
JVC +81 426-60-7560
KABA Research & Development 415-883-5041
LPB Inc 610-644-1123
Lyrec Mfg A/S +45 4453 2522
The Management 817-625-9761
Management Graphics 612-854-1220
Marantz Professional +31(0) 40-2734589
Media Touch Systems Inc 603-893-5104
Micro Technology Unlimited 919-870-0344
MicroNet Technology Inc 714-453-6100
Micropolis Corp 818-709-3300
Nagra Kudelski SA +41(0) 21 732-0101
NXT Generation 201-579-4849
Otari Corp 415-341-5900
Pacific Recorders & Engineering 760-438-3911
Panasonic Pro Audio/Ramsa 714-373-7277
Photomart Cine-Video Inc 407-851-2780
Pioneer New Media Technologies 310-952-2111
Plastic Reel Corp of America 201-933-5100
PRECO (Broadcast Systems) Ltd +44-181-644-4447
Professional Management Services 864-370-2400
Prophet Systems Inc 308-284-8450
QMI 508-435-3666
Questech Ltd +44(0) 1734-787209
QuVis 415-457-3005
Recognition Concepts Inc 702-882-7817
Roland Corp 714-727-2100
SADiE Inc 615-327-1140
Schafer World Communications Corp 540-783-2000
Siemens Audio Co 212-949-2324
Sierra Design Labs 702-831-7837
Solidyne +54 1 701-8622
SONDOR Willy Hungerbühler AG +41 1 391-3122
Sonic Solutions 415-893-8000
Sonifex Ltd +44(0) 1933 650700
Sonosax SA +41(0) 21 806-0202
Sony Business & Professional Group 201-930-6576
Sony Electronics 201-930-7834
Sony Electronics Inc/Recording Media 201-476-8000
Spectral Inc 206-487-2931
Steenbeck Inc 818-998-4033
Studer Digitec +34 1 34 808 700
Studer Professional Audio AG +41 1 870-7511
Studer Editech 615-391-3399
Superscope Technologies/Marantz 630-820-4800
Tandberg Data Storage AS +47 22 18 90 90
TASCAM/Teac Profession 213-726-0303
Texscan MSI 801-359-0077
360 Systems 818-991-0360
Videoquip Research Ltd 416-293-1042
Wide Range Electronics 314-230-7178
Zonal Ltd +44(0) 1737-767171

RECORDERS-DATA

Cybemetics 757-833-9000
FloriCal Systems Inc 352-372-8326
MicroNet Technology Inc 714-453-6100
Odetics Broadcast 714-774-2200
QuVis 415-457-3005

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Brainstorm Electronics 213-845-1155
Broadcast Equipment & Parts 561-790-4192
Canford Audio +44-191-4170057
DW Electrochemicals Ltd 905-508-7500
Fidelipac Corp 609-235-3900
Hall Electronics 804-984-4255
Hamlet Video International Ltd +44(0) 1494 793763
International Electro-Magnetics/IEM 847-358-4622
International Tapetronics Corp 309-828-1381
JRF Magnetic Sciences Inc 201-579-5773
KABA Research & Development 415-883-5041
Keith Monks Sound Systems +44-1726-83-3183
Neutrik AG +41-75-237-2424
Northern Magnetics Inc 612-446-1124
Nortronic 612-476-7356
NXT Generation 201-579-4849
Panasonic Broadcast & Television 800-524-0864
Photomart Cine-Video Inc 407-851-2780
Polyline Corp 847-390-7744
PRECO (Broadcast Systems) +44-181-644-4447
Saki Magnetics Inc 818-880-4054
Sony Electronics 408-432-1600
Sony Electronics/Recording Media 201-476-8000
Sprague Magnetics Inc 818-994-6602
Standard Tape Laboratory Inc 415-851-6600
Studer Professional Audio AG +41 1870-7511
Studer Editech 615-391-3399
Taber Mfg & Engineering Co 619-592-7861
Tek Media Supply Co 847-677-3000
Tentel Corp 916-939-4005
Videomagnetics Inc 719-579-6643
Wide Range Electronics 314-230-7178

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Accom Inc 415-328-3818
Adwar Video 516-349-1800
ASC Audio Video 818-843-7004
BTI Computer Systems 408-733-1122
Command Corp 813-724-1220
Digital Processing Systems/DPS 606-371-5533
DNF Industries 818-252-0198
Doremi Labs Inc 213-874-3411
Drastic Technologies 416-636-4444
Fast Electronic US Inc 415-295-3500
Fast Forward Video 714-852-8404
For-A Corp of America 714-894-3311
McCurdy Radio Industries Ltd 416-248-6155
MountainGate 702-851-9393
Odetics Broadcast 714-774-2200
Optical Disc Corp 954-946-3050
PE Photon 408-261-3613
Philips Broadcast Television Systems 805-584-4700
Pioneer New Media Technologies 310-952-2111
Pixel Instruments Corp 408-354-9122
QuVis 415-457-3005
Sony Electronics 201-930-7834
Sony Electronics 408-432-1600
Spencer Technologies 818-840-0907
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Thomson Broadcast 201-569-1650
Videotex Systems 972-231-9200
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AVS Graphics Ltd +44(0) 1990 003220
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Channelmatic Inc 619-445-2691
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DNF Industries 818-252-0198
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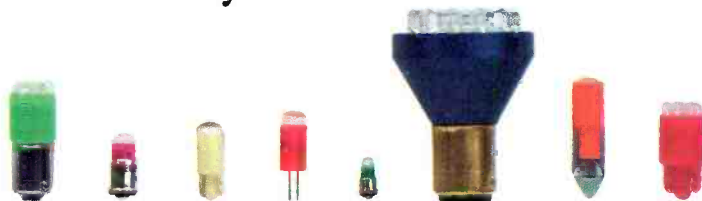
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Omicron Video 818-700-0742
Opamp Labs Inc 213-934-3566
 Panasonic Broadcast & Television 800-524-0864
 PESA Switching Systems Inc 205-726-9200
 Philips Broadband Networks Inc 315-682-9105
 Philips Broadcast Television Systems +9(0)6155 870-0
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 Pro-Bel Ltd +44(0)1734 866123
 Pro-Bel Inc 770-396-1971
 Pro Tech Audio Corp 516-584-5855
 Quality Video Supply 201-229-9800
 Questech Ltd +44(0)1734-787209
 Radio Design Labs 805-684-5415
 Ram Broadcast Systems 847-382-7575
 Ross Video Ltd 613-652-4886
 Sandar Electronics AS +47 3345 9600
 Scantex Labs Inc 514-626-8943
 Shintron Co Inc 508-371-7500
 Sierra Video Systems Inc 916-478-1000
 Sigma Electronics Inc 717-569-2681
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 Snell & Wilcox +44(0)1730 821188
 Sony Business & Professional 201-930-6576
 Sony Electronics 201-930-7834
 ST Keltec Corp 904-244-0043
 System Video +44(0)1813915678
 Target Technology Inc 916-639-2102
 Tech Electronics Inc 770-446-1416
 Tekniche Inc 201-784-2288
 Tektronix 503-627-7111
 Telect Inc 509-926-6000
 Television Equipment - Matthey 914-763-8893
 Tel-Test Inc 352-374-4503
 Texscan MSI 801-359-0077
 Textronix/Grass Valley Products 916-478-3000
 TMT electronics AG +41 31-771-2829
 Toko America Inc 847-297-0070

Trilithic Inc 317-895-3600
 Trilogy Broadcast Ltd +44(0)1264-332033
 Utah Scientific 801-575-8801
 VGV Inc (Video Gainesville) 352-372-0270
 Vicon Industries Inc 516-293-2200
Video Accessory Corp 303-443-4950
 Videoquip Research Ltd 416-293-1042
Videotek Inc 610-327-2292
 Viewsonics Inc 561-998-9594
 Vistek Electronics Ltd +44(0)1628 531221
 Vortex Communications +44(0)1815 792743
 Wiltronix Inc 301-258-7676
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 Digital Vision Inc 310-914-5200
 Magnaphone Ops 310-517-6031
 NPR Satellite Services 202-414-2626
 Satellite Export & Engineering 517-629-5990
Wegener Communications Inc 770-623-0096

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 Atlantic Satellite Communications Inc 201-784-0555
 AVCOM of Virginia Inc 804-794-2500
BAF Communications Corp 407-324-8250
 Barco Inc 770-218-3200
 California Amplifier Inc 805-987-9000
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 Convergent Media Systems 404-262-1555
 Dawn Satellite 810-391-9200
 DH Satellite 608-326-8406
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 EEV 914-592-6050
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 Fairchild Data Corp 602-949-1155
 FM Systems Inc 714-979-3355
 Frequency Products Inc 415-364-0600
 Frontline Communications 813-573-0400
 General Microwave Services Inc 760-631-8021
 Richard Hirschmann GmbH +43-5522-307-520
Hotronix Inc 408-378-3883
 Hughes Technical Services
 Magnaphone Ops 310-517-6031
 Insulated Wire Inc 203-791-1999
Intraplex Inc 508-692-9000
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 IRTE Spa +39 331 797286
 ISS Engineering Inc 415-424-0380
 Jon Powell & Associates 317-896-2500
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 LNR Communications Inc 516-273-7111
 Magnavox 310-618-7046
 Marcom 408-438-4273
 MCL Inc 630-759-9500
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Sony Electronics 408-432-1600
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ASC Audio Video 818-843-7004
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Avitel Inc 801-977-9553
AVS Graphics Ltd +44(0)1990 003220
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Y/C Plus Inc 913-235-5014

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QSI Systems Inc 603-893-7707
RGB Spectrum 510-814-7000
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Altec Lansing 405-324-5311
Atlas/Soundolier - Atapco Security & Com 314-349-3110
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Auernheimer Labs & Co 209-442-1048
Auratone Corp 619-297-2820
Beck Associates Inc 512-388-9777
BGW Systems Inc 310-973-8090
Brainstorm Electronics 213-845-1155
Broadcast Equipment & Parts 561-790-4192
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Cabletek Electronics Ltd 604-942-1001
Canford Audio +44-191-4170057
Clear-Com Systems 510-527-6666
Community Professional Loudspeakers 610-876-3400
Comprehensive Video Group 201-229-0025
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Continental Electronics Corp 214-381-7161
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Denon Electronics 201-575-7810
Dynaudio Acoustics UK Ltd +44(0)171 4033808
EAW (Eastern Acoustic Works) 508-234-6158
Electro-Voice Inc 616-695-6831
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Group One Ltd 516-249-3662
HHB Communications Ltd +44(0)181-962-5000
ITI Electronics Inc 201-882-6405
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JNS Electronics Inc 408-729-3838
KRK Systems/Group One Ltd 516-249-1399
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Tony Larking Pro Sales Ltd +44-1462-490-600

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 McCurdy Radio Industries Ltd 416-248-6155
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 PAC Sales/EELA Audio +31(0)40-510484
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 PHL Audio +33-1-6069-1008
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 Pioneer New Media Technologies 310-952-2111
 PRECO (Broadcast Systems) Ltd +44-181-644-4447
 QMI 508-435-3666
 Quality Video Supply 201-229-9800
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 Sennheiser Electronic Corp 860-434-9190
 Shuttlesound Ltd +44(0)181687-2523
 Spectra Sonics 801-392-7531
 Michael Stevens & Partners Ltd +44-181-460-7299
 Studer Professional Audio AG +41 1870-7511
 Tannoy Ltd +44(0)1236-420-199
 Technomad Inc 800-464-SPKR
 TOA Electronics Inc 415-588-2538
 United States Broadcast 606-282-1802
 UREI 818-893-8411
 Videoquip Research Ltd 416-293-1042
Videotek Inc 610-327-2292
 VMI (Video Masters Inc) 816-587-0000
 Wave:Space Inc 714-770-6601
 Westlake Audio 805-499-3686
 Wohler Technologies Inc 415-589-5676

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A J Technology 617-969-0547
 APS Professional Video Products 718-628-6800
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 BAL Broadcast Ltd +44(0)1203-375827
 Comtech Antenna Systems Inc 407-892-6111
 Digipath Video Inc 514-697-0810
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 FM Systems Inc 714-979-3355
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 FSR Inc 201-785-4347
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 I-Den Videotronics Inc +81-3-3447-5220
 James Grunder & Associates Inc 913-492-4666
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 LNR Communications Inc 516-273-7111
 Philips Broadcast Television Systems +49(0)6155870-0

Prime Image

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 Skotell Corp 514-333-7989
 Snell & Wilcox +44(0)1730 821188
 Sony Business & Professional Group 201-930-6576
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 Thomson Broadcast 201-569-1650
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 Pixel Power Ltd +44(0)1223-423399
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 Spencer Technologies 818-840-0907
 Wiltronix Inc 301-258-7676

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 Keystone Metal Products Inc 818-846-9210
 Major Engineering 818-309-9470
 Media Touch Systems Inc 603-893-5104
 MegaDrive Systems Inc 310-247-0006
 Mobile Media 201-391-0111
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 Star Case Mfg Co Inc 219-922-4440
 Storeel Corp 770-458-3280
 Sun Microsystems/Interactive Services 415-969-1300
 Tape Storage Systems-TCS 510-686-1801
 Tripp Communications Sales-TCS 510-686-1801
 Wenger Corp 507-455-4100
 Winsted Corp 612-944-9050

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 Imagine Products Inc 317-843-0706
Louth Automation 415-843-3665
 MegaDrive Systems Inc 310-247-0006
 Miles Tek Inc 817-455-7444
 Nesbit Systems Inc 609-799-5071
 Panduit Corp 708-532-1800
 Philips Broadcast Television Systems 805-584-4700
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 Polyline Corp 847-390-7744
 Professional Label Inc 301-598-2357
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 Sun Microsystems/Interactive Services 415-969-1300
 Techni-Tool Inc 610-825-4990
 3M Telecom Markets 512-984-3400
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 3M Telecom Markets 512-984-3400
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 Wheatstone Corp 315-452-5000

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 BVE 317-887-0996
 Chyron Corp 516-845-2026
 DLE Inc 508-947-6801
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 DTL Broadcast Ltd +44(0)181-813-5200
 Elantec Semiconductor Inc 408-945-1323
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 Intellivideo Inc 203-348-9229
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Leitch Inc 757-548-2300
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 QSI Systems Inc 603-893-7707
 Shintron Co Inc 508-371-7500
 Sigma Electronics Inc 717-569-2681
 Snell & Wilcox +44(0)1730 821188
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 Textronix/Grass Valley Products 916-478-3000
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 Complex Corp 316-342-7743
 Command Corp 813-724-1220
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Digital Processing Systems/DPS 606-371-5533
 DLE Inc 508-947-6801
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Nova Systems Inc 860-693-0238

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 Pixel Instruments Corp 408-354-9122



Prime Image Inc 408-867-6519

Questech Ltd +44(0)1734-787209
 Snell & Wilcox +44(0)1730821188
 Sony Business & Professional Group 201-930-6576
 Sony Electronics 408-432-1600
 Tekniche Inc 201-784-2288
 Tekniche Ltd +44(0)1483-728006
 Tektronix 503-627-7111
 Tektronix Video & Network Div 800-547-8949
 Textronix/Grass Valley Products 916-478-3000
 Toshiba Corp +81(0)33457 3244
Videotek Inc 610-327-2292
 Vistek Electronics Ltd +44(0)1628531221
 Viz Technology 718-714-9873
 Wiltronix Inc 301-258-7676

TELCO INTERFACE EQUIPMENT

AEQ SA +34 1 686-1300
 AEV SRL +39 51 950249
 Audix Broadcast Ltd +44(0)1799-542220
 Brainstorm Electronics 213-845-1155
 Broadcast Equipment & Parts 561-790-4192
 BSW-Broadcast Supply Worldwide 206-565-2301
Clear-Com Systems 510-527-6666
Comrex Corp 508-263-1800
 Dateq Audio Technologies +31(0)36-547-2222
 DLE Inc 508-947-6801
 D&R Electronica bv +31(0)294 418014
ESE 310-322-2136
 Fuller Manufacturing Inc 818-500-0116
Gentner Communications Corp 801-975-7200
 GP Enterprises Inc 512-749-7026
 Henry Engineering 818-355-3656
 ITI Electronics Inc 201-882-6405
 JK Audio 815-786-2929
 Joslyn Electronic Systems Corp 805-968-3551
 JT Communications 352-236-0744
 Lectrosnics Inc 505-892-4501
 NTP Elektronik A/S +45 4453 1188
 PAC Sales/EELA Audio +31(0)40-510484
 Photomart Cine-Video Inc 407-851-2780
 Plasmec Systems Ltd +44-1252 721236
 PRECO (Broadcast Systems) +44-181-644-4447
 Professional Sound Corp 805-295-9395
 RAMI +33-1-6466-2020
 R-Columbia Products Co Inc 847-432-7915
 Solidyne +54 1 701-8622
 Sonifex Ltd +44(0)1933 650700
 Studer Professional Audio AG +41 1 870-7511
 Studer Editech 615-391-3399
 Swintek 408-727-4889
 Telfax Communications 515-296-9911
 Telos Systems 216-241-7225
 Vortex Communications +44(0)1815 792743

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AEQ SA +34 1 686-1300
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Comrex Corp 508-263-1800

Gentner Communications Corp 801-975-7200
 ITI Electronics Inc 201-882-6405
 Nuova ELIT +39 2 3340-2992
 PRECO (Broadcast Systems) Ltd +44-181-644-4447
 Solidyne +54 1 701-8622
 Vortex Communications +44(0)1815 792743

TEST EQUIPMENT-AUDIO

ASACA/ShibaSoku 310-827-7144
 Audio Precision 503-627-0832
 AudioControl Industrial 206-775-8461
Beck Associates Inc 512-388-9777
Boland Communications 714-367-9911
 Boonton Electronics Corp 201-386-9696
 Brüel & Kjær Instruments Inc 770-981-3998
 Circuit Research Labs Inc 602-438-0888
 Conex Electro Systems Inc 360-734-4323
 Davicom Technologies 819-370-4343
 DK-Audio +45 4453 0255
 Dorrough Electronics 818-998-2824
 EIP Microwave Inc 408-945-1477
ESE 310-322-2136
 FM Systems Inc 714-979-3355
 Full Compass Systems Ltd 608-831-7330
 G Prime Ltd 212-765-3415
 Gauss 213-875-1900
 Gold Line Inc 203-938-2588
 HEDCO 757-548-2300
 HES Electronics +32 (2) 466-8180
Hewlett-Packard Co 509-921-3331
 Richard Hirschmann GmbH +43-5522-307-520
 Horita 714-489-0240
 Image Video 416-438-3940
 JNS Electronics Inc 408-729-3838
Leader Instruments Corp 516-231-6900
 Magni Systems 503-626-8400
 McCurdy Radio Industries Ltd 416-248-6155
 MicroAudio Inc 503-293-0562
 Modulation Sciences 908-302-3090
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 Neutrik AG +41-75-237-2424
 Neutrik Instrumentation Inc 514-344-5220
 Pacific Coast Marketing 408-370-3505
 Potomac Instruments 301-589-2662
 PRECO (Broadcast Systems) +44-181-644-4447
 Products International 301-587-7824
 Prism Media Products Inc 908-747-7272
 Pro-Bel Inc 770-396-1971
 Rane Corp 206-355-6000
 Rohde & Schwarz Inc 301-459-8800
 Rohde & Schwarz GmbH & Co Kg +49-89-41292321
 Sabine Inc 904-418-2000
 Scantex Labs Inc 514-626-8943
 Schmid Telecommunication America 609-742-1878
 Sescom Inc 702-565-3400
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 Tally Display Corp 914-365-6393
 Techni-Tool Inc 610-825-4990
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 TFT Inc 408-727-7272
 Titus Technological Labs 860-633-5472
 TTC/Telecommunications
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 Wandel & Goltermann +49 7121 862102
 Wide Band Engineering Co Inc 602-254-1570
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 Digital Transport Systems 619-675-1410
Hitachi Denshi America Ltd 310-328-6116
 Products International 301-587-7824
 Rohde & Schwarz Inc 301-459-8800
 Sencore Electronics 605-339-0100

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 Tektronix Video & Network Div 800-547-8949

TEST EQUIPMENT-COMPUTER NETWORK

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 Contact East Inc 508-682-2000
 Fluke Corp 206-347-6100
 Fotec Inc 617-396-6155
 Jensen Tools Inc 602-968-6231
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 TTC/Telecommunications
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 Viewtronics Ltd +44(0)1483 750573
 Wavetek Corp/Instrument Div 619-279-2200
 Wiltronix Inc 301-258-7676

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 Multidyne Inc 516-671-7278
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 Schmid Telecom AG 41-1-456-1111
 Sencore Electronics 605-339-0100
 Simpson Electric 708-697-2260
 Solder Absorbing Technology/SAT 413-788-6191
 Sorensen Co 619-458-0259
 A W Sperry Instruments Inc 516-231-7050
 SSAC Inc 315-638-1300
 Stanford Research Systems 408-744-9040
 Techni-Tool Inc 610-825-4990
 Tektronix 503-627-7111
 Triplett Corp 419-358-5015
 TTC/Telecommunications
 Techniques Corp 301-353-1550
 Viewsonics Inc 561-998-9594
 Wavetek Corp/Instrument Div 619-279-2200
 Xentek Inc 760-471-4001

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 R B Annis Co Inc 317-637-9282
 Anritsu Wiltron 408-776-8300
ASACA/ShibaSoku 310-827-7144
 AudioControl Industrial 206-775-8461
 AVCOM of Virginia Inc 804-794-2500

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Coaxial Dynamics	216-267-2233
Continental Electronics Corp	214-381-7161
J E Cuesta Co Inc	610-935-0400
Davicom Technologies	819-370-4343
Delta Electronics Inc	703-354-3350
DK-Audio	+45 4453 0255
Dranetz Technologies Inc	908-287-3680
Eagle	520-204-2597
EIP Microwave Inc	408-945-1477
Fluke Corp	206-347-6100
General Instrument Corp	215-674-4800
Gold Line Inc	203-938-2588
GP Enterprises Inc	512-749-7026
Hewlett-Packard Co	509-921-3331
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Holaday Industries Inc	612-934-4920
Ivie Technologies Inc	801-224-1800
JFW Industries	317-887-1340
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Kay Elemetrics Corp	201-628-6200
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LNR Communications Inc	516-273-7111
Lockheed Martin Microwave	516-231-1700
Loral Microwave-Narda	516-231-1700
MFJ Enterprises Inc	601-323-5869
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Pacific Coast Marketing	408-370-3505
Philips Broadband Networks Inc	315-682-9105
Potomac Instruments	301-589-2662
Products International	301-587-7824
Riser-Bond Instruments	402-466-0933
Rohde & Schwarz Inc	301-459-8800
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Sencore Electronics	605-339-0100
Shively Labs	207-647-3327
A W Sperry Instruments Inc	516-231-7050
Techni-Tool Inc	610-825-4990
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Triplett Corp	419-358-5015
TTC/Telecommunications	
Techniques Corp	301-353-1550
Viewsonics Inc	561-998-9594
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Wide Band Engineering Co Inc	602-254-1570

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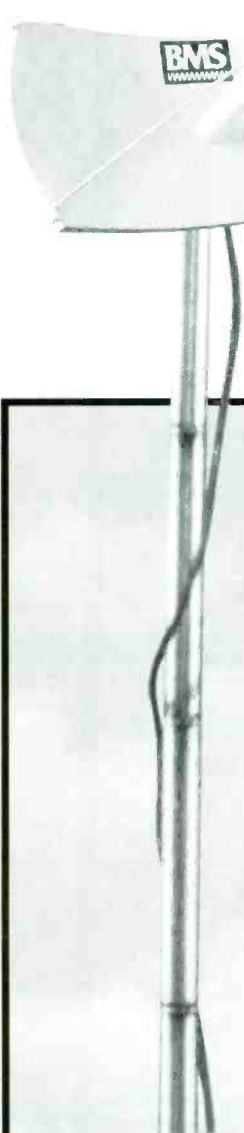
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Data Check	619-578-0101
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Dranetz Technologies Inc	908-287-3680
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DT Electronics Ltd	+44(0)1203-466500
DTL Broadcast Ltd	+44(0)181-813-5200
EEG Enterprises Inc	516-293-7472
Fluke Corp	206-347-6100
FM Systems Inc	714-979-3355
GP Enterprises Inc	512-749-7026
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Hamlet Video/James Grunder & Assoc	913-492-4666
HEDCO	757-548-2300
Hewlett-Packard Co	509-921-3331
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Leader Instruments Corp	516-231-6900
Link Electronics Inc	573-334-4433
Magni Systems	503-626-8400
MicroVideo Ltd	+44(0)1223834119
Microvideo USA Inc	203-393-0598
Modulation Sciences	908-302-3090

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Sencore Electronics

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SyntheSys Research
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610-825-4990
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Alesis Corp 310-558-4530
APS Professional Video Products 718-628-6800
Arriflex Corp 914-353-1400
Audio Kinetics UK Ltd +44(0)181953-8118
Avitel Electronics Ltd +44(0)181655-3200
Avitel Inc 801-977-9553
AVS Graphics Ltd +44(0)1990 003220
Axon Digital Design BV +31(0)13511 4500
BCD Associates 405-843-4574
Brainstorm Electronics 213-845-1155
Burst Electronics Inc 505-898-1455
Canford Audio +44-191-4170057
Cipher Digital 301-695-0200
W Clark & Associates Ltd 309-837-2244
Denecke Inc 818-766-3525
Diaquest Inc 510-526-7167
Digital Expressions Inc 206-718-9895
DTL Broadcast Ltd +44(0)181-813-5200
D-Vision Systems Inc 773-714-1400
Ensemble Designs 916-478-1830
ESE 310-322-2136
Evertz Microsystems Ltd 905-335-3700
Fast Forward Video 714-852-8404
For-A Corp of America 714-894-3311
FutureVideo 714-770-4416
Gray Engineering Labs Inc 714-997-4151
Hamlet Video International Ltd +44(0)1494 793763
Horita 714-489-0240
Image Logic Corp 301-907-8891
Imagine Products Inc 317-843-0706
JRF Magnetic Sciences Inc 201-579-5773
JVC Professional Products Co 201-794-3900
Leitch Inc 757-548-2300
Mainframe Computer Graphics Ltd 416-391-4500
OpTex +44(0)181-4412199
Options International 615-327-8090
Outland Technology Inc 504-367-0104
Shintron Co Inc 508-371-7500
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Sumitomo Electric USA Inc 310-782-0227
TASCOM/Teac Profession 213-726-0303
Telcom Research 905-336-2450
Vid-Video Inc 818-845-1515
VideoLab Para Technologies 503-644-7657
Vortex Communications +44(0)1815 792743
Wide Range Electronics 314-230-7178
Wiltronix Inc 301-258-7676

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Biamp Systems 503-641-7287
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dB Technologies 213-845-1155
Digigram +33 7652.4747
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DOD Electronics 801-566-8800
DTL Broadcast Ltd +44(0)181-813-5200
Electro-Voice Inc 616-695-6831
Eventide Inc 201-641-1200
FloriCal Systems Inc 352-372-8326
For-A Corp of America 714-894-3311
Graham-Patten Systems 916-273-8412
Group One Ltd 516-249-3662
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Merlin Engineering Works Inc 415-856-0900
Micro Technology Unlimited 919-870-0344
Georg Neumann GmbH +49(0)30 41 77240
Nova Systems Inc 860-693-0238
Ogenic On Air Systems 619 479 1711
OmniSound Corp 415-457-8114
Pacific Recorders & Engineering 760-438-3911
Panasonic Pro Audio/Ramsa 714-373-7277
Pixel Instruments Corp 408-354-9122
PRECO (Broadcast Systems) Ltd +44-181-644-4447

Prime Image

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Questech Ltd +44(0)1734-787209
Rane Corp 206-355-6000
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Spectral Inc 206-487-2931
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Tekniche Inc 201-784-2288
Video International Development Corp 516-243-5414
Vortex Communications +44(0)1815 792743
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Hotronic Inc 408-378-3883
Matthey Electronics +44-1782-524919
Nova Systems Inc 860-693-0238

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Tektronix Video & Network Div 800-547-8949
Television Equipment - Matthey 914-763-8893
Wiltronix Inc 301-258-7676

TOOLS

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Fotec Inc 617-396-6155
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Jensen Tools Inc 602-968-6231
MilesTek Inc 817-455-7444
Newark Electronics 800-298-3133
ORA Electronics 818-772-2700
PACE Inc 301-490-9860
Photomart Cine-Video Inc 407-851-2780
Products International 301-587-7824
Techni-Tool Inc 610-825-4990
3M Telecom Markets 512-984-3400
Trompeter Electronics Inc 818-707-2020
Weidmuller Inc/Paladin Tools 805-499-0318
Western Electronic Production 760-723-9944

TOWER-SERVICES

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Antenna Concepts Inc 916-621-2015
Arden Technologies Inc 954-730-0565
Broadcast Communications 608-527-5670
CMBE 916-933-9330
Alan Dick & Co Ltd +44(0)1242518500
Doty-Moore Tower Services 972-293-1200
ERI - Electronics Research 812-925-6000
Express Tower Co 918-783-5129
Flash Technology Corp of America 615-377-0600
Gabriel Electronics Inc 207-883-5161
JFW Industries 317-887-1340
Kline Towers 803-251-8000
LDL Communications 303-665-8000

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Lightning Master Corp 813-447-6800
Malouf Engineering International 972-783-2578
Marcom 408-438-4273
Marconi Communications Inc 703-620-0333
Microflect Co Inc 503-363-9267
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Stainless Inc 215-699-4871
Stellar Communications Inc 918-256-7883
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SWR Inc 814-472-5436
Technet Systems Group 603-483-5365
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Teletech Inc 313-562-6873
Tenco Tower Co 916-638-8833
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Thomcast +33 1 3490-3100
Tower Network Services 954-771-7180
TWR Lighting Inc 713-973-6904
Utility Tower Co 405-946-5551
Valmont Industries/CPD 402-359-2201

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 Thomcast +33 1 3490-3100
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 Utility Tower Co 405-946-5551
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 Xcel Controls Inc 219-259-7804

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 Broadcast Technology Society/IEEE 919-752-7189
 C-COR Electronics Inc 814-238-2461
Communications & Power Industries 408-496-6273
 Continental Electronics Corp 214-381-7161
 Dataworld Inc 800-368-5754
 Extron Electronics 714-491-1500
 Flash Technology Corp of America 615-377-0600
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 Fotec Inc 617-396-6155
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Tektronix NewStar	608-274-8686
Tektronix/Lightworks Editing Systems	213-465-2002
TV One Multimedia Solutions	606-282-7303
VAS Group Inc	818-843-4831
Videomedia Inc	408-227-9977
Videotex Systems	972-231-9200

VIDEO ENCODERS, DECODERS

A J Technology	617-969-0547
Alpha Image Ltd	+44(0)1635 521939
APS Professional Video Products	718-628-6800
Avitel Electronics Ltd	+44(0)1816 55-3200
Avitel Inc	801-977-9553
Broadcast Video Systems Ltd	905-764-1584
C-COR Electronics Inc	814-238-2461
Comtech Antenna Systems Inc	407-892-6111
J E Cuesta Co Inc	610-935-0400
Digital Vision (DV Sweden AB)	+46 8 182465
DT Electronics Ltd	+44(0)1203-466500
DTL Broadcast Ltd	+44(0)181-813-5200
Elantec Semiconductor Inc	408-945-1323
Ensemble Designs	916-478-1830
Extron Electronics	714-491-1500
FM Systems Inc	714-979-3355
Folsom Research	916-983-1500
For-A Co Ltd	+81-3-3446-3936
For-A Corp of America	714-894-3311
Genesis Microchip	415-428-4277
I-Den Videotronics Inc	+81-3-3447-5220
Inline Inc	310-690-6767
Intellivideo Inc	203-348-9229
J-Lab	310-457-4090
JVC Information Products	714-816-6500
Kramer Electronics	201-229-1059
Leitch Inc	757-548-2300
Link Electronics Inc	573-334-4433
Matthey Electronics	+44-1782-524919
Microtime Inc	860-242-4242
Miranda Technologies	514-333-1772
Norpak Corp	613-592-4164



Nova Systems Inc 860-693-0238

Optivision Inc	415-855-0200
PE Photron	408-261-3613
Questech Ltd	+44(0)1734-787209
Ross Video Ltd	613-652-4886
Sigma Electronics Inc	717-569-2681
Snell & Wilcox	+44(0)1730 821188
Sony Business & Professional	201-930-6576
Sony Electronics	408-432-1600
Tekniche Inc	201-784-2288



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The Video Management Solutions Company

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WWW <http://www.odetics.com/> E-mail broadcast-sales@odetics.com

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Product Directory

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 Tektronix Video & Network Div 800-547-8949
 Telect Inc 509-926-6000
 Television Equipment - Matthey 914-763-8893
 Textronix/Grass Valley Products 916-478-3000
 Utah Scientific 801-575-8801
 VAS Group Inc 818-843-4831
 VGV Inc (Video Gainesville) 352-372-0270
 Video Int'l Development Inc 516-243-5414
 Videotex Systems 972-231-9200
 Vistek Electronics Ltd +44(0)1628531221
 Vortex Communications +44(0)1815 792743
 Wide Range Electronics 314-230-7178
 Wiltronix Inc 301-258-7676

VIDEO MONITORS

Adwar Video 516-349-1800
 Avtech Systems Inc 201-833-8777

BOLAND COMMUNICATIONS

Boland Communications 714-367-9911

Data Check 619-578-0101
 GP Enterprises Inc 512-749-7026
 Ikegami Electronics (USA) Inc 201-368-9171
 JVC Professional Products Co 201-794-3900
 Promax Technology 714-727-3977
 Sony Electronics 408-432-1600
Videotek Inc 610-327-2292
 Videotex Systems 972-231-9200
 Vistek Electronics Ltd +44(0)1628531221
 Wiltronix Inc 301-258-7676

VIDEO MONITORS-PARTS, ACCESSORIES

APS Professional Video Products 718-628-6800
ASACA/ShibaSoku 310-827-7144
 Barco Inc 770-218-3200
 Brainstorm Electronics 213-845-1155
 Comtech Antenna Systems Inc 407-892-6111
 Dotronix Inc 612-633-1742
 Elmo Mfg Corp 516-775-3200
 Hoodman Corp 310-379-6391
 ict GmbH +49-7025-1020
 Ikegami Electronics (USA) Inc 201-368-9171
 Image Video 416-438-3940
 James Grunder & Associates Inc 913-492-4666
 JVC +81 426-60-7560
 Light Wave Systems 818-780-3002
 Marshall Electronics
 Optical Systems 310-390-6608
 Microvideo USA Inc 203-393-0598
 MII 610-582-7560
 Mitsubishi Imaging Products 908-563-9889
 Optex +44(0)181-4412199
 Panasonic Broadcast & Television 800-524-0864
 PESA Switching Systems Inc 205-726-9200
 Philips Broadcast Television Systems +49(0)6155 870-0
 Photomart Cine-Video Inc 407-851-2780
 Sony Business & Professional 201-930-6576
 Sony Electronics 201-930-7834
 Sumitomo Electric USA Inc 310-782-0227
 Toshiba Corp +81(0)3 3457 3244
 Vicon Industries Inc 516-293-2200
 Video Engineering Ltd +44-171-434-9751
 Video Visions Inc/Delcom 215-765-8811
 Viewgraphics 415-903-4900
 Virtual Vision Inc 206-882-7878

VIDEO PROCESSING

A J Technology 617-969-0547
ASACA/ShibaSoku 310-827-7144
 Broadcast Video Systems Ltd 905-764-1584
 Chyron Corp 516-845-2026
 Colorado Video Inc 303-530-9580
Digital Processing Systems/DPS 606-371-5533
 Digital Vision Inc 310-914-5200
 Ensemble Designs 916-478-1830
 Genesis Microchip 415-428-4277
 Graseby Optronics 407-282-1408
 Image Logic Corp 301-907-8891
 Image Video 416-438-3940
 Intelvideo Inc 203-348-9229
 Intergraph Computer Systems 205-730-2000
Kramer Electronics 201-229-1059
Leader Instruments Corp 516-231-6900
Leitch Inc 757-548-2300
 Link Electronics Inc 573-334-4433
 MicroVideo Ltd +44(0)1223 8341 19
 Microvideo USA Inc 203-393-0598
 Multidyne Inc 516-671-7278
 Norpak Corp 613-592-4164
Nova Systems Inc 860-693-0238
 Philips TV Test Equipment +45 3288 5911
 Pixel Instruments Corp 408-354-9122
 Ross Video Ltd 613-652-4886
 System Video +44(0)1813 915678
 Techni-Tool Inc 610-825-4990
 Tekniche Inc 201-784-2288
 Tektronix Video & Network Div 800-547-8949
 Titus Technological Labs 860-633-5472
 VG Broadcast +44-1444-413443
 Video International Development Corp 516-243-5414
Videotek Inc 610-327-2292
 Videotex Systems 972-231-9200
 Wiltronix Inc 301-258-7676

VIDEO SERVERS

ADT (Applied Digital Technology) 352-338-0516
 AF Associates Inc 201-750-3000
 APS Professional Video Products 718-628-6800
ASC Audio Video 818-843-7004
 AVID Technology Inc 508-640-6789
 Channelmatic Inc 619-445-2691
 Command Corp 813-724-1220
 DT Electronics Ltd +44(0)1203-466500
 D-Vision Systems Inc 773-714-1400
Communications Div 408-553-3999
 IBM 914-642-5886
 Intergraph Computer Systems 205-730-2000
 McCurdy Radio Industries Ltd 416-248-6155
 MicroNet Technology Inc 714-453-6100
 Micropolis Corp 818-709-3300
Odetics Broadcast 714-774-2200
 Philips Broadcast Television Systems +49(0)6155 870-0
 Pioneer New Media Technologies 310-952-2111
Quantel Inc 203-656-3100
Sierra Design Labs 702-831-7837
 Sony Business & Professional 201-930-6576
 Sony Electronics 408-432-1600
 Spencer Technologies 818-840-0907
 Stone + Wire 617-441-8780
 Storage Concepts Inc 714-852-8511
 Sun Microsystems
 Interactive Services 415-969-1300
 Tektronix NewStar 608-274-8686
 Tektronix Video & Network Div 800-547-8949
 Thomson Broadcast 201-569-1650
 Wiltronix Inc 301-258-7676

VIDEO WALL SYSTEMS

BC Display Engineering 604-473-9065
 Command Corp 813-724-1220
 Electrosonic Systems Inc 612-931-7500
 Genesis Microchip 415-428-4277
 ict of North America 407-677-8100
 I-Den Videotronics Inc +81-3-3447-5220
 RGB Spectrum 510-814-7000

VIRTUAL SETS

Accom Inc 415-328-3818
 Chyron Corp 516-845-2026
 Command Corp 813-724-1220
 Discreet Logic 514-272-0525
 Play Incorporated 916-851-0800
 Softimage 818-365-1359
Videssence 415-579-7577
 Vinten TSM 914-268-0100

WEATHER SYSTEMS, SERVICES

AccuWeather Inc 814-234-9601
 Advanced Designs Corp 812-333-1922
 Alden Electronics Inc 508-366-8851
 Andrew Corp 708-349-3300
 Baron Services Inc 205-881-8811
 Colorado Video Inc 303-530-9580
Digital Graphix 201-845-8900
 Earth Watch Communications 612-476-9005
 Frequency Products Inc 415-364-0600
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 Kavouras Inc 612-890-0609
 Norpak Corp 613-592-4164
 Precision Specialties Inc 818-349-9774
 Spaceward Graphics Ltd +44(0)1353 741222
 Technosystem SPA +39(0) 6 2280396
 Texas Electronics Inc 214-631-2490
 Texscan MSI 801-359-0077
 Video Data Systems 516-231-4400
 Weather Central Inc 608-274-5789
 WSI Corp 508-670-5000
 Yamashita Engineering Mfg Inc +81 440462 288883

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Advent Communications Ltd +44(0)1494 774400
 Aluma Tower Co Inc 561-567-3423
 Antenna Concepts Inc 916-621-2015
 Arden Technologies Inc 954-730-0565
 AVCOM of Virginia Inc 804-794-2500
 Lawrence Behr Associates Inc 919-757-0279
 Comband/Microwave Filter Co 315-437-3953
 COMWAVE 717-474-6751
 Conifer Corp 319-752-3607
 Continental Microwave Ltd +44-1582-424233
 CPI Canada Inc 905-877-0161
 Dawn Satellite 810-391-9200
DW Electrochemicals Ltd 905-508-7500
EMCEE Broadcast Products 717-443-9575
 ERI - Electronics Research 812-925-6000
 Frequency Products Inc 415-364-0600
 Gabriel Electronics Inc 207-883-5161
 HM Electronics 619-535-6060
 ITS Corp 412-941-1500
Jampro Antennas Inc 916-383-1177
 LBA Technology 919-757-0279
 Meret Optical Communications 310-828-7496
 Micro Communications 603-624-4351
 Microwave Filter Co Inc 315-437-3953
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www.americanradiohistory.com

Broadcast Engineering Info Guide

ASSOCIATIONS

Audio Engineering Society (AES)

60 E 42 St.
New York, NY 10165-6437
Phone: 212-661-8528
Fax: 212-682-0477
CompuServe: AES 73277,1205

Federal Communications Commission (FCC)

Office of Engineering Technology
2000 M St. NW, Suite 480
Washington, DC 20554
Phone: 202-418-2470
Fax: 202-418-1944

Institute of Electrical & Electronic Engineers (IEEE)

Voice of America
3300 Independence Ave. SW
Washington, DC 20547
Phone: 202-619-3771
Fax: 202-619-3484

National Association of Broadcasters (NAB)

1771 N St. NW
Washington, DC 20036-2891
Phone: 202-429-5350
Fax: 202-429-5343

National Cable Television Association (NCTA)

1724 Massachusetts Ave. NW
Washington, DC 20036
Phone: 202-775-3550
Fax: 202-775-3696

Radio Television News Directors Association (RTNDA)

1000 Connecticut Ave. NW #615
Washington, DC 20036
Phone: 202-659-6510
Fax: 202-223-4007

Society of Broadcast Engineers (SBE)

8445 Keystone Crossing #140
Indianapolis, IN 46240
Phone: 317-253-1640
Fax: 317-253-0418

Society of Cable Telecommunications Engineers (SCTE)

140 Phillips Road
Exton, PA 19341-1318
Phone: 610-363-6888
Fax: 610-363-5898

Society of Motion Picture & Television Engineers (SMPTE)

595 W Hartsdale Ave.
White Plains, NY 10607-1824
Phone: 914-761-1100
Fax: 914-761-3115

CONVENTION CALENDAR

Feb. 6-9

SMPTE Winter Conference
(New York)
Phone: 914-761-1100
Fax: 914-761-3115

March 16-19

NCTA (New Orleans)
Phone: 202-775-3629
Fax: 202-775-1028

March 22-25

AES-Europe (Munich)
Phone: 212-661-8528
Fax: 212-682-0477

April 7-10

NAB (Las Vegas)
Phone: 202-429-5336
Fax: 202-429-5343

June 4-7

SCTE/Cable-Tec (Orlando)
Phone: 610-363-6888
Fax: 610-363-5898

June 12-17

20th Montreux International
TV Symposium (Montreux,
Switzerland)
Phone: +41 21 963 3220
Fax: +41 21 963 8851

July 10-13

ITS Forum (Beverly Hills)
Phone: 212-629-3266
Fax: 212-629-3265

Sept. 12-16

IBC '97 (Amsterdam)
Phone: +44 (0) 171 240 3839
Fax: +44 (0) 171 497 3633

September

Satellite Communications Expo
(Washington, DC)
Phone: 303-220-0600
Fax: 303-770-0253

Sept. 26-29

AES (New York)
Phone: 212-661-8528
Fax: 212-682-0477

Nov. 21-24

SMPTE (New York)
Phone: 914-761-1100
Fax: 914-761-3115

LOOK FOR

JANUARY:

- Remote broadcasting
- Video compression
- Penny-wise automation
- Preparing for disaster

FEBRUARY:

- Video servers
- Effects systems
- New camera technology
- Digital in post

MARCH:

- NAB preview
- BE's crystal ball
- Installing back-up power systems

APRIL:

- Facility automation & networking
- Studio lighting
- Digital telecom links

MAY:

- Video recorders
- Facility showcase
- Still-store technology
- Selecting an audio console

JUNE:

- NAB in review

JULY:

- New transmitter technology
- Intercoms
- Digital layering in post
- MMDS/LMDS

AUGUST:

- Videodisk recorders
- Routing & mixing digital audio
- Where does analog make sense?
- Titling systems

SEPTEMBER:

- Digital audio update
- Installing grounding systems
- Networking digital islands

OCTOBER:

- Editing systems
- 4:2:2 or 4:1:1. Who cares?
- Production suite technology
- HDTV update
- Salary survey

NOVEMBER:

- Test equipment for digital systems
- Maintaining satellite equipment
- Software engineering in facilities
- Budgeting for ATV

DECEMBER:

- Future watch
- Industry's top 50 engineers
- Fiber in production suites
- Facility routing systems.

Manufacturers Address Directory

A

Aarmor Case Co
2100 Lapo Road
Lake Odessa MI 48849
Tel: 616-374-5431; 800-722-5763
Fax: 616-374-8686

AAS

Advanced Audio Visual Systems

AAVS/Sencore

3200 Sencore Dr
Sioux Falls SD 57107
Tel: 605-339-0100; 800-769-2287
Fax: 605-335-6379

AAVS

222-226 rue de Rosny
F-93100 Montreuil France
Tel: +33 1 4988-3434
Fax: +33 1 4857 3358

ABC Audio Broadcast Group Inc
2342 S Division Ave
Grand Rapids MI 49507
Tel: 616-452-1596; 800-999-9281
Fax: 616-452-1652
E-Mail: support@abg.com
Web: http://www.abg.com

ABC Digital/Australian Broadcast
ABC Ultimo Ctr/700 Harris St #2007
Sydney Australia
Tel: +61 2 333 2209
Fax: +61 2 333 1413

Abit Ltd
Belgravia Workshops 159 Marlborough
#103
London N19 4NF England
Tel: +44 171 281 3815
Fax: +44 171 561 9622
E-Mail: bakerp@abit.co.uk

Acces I/O Products
9400 Activity Rd
San Diego CA 92126
Tel: 619-693-9005; 800-326-1649
Fax: 619-578-9711

Ac-cetera Inc
3120 Banksville Rd
Pittsburgh PA 15216
Tel: 412-344-8609; 800-537-3491
Fax: 412-344-0818
E-Mail: aaps@pgh.nauticom.net

Accom Inc
1490 O'Brien Dr
Menlo Park CA 94025
Tel: 415-328-3818
Fax: 415-327-2511
E-Mail: info@accom.com
Web: http://www.accom.com

Accurate Sound Corp
3475-A Edison Way
Menlo Park CA 94025
Tel: 415-365-2843
Fax: 415-365-3057

AccuWeather Inc
619 W College Ave
State College PA 16801
Tel: 814-234-9601; 800-566-6606
Fax: 814-231-0453
E-Mail: intemail@accuwx.com
Web: http://www.accuweather.com

ACE
31 rue de Verdun
F-78800 Houilles France
Tel: +33 1 3957 3010
Fax: +33 1 3957 5299

Acoustech
306 Maple Ridge #2
Ann Arbor MI 48103
Tel: 313-663-7013
Fax: 313-663-7013

Acoustic Sciences Corp
855 W 1st Ave
Eugene OR 97402
Tel: 541-343-9727; 800-ASC-TUBE
Fax: 541-343-9245

Acoustic Systems
415 E St Elmo St/PO Box 3610
Austin TX 78764
Tel: 512-444-1961; 800-749-1460
Fax: 512-444-2282

Acoustical Solutions
3603 Mayland Court
Richmond VA 23233
Tel: 804-346-8350; 800-782-5742
Fax: 804-346-8808
E-Mail: acoustic@richmond.infi.net
Web: http://www.acousticalsolutions.com

Acrodyn Industries Inc
516 Township Line Road
Blue Bell PA 19422
Tel: 215-542-7000; 800-523-2596
Fax: 215-540-5837

Adams-Smith
34 Tower St
Hudson MA 01749
Tel: 508-562-3801
Fax: 508-568-0404

ADC Telecommunications Inc
4900 W 78th St
Minneapolis MN 55435
Tel: 612-938-8080; 800-366-3891
Fax: 612-946-3292
Web: http://www.adc.com

ADCOM Electronics
310 Judson St #6
Toronto ON M8Z 5T6 Canada
Tel: 416-251-2748
Fax: 416-251-3977

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W Bloomfield MI 48325
Tel: 810-524-2100
Fax: 810-932-1991

Adobe After Effects
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Seattle WA 98104
Tel: 206-470-7000
Fax: 206-470-7125

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San Jose CA 95110-2704
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Las Vegas NV 89119
Tel: 702-896-1858
Fax: 702-896-3034

ADT (Applied Digital Technology)
3622 NE 4th St
Gainesville FL 32609
Tel: 352-338-0516
Fax: 352-338-1108
E-Mail: applieddigital@worldnet.att.net

Advance Products
PO Box 2178
Wichita KS 67201
Tel: 316-263-4231
Fax: 316-263-4245

Advanced Broadcast Systems
5825 Bullittsville Rd
Burlington KY 41005-0142
Tel: 606-689-0075
Fax: 606-689-0073
E-Mail: jbruffy@newwave.net

Advanced Broadcast Svcs
Victor Duncan
6305 N O'Connor #100
Irving TX 75039-3510
Tel: 972-869-0200
Fax: 972-869-2832
E-Mail: bf@vduncan.com
Web: http://www.vduncan.com

Advanced Designs Corp
1169 W 2nd St
Bloomington IN 47403
Tel: 812-333-1922
Fax: 812-333-2030
E-Mail: adc@doprad.com
Web: http://www.doprad.com

Advanced Digital Imaging
1250 N Lakeview #O
Ahaheim CA 92807
Tel: 714-779-7772
Fax: 714-779-7773

Advanced Marketing
PO Box 97
Redwood City CA 94064
Tel: 415-365-3944
Fax: 415-365-1630

Advent Communications Ltd
Nashleigh Hill
Chesham, Bucks HP5 3HE England
Tel: +44(0)1494 774400
Fax: +44(0)1494 791127

Adwar Video
303 Sunnyside Blvd
Plainview NY 11803
Tel: 516-349-1800
Fax: 516-349-1833

AEQ SA
C/Rey Pastor 36/P I Leganes
E-28914 Madrid Spain
Tel: +34 1 686-1300
Fax: +34 1 686-4492

Aerial Films Inc
35 Airport Rd
Morristown NJ 07960
Tel: 201-984-6680; 800-543-8947
Fax: 201-984-6899

AEV SRL via Saviolo I/E
Le Budrie di S Giovanni in Persiceto
I-40017 Bologna Italy
Tel: +39 51 950350
Fax: +39 51 950201
E-Mail: aevsales@aev.denct.it
Web: http://www.afaair.com/aev/

AF Associates Inc
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Fax: 201-784-8637
E-Mail: sales@afassoc.com

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Ridgefield Park NJ 07660
Tel: 201-440-2500
Fax: 201-440-2854

AHL Communications
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Ft Wayne IN
Tel: 219-426-6551; 800-426-6551
Fax: 219-426-0427

AIRcorp
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Fax: 972-304-0550

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Fax: 617-969-3889
E-Mail: ajtech@ajtechnology.com
Web: ajtechnology.com

AJA Video
200 Litton Dr # 310
Grass Valley CA 95945
Tel: 916-274-2048; 800-251-4224
Fax: 916-274-9442

Akai Digital
PO Box 2344 (1316 E Lancaster)
Fort Worth TX 76102-2344
Tel: 817-336-5114
Fax: 817-870-1271

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A-1230 Wien Austria
Tel: +43 1 866 54 0
Fax: +43 1 866 43258

AKG Acoustics/Harman Pro North
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1449 Donelson Pike Ste 12
Nashville TN 37217
Tel: 615-399-2199
Fax: 615-367-9046

Alamar USA Inc
1711 Dell Ave
Campbell CA 95008
Tel: 408-866-9373
Fax: 408-370-4861
E-Mail: alamar-usa.com

Alcatel Components
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Fax: +61 3 9553 3801

Alcatel STR AG
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CH-8055 Zurich Switzerland
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Fax: +41(0)1 465-3440

Alden Electronics Inc
40 Washington St
Westboro MA 01581
Tel: 508-366-8851
Fax: 508-898-2427

Alesis Corp
3630 Holdrege Ave
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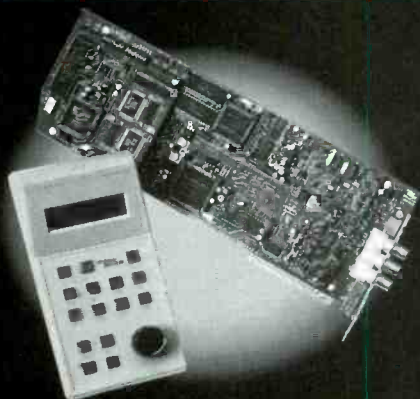
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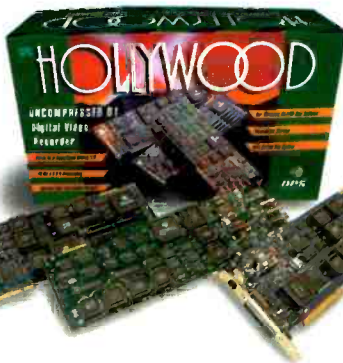
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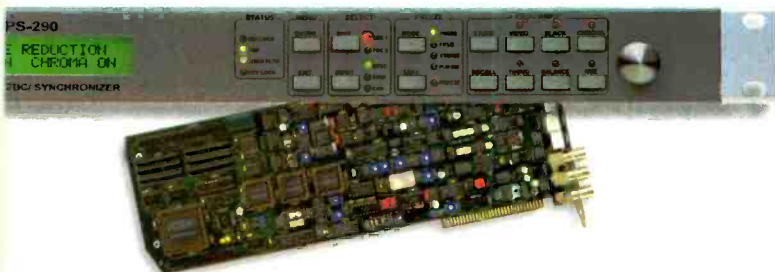
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Fax: 619-552-0139

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Fax: 604-299-6712
E-Mail: hnt@hntelecom.com

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Fax: 612-934-3604
E-Mail: sales@holadayinc.com
Web: http://www.holadayinc.com

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Fax: 310-372-6420

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E-Mail: horita@horita.com
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Campbell CA 95008
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Sanford FL 32771
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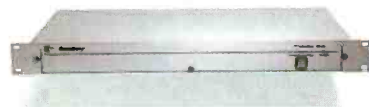
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37 Brook Ave
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Tel: 201-368-9171
Fax: 201-569-1626

Ikegami Tsushinki Co Ltd
JS Progress 4-1-23 Heiwajima,
Ohta-ku, Tokyo 143 Japan
Tel: +81(0)3-5762-5111
Fax: +81(0)3-5762-5110

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399 Java Dr
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Chicago IL 60607
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3 Darwin Close
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Tel: +44-1734-311030
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Greensburg PA 15601
Tel: 412-832-9855; 800-354-4747
Fax: 412-832-8999
E-Mail: iris@pgh.net

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26 Hotham Parade
Antarmon/Sydney 2064 Australia
Tel: +61 2 4393744
Fax: +61 2 439 7439

IRTE Spa
Via Pompei, 35
VA 21013 Gallarate Italy
Tel: +331 797286
Fax: +331 776082

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Sferracavallo
I-05019 Orvieto (TR) Italy
Tel: +39-763-316231
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ITI Electronics Inc
12 Kulick Rd, Fairfield NJ 07004
Tel: 201-882-6405
Fax: 201-882-6409

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Tel: 847-297-4200; 800-323-5925
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Joslyn Electronic Systems Corp
6868 Cortona Drive
Goleta CA 93116-0817
Tel: 805-968-3551; 800-752-8068
Fax: 805-968-2335
E-Mail: joslyn.electronic@industry.net
Web: <http://www.industry.net/joslyn.electronic>

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249 Kennedy Road Box 309
Greendell NJ 07839
Tel: 201-579-5773
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JT Communications
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Novato CA 94949
Tel: 415-883-5041; 800-231-8273
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Kaitronics Corp
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Santee CA 92071
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Kathrein-Werke KG
PO Box 10 04 44
D-83004 Rosenheim Germany
Tel: +49-08031-184-0
Fax: +49-08031-184-306

Kavouras Inc
11400 Rupp Dr
Burnsville MN 55337-1279
Tel: 612-890-0609; 800-328-2278
Fax: 612-882-4500
E-Mail: PSappanos@Kavouras.com

Kay Elemetrics Corp
2 Bridgewater Lane
Lincoln Park NJ 07035
Tel: 201-628-6200; 800-289-5297
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604 N Hill St
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Tel: 219-236-6220; 800-348-5257
Fax: 219-289-5932

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Fax: 310-845-3904
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Fax: 717-654-5765

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Borehamwood Herts WD6 4PJ England
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Fax: +44(0)181 953-1118

Kings Electronics Co Inc
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Tel: 914-793-5000
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E-Mail: ktl@kintronic.com

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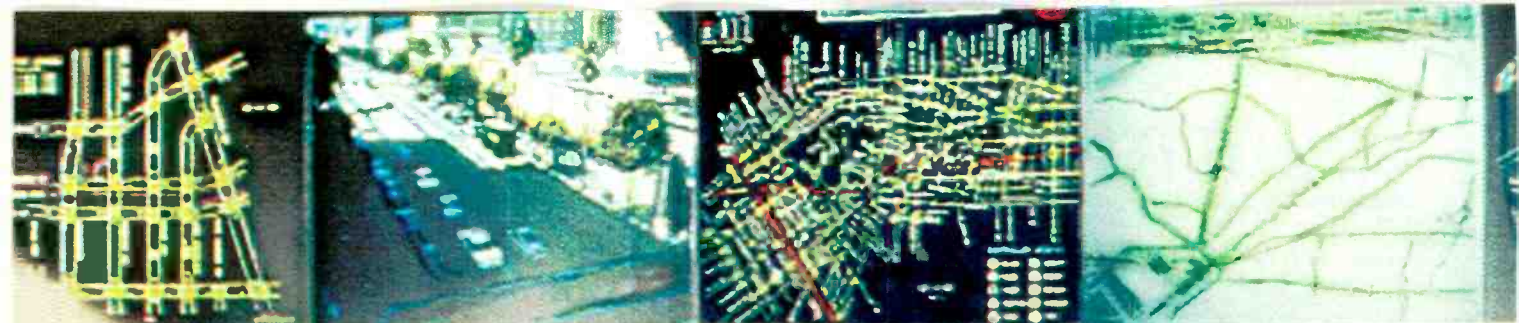
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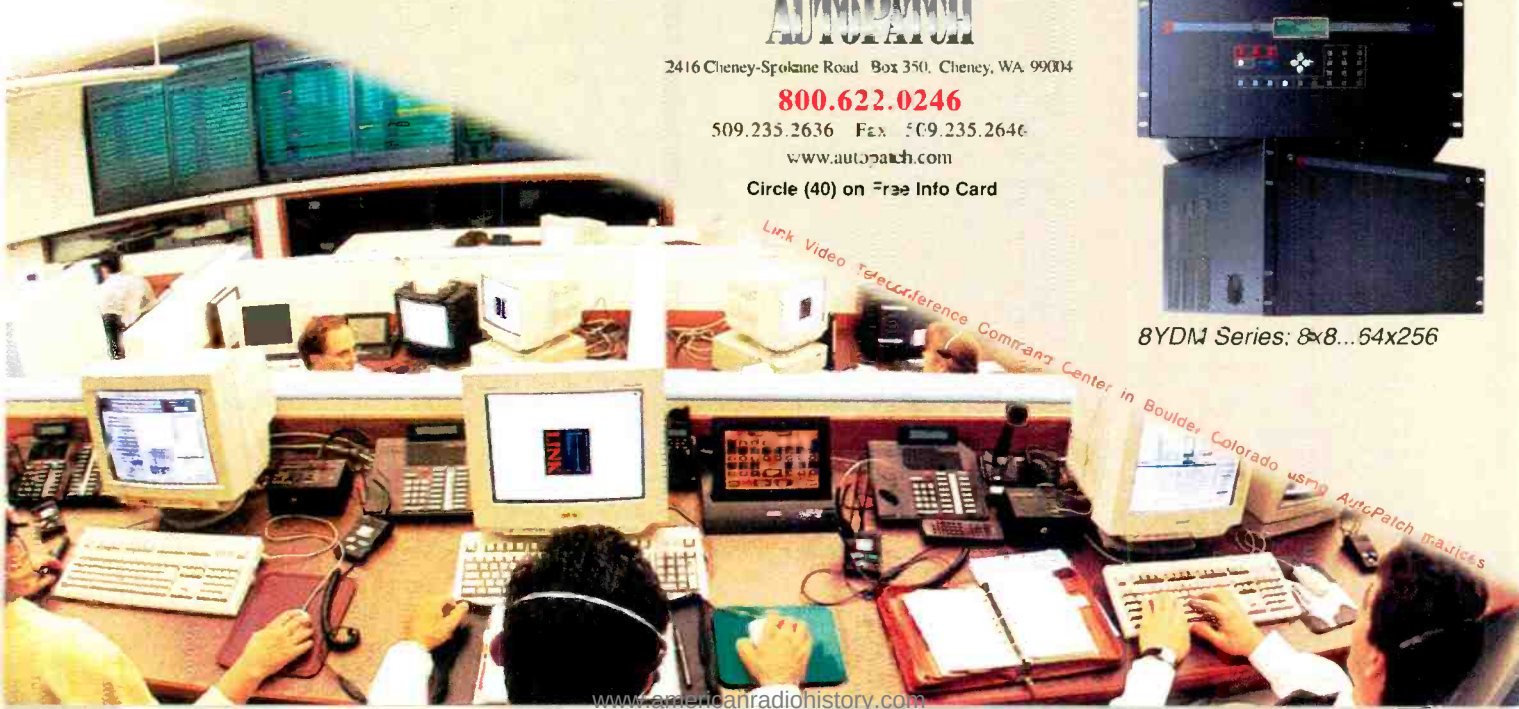
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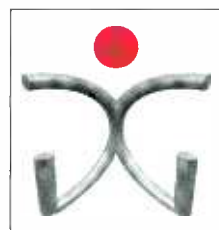
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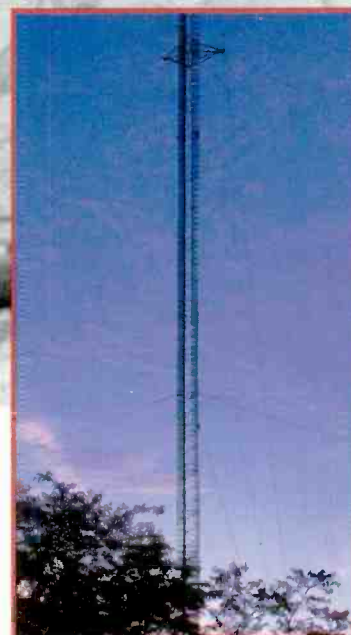
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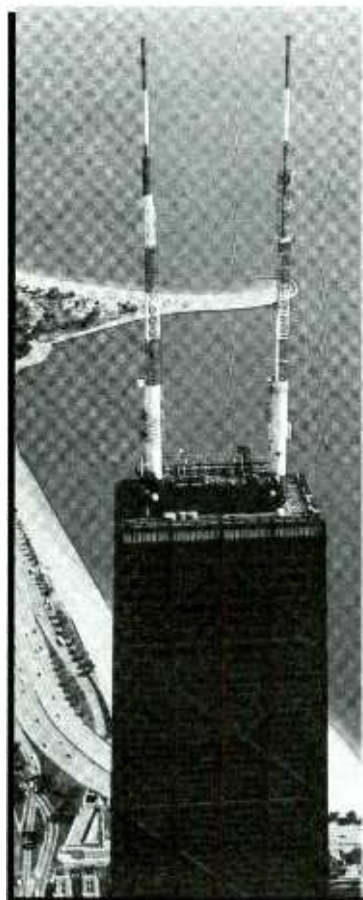
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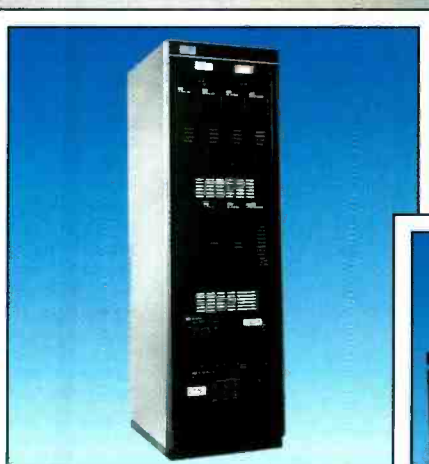
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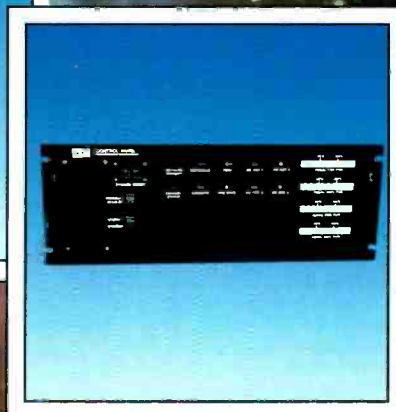


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Fax: 702-882-5381
E-Mail: rcisales@aol.com

Recortec Inc
1290 Lawrence Station Road
Sunnyvale CA 94089-2220
Tel: 408-734-1290; 800-729-7654
Fax: 408-734-2140

Redding Audio Inc
97 S Main St Unit 10
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Tel: 203-270-1808
Fax: 203-270-2934

Rees Associates Inc
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Oklahoma City OK 73112
Tel: 405-942-7337

Reeves A/V Systems Inc
227 E 45th St
New York NY 10017
Tel: 212-573-8652
Fax: 212-986-3591

Reflection Technology
230 2nd Ave
Waltham MA 02154
Tel: 617-890-5905

Register Data Systems
404 Gen Hodges Blvd (PO Box 980)
Perry GA 31069
Tel: 912-987-2501; 800-521-5222
Fax: 912-987-7595

Reliance Comm/Tec
PO Box 17438
Cleveland OH 44117
Tel: 800-245-4501

Reliance Plastics & Packaging
217 Brook Ave
Passaic NJ 07055
Tel: 201-473-7200
Fax: 201-473-1023

Renkus-Heinz Inc
17191 Armstrong Ave
Irvine CA 92714
Tel: 714-250-0166
Fax: 714-250-1035

Research Technology International
4700 Chase Avenue
Lincolnwood, IL 60646
Tel: 847-677-3000
Fax: 847-677-1311

Rextel Communications
PO Box 39
Mt Roland PQ J0R 1G0 Canada
Tel: 514-563-3969
Fax: 514-563-3969
E-Mail: rextel@sympatico.ca

RF Industries
7610 Miramar Rd
San Diego CA 92126
Tel: 619-549-6340; 800-233-1728
Fax: 619-549-6345

RF Specialties of California
3463 State St #229
Santa Barbara CA 93105
Tel: 805-682-9429
Fax: 805-682-5170

RF Specialties of Texas
PO Box 7630 (804 S Rusk)
Amarillo TX 79106
Tel: 806-372-4518; 800-537-1801
Fax: 806-373-8036

RF Specialties of Washington Inc
19237 Aurora Ave N
Seattle WA 98133
Tel: 206-546-6546
Fax: 206-546-2633
E-Mail: 74603.3342@compuserve.com

RF Systems Cablewave Systems Div
60 Dodge Ave
North Haven CT 06473
Tel: 203-239-3311
Fax: 203-234-7718

RF Technology Inc
16 Testa Place
South Norwalk CT 06854
Tel: 203-866-4283; 800-762-4369
Fax: 203-853-3513

RGB Computer & Video
4152 Blue Heron Blvd W #118
Riviera Beach FL 33404
Tel: 561-844-3348
Fax: 561-844-3699

RGB Spectrum
950 Marina Village Parkway
Alameda CA 94501
Tel: 510-814-7000
Fax: 510-814-7026
E-Mail: sales@rgb.com
Web: <http://www.rgb.com>

RIA Corp
50 E Malvern
Salt Lake City UT 84115
Tel: 801-486-8822
Fax: 801-486-2741

Richardson Electronics
40W267 Keslinger Road
LaFox IL 60147
Tel: 630-208-2200; 800-348-5580
Fax: 630-208-2550

Richmond Sound Design Ltd
1234 W 6th Ave
Vancouver BC V6H 1A5 Canada
Tel: 604-664-5860; 800-664-5861
Fax: 604-732-1234
E-Mail: kbd@theatre-sound.com
Web: <http://show-control.com>

Ringwood Associates Ltd
6F Caxton Trading Est
Printing House Lane
Hayes Middx UB3 1BE England
Tel: +44(0)181 5615949
Fax: +44(0)181 561-1122

The Rip-Tie Co
PO Box 77394
San Francisco CA 94107
Tel: 415-543-0170; 800-348-7600
Fax: 415-777-9868
E-Mail: mfennell@riptie.com
WWW: <http://www.riptie.com/vclrc>

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5101 N 57th St
Lincoln NE 68507-3141
Tel: 402-466-0933; 800-688-8377
Fax: 402-466-0967

RIZ-Transmitters Co
Bozidareviceva 13, PO Box 654
HR-10000 Zagreb Croatia
Tel: +385 41-232055
Fax: +385 41-231410

ROH'S Inc
2922 N Campbell Ave
Tucson AZ 85719
Tel: 650-795-8573; 800-526-8601
Fax: 520-325-0169

ROH Div/Fuller Mfg
6120 San Fernando Road
Glendale CA 91506
Tel: 818-500-0116
Fax: 818-240-1828

Rohde & Schwarz Inc
4425 Nicole Drive
Lanham MD 20706
Tel: 301-459-8800
Fax: 301-459-2810
Web: <http://www.rsd.de>

Rohde & Schwarz GmbH & Co Kg
PO Box 801469 (Mühldorferstraße 15)
D-81614 München Germany
Tel: +49-89-41292321
Fax: +49-89-41293396

ROHN
PO Box 2000
Peoria IL 61656
Tel: 309-697-4400; 800-225-7646
Fax: 309-697-5612

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15271 Barranca Parkway
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PO Box 37381
Cincinnati OH 45222
Tel: 513-761-8500
Fax: 513-761-9997

Rorke Data Inc
9700 W 76th St
Eden Prairie MN 55344
Tel: 612-829-0300; 800-328-8247
Fax: 612-829-0988

Rosco Labs Inc
36 Bush Ave
Port Chester NY 10573
Tel: 914-937-1300
Fax: 914-937-5984

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1061 Feehanville Drive
Mt Prospect IL 60056
Tel: 847-299-8080; 800-843-3679
Fax: 847-299-4206

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17 Mitchell Dr
Kings Point NY 11024-1237
Tel: 516-466-4172
Fax: 516-466-4172

Ross Video Ltd
PO Box 220/8 John St
Iroquois ON K0E 1K0 Canada
Tel: 613-652-4886
Fax: 613-652-4425
Web: <http://www.rossvideo.com>

RPG Diffusor Systems Inc
651-C Commerce Drive
Upper Marlboro MD 20772
Tel: 301-249-0044
Fax: 301-249-3912

RSC Electronics Inc
131 Laura
Wichita KS 67201
Tel: 316-267-5213; 800-456-6545
Fax: 316-267-8917

RTI-Research Technology Int'l
4700 Chase Ave
Lincolnwood IL 60646
Tel: 847-677-3000; 800-323-7520
Fax: 847-677-1311
E-Mail: rti.us.com

Ruslang Corp
320 Dewey St
Bridgeport CT 06605
Tel: 203-384-1266
Fax: 203-384-1267

The M S Russin Group Inc
7648 Lexington Club Blvd #A
Delray Beach FL 33446-3427
Tel: 561-496-0993
Fax: 561-496-1242

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RVP Inc
3050 N St Francis
Wichita KS 67219
Tel: 316-832-3428
Fax: 316-832-3493



Sabine Inc
13301 Highway 441
Alachua FL 32615-8544
Tel: 904-418-2000; 800-626-7394
Fax: 904-418-2001

Sachtler AG-Kommunikations-technik
Gutenbergstraße 5
D-85716 Unterschleißheim Germany
Tel: +49(0)89-32158-241
Fax: +49(0)89-32158-227



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corporation of america

Sachtler Corp of America
55 N Main St
Freeport NY 11520
Tel: 516-867-4900
Fax: 516-623-6844

Sadie Digital Editing
Studio Audio & Video
The Old School Strettham
ELY GB-CB6 3LD England
Tel: +44-1353-648-888
Fax: 44-1353-648-867
E-Mail: <http://194.72.60.69/www/sadie/index.htm>

SADIE Inc
1808 West End Ave #1119
Nashville TN 37203
Tel: 615-327-1140
Fax: 615-327-1699
E-Mail: 74204.1407@compuserve.com

Sage Alerting Systems Inc
700 Canal St
Stamford CT 06902
Tel: 203-357-1464
Fax: 203-357-1531

SAIC/Information Display Systems
4200 - M Lafayette Center Dr
Chantilly VA 22021
Tel: 703-802-7320
Fax: 703-802-7324

Saki Magnetics Inc
26600 Agoura Road
Calabasas CA 91302
Tel: 818-880-4054
Fax: 818-880-6242

Samson Technologies Corp
PO Box 9031
Syosset NY 11791-9031
Tel: 516-364-2244; 800-328-2882
Fax: 516-364-3888

Sandar Electronics AS
Box 1733
N-3208 Sandefjord Norway
Tel: +47 3345 9600
Fax: +47 3345 9333
E-Mail: sandar.info@sandar.no

SANIX

Sanix Corp
101-1-29-1 Kaminoge Setagaya-Ku
Tokyo 158 Japan
Tel: +81 3 3702-5315
Fax: +81 3 3702-9654

Sanken Microphones
1155 N LaBrea
W Hollywood CA 90038
Tel: 213-845-1155

Sanrex Corp/Micro Ups Div
309 White Horse Pike
Haddon Hts NJ 08035
Tel: 609-546-7744
Fax: 609-546-7720

Sanyo
21350 Lassen Lane
Chatsworth CA 91311-2329
Tel: 310-605-6527
Fax: 310-605-6529

Sascom Marketing Group
34 Nelson St
Oakville ON L6L 3H6 Canada
Tel: 905-469-8080; 800-300-4756
Fax: 905-469-1129
E-Mail: sales@sascom.com
Web: <http://www.sascom.com>

Sase Aberthry Systems
700 Ca St
Stam CT 06902
Tel: 203-357-1464
Fax: 203-357-1531

Satellite Export & Engineering
1007 Industrial Ave
Albion MI 49224
Tel: 517-629-5990
Fax: 517-629-6690
E-Mail: sepatiot@aol.com
Web: <http://www.sigweb.com/sepatiot.html>

SBE Society of Broadcast Engineers
8445 Keystone Crossing #140
Indianapolis IN 46240
Tel: 317-253-1640
Fax: 317-253-0418
E-Mail: <http://www.sbe.org>

SCA Data Systems Inc
2912 Colorado Ave #200
Santa Monica CA 90404-3642
Tel: 310-576-0655
Fax: 310-576-0566

Scala Electronic Corp
PO Box 4580
Medford OR 97501
Tel: 541-779-6500
Fax: 541-779-3991

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And, of course, the 9700XL continues our tradition of providing the rock-solid, mission-critical reliability you demand.

Also, as a leading-edge company, we provide leading-edge features. The 9700XL is the first scan converter offering a serial D1 output.

The 9700XL has all the features and performance you expect from Folsom Research, including:

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Miami FL 33129
Tel: 305-651-6241; 800-334-5083
Fax: 305-653-1355

Schmid Telecom AG
Binzstrasse 35
CH-8045 Zurich Switzerland
Tel: 41-1-456-1111; 41-1-456-1222
Fax: 41-1-461-4888

Schmid Telecommunication America
522 S Broadway
Gloucester City NJ 08030
Tel: 609-742-1878; 800-438-3953
Fax: 609-742-0485

Schneider Corp
400 Crossways Park Dr
Woodbury NY 11797
Tel: 516-496-8500
Fax: 516-496-8524

Schwem Division/Tinsley Laboratories Inc
3900 Lakeside Drive
Richmond CA 94806
Tel: 510-222-8110
Fax: 510-223-4534

Scientific-Atlanta
One Technology Parkway South
Norcross GA 30092-2967
Tel: 770-903-6163
Fax: 770-903-6246

Scientific-Atlanta Satellite TV Networks
4356 Communications Dr
Norcross GA 30093
Tel: 770-903-6057
Fax: 770-903-6464
E-Mail: Laura.Dunbar@Sciattl.com

Scientific Systems Inc
6003 Osuna Road NE
Albuquerque NM 87109
Tel: 505-883-4998
Fax: 505-893-5250

Scitex Digital Video
101 Galveston Drive
Redwood City CA 94063
Tel: 415-369-5111
Fax: 415-369-4777

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Chatham VA 24531
Tel: 804-432-0850; 800-874-7267
Fax: 804-432-0853

SCTE
669 Exton Commons
Exton PA 19341
Tel: 610-363-6888
Fax: 610-363-5898

Sealevel Systems Inc
PO Box 830
Liberty SC 29657
Tel: 864-843-4343
Fax: 864-843-3067
Web: <http://www.sealevel.com>

Seem Audio A/S
Postboks 233
N-1361 Billingstad Norway
Tel: +47 66 982700
Fax: +47 66 845540
E-Mail: seem@seem.no

Selco Products Co
7580 Stage Rd
Buena Park CA 90621
Tel: 714-521-8673; 800-257-3526
Fax: 714-739-1507

Sencore Electronics
3200 Sencore Drive
Sioux Falls SD 57107
Tel: 605-339-0100; 800-SENCORE
Fax: 605-339-0317

Sennheiser Electronic Corp
PO Box 987 (6 Vista Drive)
Old Lyme CT 06371
Tel: 860-434-9190
Fax: 860-434-9022
Web: <http://www.sennheiserusa.com>

Sennheiser elektronik KG
Am Labor 1
D-30900 Wedemark Germany
Tel: +49 5130-6000
Fax: +49 5130-6312
E-Mail: 106005,55@compuserve.com
Web: <http://www.sennheiser.com>

Sescom Inc
2100 Ward Drive
Henderson NV 89015-4249
Tel: 702-565-3400; 800-634-3457
Fax: 702-565-4828

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1400 N Shoreline Blvd
Mountain View CA 94043
Tel: 415-965-8020; 800-966-1034
Fax: 415-965-1193

Shallco Inc
PO Box 1089
Smithfield NC 27577
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8071 SW 184th Ave Lower Level
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Fax: 503-591-0224

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45 Winthrop St
Concord MA 01742
Tel: 508-371-7500; 800-358-6872
Fax: 508-371-7554

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PO Box 389
Bridgton ME 04009
Tel: 207-647-3327; 888 SHIVELY
Fax: 207-647-8273
E-Mail: sales@shively.com
Web: <http://www.shively.com>

Shook Electronics USA Inc
18975 Marbach Lane Bldg 200
San Antonio TX 78266
Tel: 210-651-5700
Fax: 210-651-5220
E-Mail: shook@shook-usa.com
Web: <http://www.shook-usa.com>

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Tel: 805-257-1444; 800-426-6284
Fax: 805-257-6197

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222 Hartrey Ave
Evanston IL 60202
Tel: 847-866-2200; 800-25-SHURE
Fax: 847-866-2279

Shuttlesound Ltd
4 The Willows Centre, Willow Lane
Mitchem, Surrey CR4 4NX England
Tel: +44(0)181687-2523
Fax: +44(0)181 646-7084

Siecor Corp
PO Box 489
Hickory NC 28603-0489
Tel: 704-327-5000; 800-743-2671
Fax: 704-327-5973

Siemens Audio Co
450 Lexington Ave #1670
New York NY 10017-3911
Tel: 212-949-2324
Fax: 203-792-7863

Siemens Audio Inc
Billington Road
Burnley Lancashire England
Tel: +44-1282-457011
Fax: 44-1282-39542

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2112 N Glenoaks Blvd
Burbank CA 91504
Tel: 818-840-6749
Fax: 818-840-6751



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999 Tahoe Blvd #1
Incline Village NV 89451
Tel: 702-831-7837
Fax: 702-831-5710

Sierra Video Systems Inc
PO Box 2462
Grass Valley CA 95945
Tel: 916-478-1000
Fax: 916-478-1105
E-Mail: sales@sierravideo.com

Sigma Electronics Inc
PO Box 448
E Petersburg PA 17520-0448
Tel: 717-569-2681
Fax: 717-569-4056

Silicon Graphics Inc
2011 N Shoreline Blvd MS 2L-455
Mountain View CA 94039-7311
Tel: 415-390-5016
Fax: 415-960-2457

Simpson Electric
853 Dundee Ave
Elgin IL 60120
Tel: 708-697-2260
Fax: 708-697-2272

Sintel - Systems International
205 S Hoover St #208
Tampa FL 33609
Tel: 813-287-8007
Fax: 813-287-1081

Skaggs Telecommunications Svcs
5290 S Main St
Murray UT 84107
Tel: 801-263-1370
Fax: 801-268-5860

SKB Case Co
2751 SE Monroe St
Stuart FL 34997
Tel: 561-288-7200
Fax: 561-288-7299

Skotel Corp
5695 Ch-St Francois
St Laurent PQ H4S 1W6 Canada
Tel: 514-333-7989
Fax: 514-333-6914
E-Mail: 72052.73@compuserve.com

Smarts Broadcast Systems
2102 Main St
Emmetsburg IA 50536
Tel: 712-852-4047
Fax: 712-852-3061

Smith and Fisher
1233 20th St NW #502
Washington DC 20036
Tel: 202-293-7742
Fax: 202-296-2429

Smith Audio-Visual Inc
310 SW 6th St
Topeka KS 66603-3109
Tel: 913-235-3481; 800-521-3936
Fax: 913-235-3485

SMPTÉ
595 W Hartsdale Ave
White Plains NY 10607
Tel: 914-761-1100
Fax: 914-761-3115
E-Mail: mktg@smpte.org

Snell & Wilcox
1289 Hammerwood Ave
Sunnyvale CA 94089
Tel: 408-734-1688
Fax: 408-734-4760
E-Mail: info@snell.co.uk

Snell & Wilcox
Durford Mill
Petersfield Hants GU31 5AZ England
Tel: +44(0)1730 821188
Fax: +44(0)1730 821199
E-Mail: info@snell.co.uk

Society of Prof Videographers
PO Box 1933, Huntsville AL 35807
Tel: 205-534-3600

Soft-Touch
400 N Columbus # 205
Alexandria VA 22314
Tel: 703-549-8445
Fax: 703-549-8583

Softech Systems
4032 Blackburn Lane
Burtonsville MD 20866
Tel: 301-989-2253
Fax: 301-989-8413

Softel Systems
Horseshoe Park, Pangbourne
Reading, Berks RG8 7JW England
Tel: +44(0)118-9842151
Fax: +44(0)1189-843939
E-Mail: sales@softel.co.uk
Web: <http://www.softel.co.uk>

Softimage
3510 boul St Laurent Ste 400
Montreal PQ H2X 2V2 Canada
Tel: 818-365-1359; 800-576-3846
Web: <http://www.softimage.com>

SoftWright LLC
1010 S Joliet Ste 204
Aurora CO 80012
Tel: 303-344-5486
Fax: 303-344-2811
E-Mail: sales@softwright.com
Web: <http://www.softwright.com>

Solder Absorbing Technology Inc/SAT
144 Oakland St
Springfield MA 01108-1787
Tel: 413-788-6191; 800-628-8862
Fax: 413-788-0490

Solid Electronics Laboratories
630 Greene Countrie Drive
Newtown Square PA 19073
Tel: 610-353-9449
Fax: 610-356-8449

Solid State Logic
Begbroke
Oxford OX5 1RU England
Tel: +44(0)1865 842300
Fax: +44(0)1865 842118

Solid State Logic Inc
320 W 46th St
New York NY 10036-8398
Tel: 212-315-1111
Fax: 212-315-0251

Solidyne
3 de Febrero 3254
Buenos Aires 1429 Argentina
Tel: +54 1 701-8622
Fax: +54 1 702-2375

H A Solutec Ltd
4360 Ileville St
Montreal Que H2H 2L8 Canada
Tel: 514-522-8960
Fax: 514-598-7808

SONDOR Willy Hungerbühler AG
Gewerbezentrum
CH-8702 Zollikon Switzerland
Tel: +41 1 391-3122
Fax: +41 1 391-8452

Sonex/Ilbruck Inc
3800 Washington Ave N
Minneapolis MN 55412
Tel: 612-520-3620; 800-662-0032
Fax: 612-521-5639
E-Mail: internet:
74260.3430@compuserve.com

Sonic Science
119 Spadina Ave # 767
Toronto ON M5V 2L1 Canada
Tel: 800-26-Sonic

Sonic Solutions
101 Rowland Way #110
Novato CA 94945
Tel: 415-893-8000
Fax: 415-893-8008

Sonifex Ltd
61 Station Road/Irthlingborough
Northants NN9 5QE England
Tel: +44(0)1933 650700
Fax: +44(0)1933 650726

Sonosax SA
Au Glapin
CH-1162 St-Prex Switzerland
Tel: +41(0)21 806-0202
Fax: +41(0)21 806-0299
E-Mail: sonosax@sonosax.ch
Web: http://www.sonosax.com/stelladat

Sony Broadcast International
Jays Close, Viabes
Basingstoke, Hants RG22 4SB England
Tel: +44-1256-55011
Fax: 44-1256-474585

Sony Business & Professional Group
3 Paragon Drive
Montvale NJ 07645-1729
Tel: 201-930-6576; 800-635-7669
Fax: 201-358-4058

Sony Electronics
3300 Zanker Rd
San Jose CA 95134
Tel: 408-432-1600
Web: www.sony.com

Sony Electronics
Sony Drive
Park Ridge NJ 07656
Tel: 201-930-7834; 800-SONY-022
Fax: 201-358-4058
E-Mail: Kallen@ccmail.nhg.sony.com
Web: www.sony.com

Sony Electronics Inc/Recording Media
680 Kinderkamack Rd
Oradell NJ 07645
Tel: 201-476-8000
Fax: 201-476-8072

Sorensen Co
9250 Brown Deer Road
San Diego CA 92121
Tel: 619-458-0259; 800-525-2024
Fax: 619-458-0237

Sound Designers Studio
424 W 45th St
New York NY 10036-3565
Tel: 212-757-5679
Fax: 212-265-1250
E-Mail: sounddesigners.com

Sound Ideas
105 W Beaver Creek Road #4
Richmond Hill ON L4B 1C6 Canada
Tel: 905-886-5000; 800-387-3030
Fax: 905-886-6800
E-Mail: info@sound-ideas.com
Web: http://www.sound-ideas.com

Sound Tech
255 Corporate Woods Parkway
Vernon Hills IL 60061
Tel: 847-913-5511; 800-USSOUND
Fax: 847-913-7772

Sound Technology Inc
1400 Dell Ave
Campbell CA 95008
Tel: 408-378-6540
Fax: 408-378-6847

Soundcraft/Harman Pro Group
Cranborne House, Cranborne Rd
Potters Bar, Herts EN6 3JN England
Tel: +44(0)1707 665000
Fax: +44(0)1707 660742
E-Mail: dharman@online.rednet.com.uk

Soundcraft/Harman Pro North America
1449 Donelson Pike Ste 12
Nashville TN 37217
Tel: 615-399-2199
Fax: 615-367-9046

Soundelux/Group One Ltd
80 Sea Lane
Farmington NY 11735
Tel: 516-249-1399
Fax: 516-753-1020
E-Mail: maria68@ibm.net

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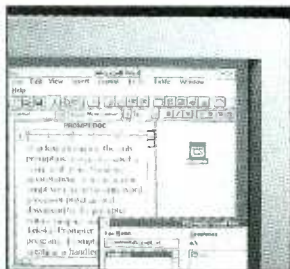
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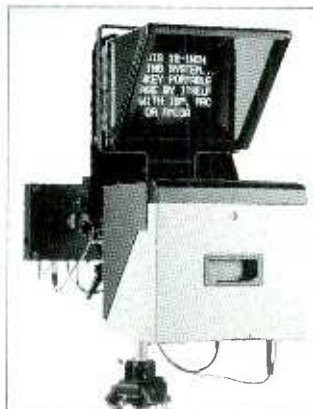
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E-Mail: pro.sound@telex.com
Web: www.telex.com

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2501 N Loop Drive
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Fax: 216-241-4103

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Fax: 352-376-3260

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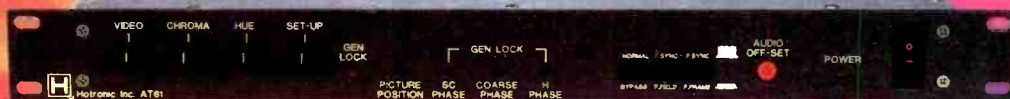
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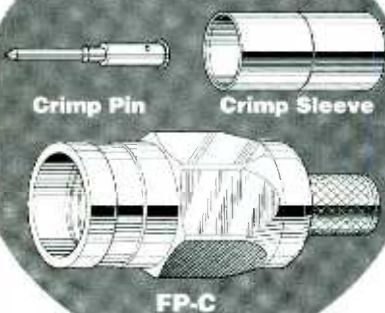
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Los Angeles CA 90004
Tel: 213-664-1144; 800-422-2444
Fax: 213-660-2856
E-Mail: vtp@vtpinc.com
Web: http://www.vtpinc.com



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243 Shoemaker Road
Pottstown PA 19464-6433
Tel: 610-327-2292; 800-800-5719
Fax: 610-327-9295
E-Mail: 72952.102@compuserve.com
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Web: http://www.videotexsystems.com

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Fax: 415-579-7579
E-Mail: videssence@aol.com
Web: www.videssence.com

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Mountain View CA 94043
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Fax: 415-969-6388

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Tel: 801-224-2222; 800-328-2738
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Fax: 714-770-6575

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Fax: 212-956-6528

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Fax: 419-243-8401

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Fax: 760-723-8844

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Logic Series DIGITAL Gold Mount Batteries

The Logic Series DIGITAL batteries are acknowledged to be the most advanced in the rechargeable battery industry. In addition to the comprehensive sensors integral to all Logic Series batteries, each DIGITAL battery has a built-in microprocessor that communicates directly with Anton/Bauer InterActive chargers, creating significant new benchmarks for reliability, performance, and life. They also complete the communications network between battery, charger and camera. With the network in place, DIGITAL batteries deliver the feature most requested by cameramen: a reliable and accurate indication of remaining battery power.

DIGITAL PRO PACS

The Digital Pro Pac is the ultimate professional video battery and is recommended for all applications. The premium heavy duty Digital Pro Pac cell is designed to deliver long life and high performance even under high current loads and adverse conditions. The size and weight of the Digital Pro Pac creates perfect shoulder balance with all cameras/camcorders.

- **DIGITAL PRO PAC 14 LOGIC SERIES NICAD BATTERY**
14.4v 60 Watt Hours, 5 1/8 lbs. Run time: 2 hours @ 27 watts, 3 hrs @ 18 watts
- **DIGITAL PRO PAC 13 LOGIC SERIES NICAD BATTERY**
13.2v 55 Watt Hours, 4 3/4 lbs. Run time: 2 hours @ 25 watts, 3 hours @ 17 watts

GOLD MOUNT BATTERIES

Logic Series Gold Mount batteries are identical to the respective DIGITAL versions with respect to size, weight, capacity, IMPAC case construction, and application. They are similarly equipped with micro-code logic circuits and complementary ACS sensors. They do not include DIGITAL microprocessor features such as the integral diagnostic program "Fuel Computer", LCD/LED display and InterActive viewfinder fuel gauge circuit.

- **PRO PAC 14 NICAD BATTERY** (14.4v 60 Watt Hours)
- **PRO PAC 13 NICAD BATTERY** (13.2v 55 Watt Hours)
- **TRIMPAC 14 NICAD BATTERY** (14.4v 40 Watt Hours)
- **TRIMPAC 13 NICAD BATTERY** (13.2v 36 Watt Hours)
- **COMPAC 14 NICAD BATTERY** (14.4v 40 Watt Hours)
- **COMPAC 13 NICAD BATTERY** (13.2v 36 Watt Hours)

sachtler

VIDEO 14/100 FLUID HEAD

- Sachtler Touch and Go System
- Integrated sliding battery plate
- Strengthened dynamic counterbalance in 2 steps
- Frictionless leak proof fluid damping with three levels of drag
- Vibrationless vertical and horizontal brakes
- Built in bubble for horizontal leveling

HOT POD TRIPOD SERIES

Especially developed for use in ENG, the Hot Pod tripod is the fastest in the world. The central locking system is activated on all three legs at the same time, while the pneumatic center column easily makes it possible to have the lens at a height of over 7 feet. The elevation force of the center column is factory set and doesn't require any setup. When moving to another location it can be carried by its handle located at the center of gravity.

ENG TWO-STAGE TRIPOD SERIES

Sachtler two-stage tripods have an enlarged height range (lower bottom and higher top position) so they are more universal. Legs can be locked in seconds with Sachtler's quick clamping. There are also heavy duty versions for extra stability. The heavy duty aluminum has a 20mm diameter tube vs. 16mm and the heavy duty carbon fiber has a 24mm diameter tube vs. 22mm. All heavy duty two-stage tripods have a folding tripod handle.

NEW ! Sachtler CADDY Systems

Now Sachtler quality is available to low budget users. The price of a CADDY system includes the new 7-step dampened CADDY fluid head, ultra-light but rugged carbon fiber tripod, lightweight spreader and either a soft bag or cover. The CADDY fluid head features an adjustable pan arm, 7 step adjustment for quick counter balance and the self-locking Sachtler Touch and Go System.

CAD 01
Single-Stage ENG Carbon Fiber System:

- CADDY Fluid Head
- ENG Single-Stage Carbon Fiber Tripod
- SP 100 Lightweight Spreader
- Transport Cover 100

CAD 2A
2-Stage ENG Carbon Fiber System:

- CADDY Fluid Head
- ENG 2-Stage Carbon Fiber Tripod
- SP 100 Lightweight Spreader
- Soft padded ENG Bag

Vinten

Vision SD 12 and SD 22
Pan and Tilt Heads with Serial Drag

The Vision SD 12 and SD 22 are the first heads with the "Serial Drag" pan and tilt system. The system consists of a unique, permanently-sealed fluid drag and an advanced lubricated friction drag. Now you can achieve the smoothest pans and tilts regardless of speed, drag setting and ambient temperature.

- Patented spring-assisted counter-balance system permits perfect "hands-off" camera balance over full 180° of tilt.
- Instant drag system breakdown and recovery overcome inertia and friction for excellent "whip pans"
- Consistent drag levels in both pan and tilt axis
- Flick on, flick off pan and tilt caliper disc brakes
- Greater control, precision, flexibility and "touch"
- Touch activated, time delayed illuminated level bubble
- Working conditions from as low as -40° up to +60°C.
- SD 12 weighs 6.6 lbs and supports up to 35 lbs.
- SD 22 weighs 12.7 lbs and supports up to 55 lbs.

Vision Two Stage ENG and LT Carbon Fiber ENG Tripods

The ultimate in lightweight and innovative tripods, they are available with durable tubular alloy (Model #3513) or the stronger and lighter, axially and spirally wound carbon fiber construction (Model #3523). They incorporate torque safe clamps to provide fast, safe and self-adjusting leg clamps.

- "Torque Safe" requires no adjustment. Its unique design adjusts itself when required, eliminating manual adjustment and maintenance and making for a much more reliable clamping system
- New hip joint eliminates play and adds rigidity
- They both feature 100mm levelling bowl, fold down to a compact 28", and support 45 lbs.
- #3513 weighs 6.5 lbs - #3523 CF (Carbon Fibre) weighs 5.2 lbs.



Vision 12 Systems

All Vision 12 systems include #3364 SD 12 dual fluid and lubricated friction drag pan/tilt head, single telescoping pan bar and clamp with 100mm ball base.

SD-12A System

- 3364-3 SD-12 Pan and tilt head
- 3518-3 Single stage ENG tripod with 100mm bowl
- 3363-3 Lightweight calibrated floor spreader

SD-12D System

- 3364-3 SD-12 Pan and tilt head
- 3513-3 Two-stage ENG tripod with 100mm bowl
- 3314-3 Heavy-duty calibrated floor spreader

Vision 22 Systems

All Vision 22 systems include #3386-3 SD-22 dual fluid and lubricated friction drag pan/tilt head, single telescoping pan bar and clamp with dual 100mm/150mm ball base.

SD-22E System

- 3386-3 SD-22 Pan and tilt head
- 3219-52 Second telescoping pan bar and clamp
- 3516-3 Two-stage EFP tripod with 150mm bowl
- 3314-3 Heavy-duty calibrated floor spreader

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Pro Video Equipment & Accessories	74	Pro Audio Equipment
Non-Linear Editing & Computer-based Video	731	Used Video Equipment
		732
		8
		75

JVC PROFESSIONAL

GY-X3 3-CCD S-VHS Camcorder

By employing professional camera technology in new economical ways, JVC has succeeded in bringing to market a professional 3-CCD camera that breaks all previous price barriers. The new GY-X3 delivers all the performance of a high end 3-CCD camera—high resolution, high sensitivity, low noise and natural color—at an incredible price.

Features:

- Three 1/3" CCDs provide a sensitivity of 2000 lux at F8.0, signal-to-noise ratio of 60dB and 650 lines of horizontal resolution
- Low light capability allows you to shoot in as little as 4 lux and still have bright pictures with good resolution and strong, vivid colors
- Full Auto Shooting (FAS) mode instantly adjusts to changes in shooting conditions. You can go from bright outdoors to indoor lighting and gain, iris, audio level and color balance will all be automatically adjusted.
- Variable Scan View allows flicker-free shooting of a computer monitor.

- Has a built-in 14:1 (5-57mm) continuously variable speed zoom lens. The amount of pressure applied to the rocker determines the speed of the zoom. Both the iris and zoom can be controlled manually if desired
- Built-in Control Track (CTL) time code generator as well as a time/date generator. The advanced CTL time code generator has a "scene finder" function that records an identification code each time you start taping. This lets you easily advance to the next or previous scene when using the JVC Edit Desk system.
- Large high resolution 1.5-inch viewfinder displays comprehensive status indicators.

GY-X2B 3-CCD S-VHS Camcorder

- Newly designed three 1/2" CCD image sensors deliver 750 lines of horizontal resolution and superb signal-to-noise ratio of 62dB
- Micro-lens technology provides exceptional sensitivity of F8.0 at 2000 lux and 1.0 LUX mode lets you shoot with almost no light! Shoot superb footage with excellent color balance at a mere 1.5 lux
- Variable Scan allows flicker-free shooting of a computer screen
- Full Time Auto White circuit lets you move from incandescent to fluorescent to outdoor lighting without changing white balance or the filter wheel
- Quick Record Mode - when turned on the camera is set to the auto iris even if lens is set at manual. Also activates Automatic Level Control and Extended Electronic Iris

which provides both variable gain and variable shutter. Shoot continuously from dark room to bright outdoors without having to adjust gain, iris or ND filter.

- Dual output system allows camera output to be connected directly to an external recorder

Panasonic
Broadcast & Television Systems

AG-DP800H SUPERCAM
S-VHS 3-CCD Digital Signal Processing Camcorder

Three high-density 380,000 pixel CCDs with half-pitch pixel offset achieves over 750 lines of horizontal resolution, a S/N ratio of 60dB and remarkable sensitivity of 18 at 2000 lux. Additionally the Frame Interline Transfer (FIT) CCDs minimize vertical smear, so you maintain impressive picture quality even in very bright illumination.

- Digital Signal Processing circuitry provides four valuable benefits
 - 1) Consistently reliable up-to-spec performance.
 - 2) Fine adjustment of a wide range of parameters.
 - 3) Memory storage and instant recall of specific settings.
 - 4) More flexible and higher quality image processing, as well as easier maintenance.

Some of the DSP circuits and their functions:

- **CHROMA DETAIL** - This function compensates for poor resolution in the high chroma areas of the picture.
- **DARK DETAIL** - Determines optimum degree of contour enhancement in dark areas to deliver crisp, natural-looking images
- **HIGHLIGHT COMPRESSION** - Expands the dynamic range of the highlighted areas and prevents halation. The highlight compression circuit allows a wide dynamic range producing detailed images even against bright background or daylight.
- **FLARE CORRECTION CIRCUIT** - Compensates for steady black caused by light or by a subject's movements.
- **Six Scene File modes**. There are two user modes for custom digital parameter settings including Horizontal Detail, Vertical Detail, Chroma and Dark Detail, and Color Correction. The four preset modes are normal, fluorescent, special and sparkling.
- In addition to regular AGC (Automatic Gain Control), Supercam has a Super High Gain mode. At F1.4 this enables shooting under illumination as low as 2 lux while retaining detail and color balance.
- **Synchro Scan** function allows flicker-free shooting of computer monitors. Electronic shutter increments can be set variably from 1/61 seconds to 1/253 of a second.
- Built-in internal time code generator lets you record with SMPTE LTC/VITC (Longitudinal/Vertical Interval) time code
- Two hi-fi stereo audio channels with a dynamic range of 80 dB, as well as two linear audio channels with Dolby NR. Normal/Hi-Fi recording is selectable. Uses XLR connectors to further ensure high-quality sound.
- Has a 26-pin connector on the back that outputs a composite or component video signal. This enables convenient backup recordings using an additional VCR equipped with a 26 or 14-pin connector.
- Phantom power can be supplied to an optional microphone. Power can be switched off to prevent battery drain when not in use.

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DIGITAL
PROCESSING SYSTEMS INC.

PVR-2500 'Perception'

Digital Video Recorder

The Heart of an Advanced Digital
Audio/Video Workstation



The PVR-2500 offers powerful features for awesome animation, morphing and rotoscoping capabilities. With features like 720 x 480 resolution, 10-bit 2x oversampled video encoding, better than D1 scaling, component and S-Video outputs, multi-processor support and integrated FAST SCSI-2 controller, it empowers your computer to rival the finest professional production studios.

- The PVR-2500 is a full-length PCI card with a FAST SCSI-2 controller which connects to one or up to seven dedicated hard drives. Because the SCSI controller is integrated with the PVR-2500, video data never has to go over the PCI bus during playback. This avoids the bottlenecks found in systems which use the computer's hard drive for video storage.
- Perception gets animations out of your computer fast and easy. Its exclusive multi-format virtual file system ensures complete integration with your Windows NT applications. Any acquired video or computer generated Perception video clips appear simultaneously in many different file formats including TARGA, SGI, BMP and IFF. Perception is compatible with: Lightwave 3D, Autodesk 3D Studio Max, Crystal Graphics TOPAS 5.1 PRO, Microsoft Softimage, Elastic Reality and others.
- Runs under Windows NT 3.5 on computers with Pentium, DEC Alpha or MIPS processors. Perception's software utilizes NT's native support for multitasking and multiple processors, allowing use with the most powerful computers.
- Perception performs real-time interpolation of 30 fps video to 24 fps film rates or vice versa. This means that it is also at home on the Hollywood movie set as well.

- Video output section utilizes 10-bit 2x oversampled encoding and provides broadcast quality CCIR-601 (720 x 480) resolution. Dynamic range is in excess of D1 scaling so images are brighter, have more color and greater spatial resolution than ever before. Component, composite and S-Video outputs are provided via the included breakout cables.
- Also control BVU protocol VCRs for video acquisition. VCR-like controls on the Perception's GUI simplifies the task of batch digitizing and recording. In this mode, the PVR-2500 can read SMPTE time code from the source deck.
- Can be used with any Windows NT compatible sound card while synchronization of audio and video is maintained by the PVR software. Captured audio is stored on the computer's system hard drive, not on the dedicated drives. This approach provides maximum flexibility for manipulating audio and video during editing.
- Can be used with third party editing software such as Adobe Premier, or in sync Speed Razor MACH III. In fact, a system equipped with the PVR-2500, AD-2500 capture card, a sound card, editing software & one or more SCSI drives becomes a non-linear editor of unparalleled performance - at an unbeatable price.

Bundled plug-in for Kinetics 3D Studio MAX

Every PVR-2500 includes DPS Lockstep software to provide significant control over 3D Studio MAX

- Frame buffer device rendering mode enables unlimited test renders without having to delete files.
- Easy control PVR parameters like preview sizes and pencil test options from within 3D Studio MAX. Device level support automatically sets screen size, aspect ratio, gamma, and other related PVR adjustments.
- Video, animations and stills on the PVR SCSI drive show up as PVDs or PSTs within MAX dialog boxes.
- Image selection, background and video post tools in MAX work like standard video streams.

- PVR image sequences show up in the viewports and shuttle with the frame selector bar in MAX.
- Offset and editing tools work natively.
- No more jumping out to the PVR Player or file manager. Lockstep provides direct support for selecting, playing, deleting and managing the PVR disk and files.
- By setting one check box in the rendering dialog, all network rendering machines can render directly to the PVR-2500 while maintaining the correct frame order. It couldn't be any easier.

AD-2500 Component Video Capture Card

Coupled with the AD-2500 live video capture daughter card, the PVR-2500 becomes a broadcast-quality digital disk recorder. It delivers unsurpassed picture quality and storage capacity is limited only by the size/number of attached SCSI hard drives.

- Has component, composite and S-Video inputs for real-time recording. Captured video can also be exported as sequential RGB files for rotoscoping and other compositing applications.
- Incorporates a sophisticated automatic entropy prediction circuit that analyzes the content of incoming video and dynamically calculates the optimum amount of compression on a field-by-field basis—even during real-time recording. You also have complete manual control over compression level/quality settings.

FX-2500 Perception Effects Accelerator

The FX-2500 significantly reduces the time required to render complex non-linear transitions. Although it doesn't deliver real-time transitions, it significantly improves the productivity of non-linear editing systems by dramatically speeding up the rendering time for many effects and transitions.

- A stand-alone PVR-2500 provides real-time cuts between video clips, but other transitions such as dissolves and wipes, substantial delay can occur. A 30 frame dissolve can take minutes to render, even with the fastest PC, because the host CPU processes source frames on a pixel-by-pixel basis. The Perception FX reduces the waiting time to under 10 seconds.

DAR-2500 Digital A4V Recorder

Featuring comprehensive audio post-production capabilities, the A4V (Audio for Video) board provides perfect video/audio synchronization when used with the PVR-2500. A full-length PCI card, the A4V's input and output connections are made via the supplied breakout cables while digital audio is stored on the system hard drive. And to ensure compatibility with third-party audio editing software, it plays and records standard compressed WAV files. It can also be controlled directly by video editing software like in sync's Speed Razor Mach III.

- Non-linear, non-destructive audio editing. No waiting for edits to compile.
- True audio scrub.
- Simultaneous record/playback. Play up to three stereo tracks while recording one stereo track.
- Mix four stereo source tracks down to two output channels in real-time.
- Four-band Parametric EQ for each channel (assignable by stereo pair).
- Real-time reverb and compressor/limiter. Additional effects can be easily added via software upgrades.
- Built-in LTC/VITC time code generator/reader/inserter lets you create window dubs with time code information superimposed over composite or S-Video signals.
- Unlimited audio editing capabilities with third party software.



Uncompressed 10-Bit D1 Video Disk Recorder

Hollywood is a PCI and ISA-based three card set that provides a D1 video recording solution for high-end animation, rotoscoping, and video/graphics compositing. Because such operations can require many passes, Hollywood avoids the use of any video compression which can progressively deteriorate images.

- Hollywood dramatically reduces the cost per minute for uncompressed video recording. Equipped with 4GB hard drives, typical Hollywood recording times range from 7 to 10 minutes. Compare the cost of Hollywood against competitive products which provide mere seconds of capacity.
- Equipped with serial D1 and component analog video. (Betacam/MI) inputs as well as composite and S-Video.
- Optional SD-2500 Serial D1 I/O option lets you interface the PVR-2500 directly to Hollywood. The SD-2500 provides one serial D1 input and two outputs plus a composite input.

- Can also function as a digital test signal generator, providing 20 different 10-bit digital test patterns.

PVR-2500 Digital Recorder	1599.00
AD-2500 Video Capture Card	849.00
FX-2500 Effects Accelerator	899.00
DAR-2500 Digital A4V Recorder	1295.00
Hollywood 10-bit Video Disk Recorder	CALL
SD-2500 Serial I/O Card	CALL



TRUEVISION TARGA 1000/2000 Digital Video Capture Boards for Windows, Windows NT and Macintosh PCI

The TARGA 1000 and 2000 are an easy and affordable way to transform your computer into a powerful digital editing system. Along with their high-speed PCI interface, both the TARGA 1000/2000 incorporate all you need to create spectacular multimedia content. They support NTSC and PAL standards and let you capture, edit and playback full-motion, full-resolution digital video with fully synchronized CD-quality audio. Designed for high performance IBM compatibles and Power Macs they deliver incredible processing speed for video and audio effects, titling and compositing.



TARGA 1000/2000 PCI for Mac is the premier open systems (QT 2.1 Native) video capture/playback and effects acceleration board on the market. They provide a flexible "plug-and-play" solution for video authoring, 3D animation and multimedia applications. Work on animation projects with software like Strata Studio Pro or Specular Infinite-D and video or CD-ROM authoring with Adobe Premiere and After Effects 3.0.

Advanced DVR (Digital Video Recording) Technology:

The TARGA 1000/2000 employ advanced DVR technology to deliver superior video performance. Unlike other systems that treat each frame of video as a block of data tied to a specific order of steps such as decompression-resize-compress-write to disk, DVR writes an entire frame of uncompressed video to the huge on-board 20 MB RAM buffer of the TARGA 2000 (8 MB RAM buffer of the 1000).

- This is a "memory-centric" approach, in which all board functions share access to the video buffer. For example, a DSP (digital signal processing) chip can scan for additional data, such as matching audio samples to video frames to help maintain lip sync. Transitions, filters, effects and/or resizing can also be applied while the uncompressed frame is in TARGA memory. The final output is then compressed and written to disk. Video data only crosses the bus twice—both times in compressed form. On other systems, the video data path is longer and more complicated. Video crosses the bus—twice uncompressed and twice compressed.
- The DVR architecture can access information in its memory buffer at a speed of 230MB per second. Video runs only at 2 to 7 MB per second, so the TARGA boards have all the time needed to decide what to do with each frame. And because uncompressed data is never sent across the bus, bottlenecks that plague other systems are eliminated.

TARGA 1000/2000 Features:

- Record and playback video directly to/from hard drive at full motion, full frame rates (50 fields/sec—PAL, 60 fields/sec—NTSC). Video is stored and played back at the highest resolution for each format (768 x 576 x 24 bit—PAL, 640 x 480 x 24 bit—NTSC). Compression can be adjusted on the fly to optimize for image quality and/or minimum storage space.
- Audio is digitized at 44.1KHz or 48KHz sampling rates, for professional quality stereo sound. Since all audio and video processing is done by on-board DSPs, you are assured of perfectly synchronized sound and images.

- Equipped with composite and S-video inputs/outputs. Also available with component input/output (TARGA 1000 PRO).
- Genlock using separate sync input for working in professional video suites.
- Optimized to work with Windows NT-based software (Adobe Premiere 4.2, in sync Speed-Razor MACH III).

Macintosh version only:

- Video capture plug-in for Adobe Photoshop.
- Quicktime 2.1 compatible, can be used directly out of the box with many applications.

TARGA 2000 Additional Features:

- Accelerated Windows 3.11 and Windows NT 3.51 display drivers offer integrated, true color (24-bit), non-interlaced desktop up to 1152 x 870 pixels.
- View your desktop and video-in a window on your non-interlaced monitor while the processed video is output at NTSC or PAL to a video monitor and/or a VCR.
- Provides a large work area for displaying video, as well as editing application controls. Any part of the display (or even the whole image) can be recorded to tape (video-out of a window).
- Equipped with composite and S-video inputs/outputs. Also available with component input/output (TARGA 2000 PRO).

TARGA 1000 for Windows or Macintosh PCI (specify)	1899.00
TARGA 2000 for Windows or Macintosh PCI (specify)	2899.00
Special! TARGA 2000 for EISA (PC)	999.00
Special! TARGA 2000 for Nubus (Macintosh)	1499.00

NEW! **TARGA2000 DTX/RTX**

The **TARGA 2000 DTX** (data throughput enhanced) is a next generation digital video solution that delivers unmatched speed/performance on the desktop, as well as offering a secure, flexible upgrade path to real-time digital video effects. The 2000 DTX offers an open systems architecture and an industry best data rate of up to 12 MB/second to deliver the most pristine video quality available on the desktop today—at any price. A single codec configuration of the award-winning TARGA 2000 RTX, the 2000 DTX is a perfect match for professional non-linear editing, compositing, animation, and 3D applications.



- Motion-JPEG codec: DVR architecture delivers near lossless quality video. Supports data rates up to 12MB/second (400 KB/frame NTSC).
- CCIR 601 720 x 486 NTSC and 720 x 576 PAL resolution support. Square pixel 640 x 480, 648 x 486 NTSC or 768 x 576 PAL resolution support.
- Synchronized audio and video in hardware.
- Balanced CD and DAT quality audio via XLR connectors with optional Breakout Box. The box can be utilized as a desktop device or rack mounted in a standard 19" rack.

- Drives both RGB and NTSC/PAL monitors simultaneously.
- On-board acceleration up to 600% of 19 popular Adobe Premiere transitions.
- Cross platform support for Mac QT and Windows NT.
- Video for Windows native file formats.
- Supports component YUV, RGB, S-Video and composite input and output.
- For those that will come to need non-linear A/R roll editing capability, there is also an upgrade path to the real-time effects processing of the TARGA 2000 RTX.

The **TARGA 2000 RTX** brings real-time processing and the highest I/O throughput to the desktop. It delivers real-time DVE, broadcast quality video, and professional I/O connections with support for industry standard video file formats under Mac/Windows NT operating systems. The system is designed to meet the needs of video professionals who are looking for an open-system solution for non-linear editing and desktop multimedia production.

- Processes digital video effects such as wipes, fades and dissolves in real-time. These common transition effects now require long render times using the host CPU for many computer-intensive tasks. On the RTX, these frames are created in real-time at full quality. Once frames are created by the RTX, they can be instantly output to tape at the high quality level demanded in professional broadcast applications—full motion 60 field NTSC and 50 field PAL broadcast quality video (300 KB/frame). Supports CCIR 601 as well as square pixel resolutions.
- Fully video-for-windows and QuickTime native, so all your current authoring applications supporting these standards will fly with TARGA.
- Drives both the video monitor and the RGB screen up to 21 inches at 24-bit color and supports full-motion previewing on both RGB and video displays for optimal video editing.
- Designed for easy integration into broadcast and post-production facilities, the 2000 RTX includes a breakout box which can be rack mounted or used as a stand alone device on the desktop. The box allows easy connection to Composite, S-Video or Component input/outputs as well as XLR balanced audio, genlock and alpha channel connections.

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A note about our turnkey systems:

In addition to the systems listed on this page, we can further customize any system to fit particular needs. You can choose faster display cards, bigger hard drives, more memory, larger monitors, better speakers, etc. We also carry a large variety of 2X and 4X CD-ROM writers (HP SureStore 4020i, Sony Spressa, FWB Hammer CD-Rs), RAID subsystems (Optima, FWB), portable storage devices (Iomega, Syquest) to name a few. Tell us what you need and our salespeople will custom-design a system for you. And if you happen to be in New York, please come and ...

Visit our expanded Video Store and Digital Video Showroom

SPEED RAZOR MACH 3.5

Digital Video Editor for Windows NT

The ultimate digital video editing software, Speed-Razor MACH 3.5 edits full screen, 60 fields per second, CGIR 601 broadcast-quality video. Designed for the DPS PVR-2500 and Truevision TARGA series video capture cards, Speed-Razor MACH 3.5 is the fastest and most powerful tool for editing and compositing video clips, animations, stills, music and sound effects.

Speed-Razor features infinite video, audio, transition and effects tracks and comes with Razor Blades—transitions and effects to enhance your production. There are preset tumblers, fades and wipes which you can easily customize and save as new presets. In addition, there are special image effects which are unquestionably the highest quality of any system—analogue or digital. Speed-Razor sports anti-aliased 3D DVEs, an infinite channel chroma keyer and an excellent character generator. Use the included effects or transitions, layer them to create new ones, make your own grayscale bitmaps to use as transitions, or use 3rd party plug-in effects—the flexibility is yours.

EDITING FEATURES:

- Real-time straight cut editing (this doesn't require a new file to be made and requires less space on the hard drive to edit)
- The only video editor with the ability to cut to the field
- Work in Thumbnail or Final Output resolution mode (you set the resolution for each)

COMPOSITING:

- Infinite number of layers of video clips, still and animations can be composited together
- Handles any resolution from Betacam (720 X 480) up to Omnimax film (4000 X 4000)
- Video clips can be combined using an alpha channel, key color transparency, still or tramping mattes

FILE FORMATS:

- Reads and writes ANI files (created by DPS' PAR), PVD files (Perception), DVM files (TARGA 1000 and 2000) and sequences of TARGA files
- Convert files between any of the following formats: ANI, PVD, DVM, AVI, BMP, TGA, FLC, FLI, WAV
- Project-based Library for organizing your work

There are two user definable resolution modes (thumbnail and final) to facilitate editing. The thumbnail mode allows you to use Speed Razor in the field on a laptop then transfer the project file back at the edit suite and automatically recapture and re-render the entire project at final resolution. RS-422 control and batch capture module allow you to automate video capture via SMPTE time code, so digitizing video and audio is simple and painless. In fact, with the innovative "Virtual Editing" function you can actually edit your project. Compositing with effects and transitions—before you've digitized a single frame of video.

AUDIO:

- Handles audio up to DAT (48 kHz) quality
- Infinite number of audio tracks for multi-layer audio mixing

EFFECTS:

- Blur (circular, gaussian, fast), tint, brightness adjustment, chroma key, crop, displacement, emboss, freeze frame, glass texture, greyscale, invert, loop, matte, pixelate, repeat fields, scale, transparency, strobe, turn red/green/blue
- 3D DVE (translates and/or rotates an image in three dimensions on the X, Y and Z axis)
- Sets a color channel to an assignable value)
- Titles (full blown CG using any Windows font in any color with automatic drop shadow)
- Sub-pixel rendering for incredibly smooth motion
- Effects can be applied to infinite sources

TRANSITIONS:

- Includes over 100 grayscale image transitions, crossfades, luminance fades, fade to/from black, fade to/from white, push, twist, twist in/out tumblers, flip, turn, scale (zoom)
- Transitions can be applied between infinite inputs

in:sync Speed Razor MACH 3.5 for DPS PVR-2500 and Truevision TARGA SeriesCALL

TARGA and DPS Windows NT Turnkey Systems:

- 220-watt, 6-bay midtower case
- PCI motherboard with 512K pipelined burst cache
- Pentium 166 MHz processor
- 9FX Motion 771 2MB VRAM PCI display card (TARGA 2000 Systems only)
- 9FX Motion 771 4MB VRAM PCI display card (DPS and TARGA 1000 Systems only)
- 32MB of EDO (Extended Data Out) RAM (Premiere systems only)
- 64MB of EDO RAM (Speed Razor systems only)
- Quantum 1.28GB IDE system drive
- Seagate (Barracuda) 4.2GB SCSI-2 FAST/Wide hard drive
- Adaptec AHA-2940LW FAST/Wide SCSI-2 controller card
- MediaTRIX AudioTRIX Pro DSP-equipped 16-bit audio card (for DPS systems only) • Teac CD-58e 8X EIDE internal CD-ROM drive
- 3.5" floppy drive • Altec-Lansing 300.1 three-piece deluxe speaker system
- Princeton Ultra 17+ high resolution 17-inch multiscan monitor
- Focus 2001A keyboard • Microsoft MS mouse • Windows NT 3.51 operating system software



TARGA 1000/Adobe Premiere 4.2.....\$6495	TARGA 2000/Speed-Razor MACH 3.5.....\$9595
TARGA 1000 Pro/Adobe Premiere 4.2.....\$6795	TARGA 2000 Pro/Speed-Razor MACH 3.5.....\$9995
TARGA 1000/Speed-Razor MACH 3.5.....\$7695	TARGA 2000 DTX/Adobe Premiere 4.2.....\$10,795
TARGA 1000 Pro/Speed-Razor MACH 3.5.....\$7995	TARGA 2000 DTX/Speed-Razor MACH 3.5.....\$12,595
TARGA 2000/Adobe Premiere 4.2.....\$7795	TARGA 2000 RTX/Adobe Premiere 4.2.....\$12,995
TARGA 2000 Pro/Adobe Premiere 4.2.....\$8295	TARGA 2000 RTX/Speed-Razor MACH 3.5.....\$14,795

*PVR-2500/AD-2500 w/Adobe Premiere 4.2.....\$6995 *PVR-2500/AD-2500 w/in:sync Speed-Razor.....\$7995

*PVR-2500 System Notes: 1) Does not include Adaptec SCSI-2 controller card (has built-in SCSI-2 port)
2) Includes Seagate Barracuda 4.2GB Narrow hard drive (doesn't accept Wide drives)

Expansions and Upgrades for All Systems:

Full Tower Case (10-bay).....add 100.00	Super Tower Case (12-bay).....add 200.00
Pentium Pro 200 MHz processor (256K cache) and Pro motherboard.....add 800.00	
Seagate Elite 9.1GB Narrow drive (for DPS).....add 800.00	Seagate Elite 9.1GB Wide drive.....add 900.00
MAG Innovision MXP-17F 17" multiscan monitor.....add 225.00	MAG MXP-21F 21-inch multiscan monitor.....add 1100.00

RAID ARRAYS

With Seagate or Quantum SCSI-2 Wide AV Hard Drives (pre-stripped for Windows NT), external case, 3' HQ cable and terminator)	
8.4GB Raid Array (Single channel with two 4.2GB drives).....\$2795.00	
12.8GB Raid Array (Single channel with two 9.1GB drives).....\$4695.00	
8.4GB Raid Array (Dual channel with two 4.2GB drives—one drive per channel).....\$3095.00*	
12.8GB Raid Array (Dual channel with two 9.1GB drives—one drive per channel).....\$4995.00*	
16.8GB Raid Array (Dual channel with four 4.2GB drives—two drives per channel).....\$4995.00*	

*Dual channel requires a second SCSI controller or the Adaptec AHA-2940LW Dual Channel Controller.

DATA TRANSLATION BROADWAY MPEG-1 Encoder

Broadway is a low-cost, real-time capture, edit and compression solution that makes adding video to your desktop applications a snap. Broadway seamlessly supplies MPEG-1 digitized video and audio to any Windows presentation, animation or multimedia authoring package. A true plug-and-play solution, you need no prior experience with digital video to install or use. Plus, its an all-in-one package so no additional boards, playback cards, monitors or sound cards are required beyond those standard in your multimedia PC.

Video Capture:

Broadway captures full-color, full-motion composite or S-video at 30 fps (frames per second) with synchronized audio. Video can be viewed in real time on your existing monitor and then digitized in real time, compressed to MPEG-1 frame only and stored on your hard drive in suitable MPEG-1 format. There are no dropped frames and no undesirable artifacts.

Compression:

A robust implementation of the MPEG-1 standard for digital video compression, Broadway includes three levels of encoding to achieve the highest quality video in the smallest possible file size (up to 200:1 compression). Video is compressed into the MPEG-1 standard at about three times real time or 3 minutes for every one minute clip. Broadway can also compress existing uncompressed .avi files from any video source without having to capture it.

Video Editing:

Incorporating hardware acceleration, Broadway allows you to cut, paste, save selection, replace audio, etc. in almost real time. You can also combine several video clips in one sequence and include simple transitions. For complex video editing and sophisticated transitions, Broadway is VFW (Video for Windows) compliant so you can use software like Adobe Premiere or Ulead MediaStudio.

Use With/Within Existing Software:

Take advantage of Broadway's full-motion video capture and MPEG-1 compression from within your favorite application environment. Broadway is accessed within packages such as Premiere and Media Studio by using Broadway's Capture and Compression dialog boxes. In addition, you can easily insert compressed video and audio into popular presentation and authoring packages. Broadway provides seamless integration with PowerPoint, Astound, Persuasion, Compel, Director, Action!, Adobe Premiere, Razor Pro and MediaStudio.

Bring Your Message To Life:

- Use Broadway for your Web site. MPEG-1 is ideal for the Web since its compressed to a size required by travel over low bandwidth channels—Web surfers won't have to wait a long time for video to appear.
- Use the power of full-motion video for sales, corporate and in the field presentations on your notebook
- Add excitement to your CD-ROM by using video and sound. MPEG-1 delivers VHS-quality at CD-drive rates. Also ideal for video arcades and computer-based training.
- Enhance your kiosk message by replacing text and still photos with MPEG video

\$795

MEDIA 100 QX

Media 100 qx is a high-performance digital video system that lets users of QuickTime-based applications create professional broadcast-quality video programs. It combines industry-leading image and audio quality with the industry's most popular editing program—Adobe Premiere. The result is broadcast-quality programs indistinguishable from Betacam—at an affordable price. Plus it offers an easy, software-only upgrade path to the advanced features and real-time functionality of professional Media 100 systems.

BROADCAST-QUALITY VIDEO:

Media 100 qx is based on Vincent, the same digital engine used in the professional Media 100. By using Vincent, Media 100 qx delivers image and audio quality indistinguishable from what thousands of professional Media 100 users get everyday. True broadcast quality, not available with any other QuickTime-based video editing product.

OPERATES IN YUV COLOR SPACE:

Vincent is a true video processing card that processes video signals in YUV color space avoiding the quality degradation inherent in RGB conversion. Media 100 qx Component) version offers broadcast-quality Y, R-Y, B-Y video input and output.

MEDIA 100 COMPATIBILITY:

Provides a software upgrade to the real-time editing functionality of the high-end Media 100. Clip and programs authored on Media 100qx can be used directly by Media 100 systems with no loss. Drag and drop files from one system to another.

SPECIFICATIONS:

- All digital, on-line video quality with data rates up to 200 Kbit/frame—equates to 6.0 MB per second
- Full-screen, full-motion video capture and playback at 30 fps (60 fields) NTSC and 25fps (50 fields) PAL
- Composite and S-video input and output. Also available with component input and output (Media 100 qx Component)

WORK WITH QUICKTIME APPLICATIONS:

Media 100qx runs seamlessly under QuickTime, providing communication between Media 100 qx and hundreds of QT applications such as Adobe Premiere and After Effects 3.0, Specular Infini-D and Strata StudioPro. QT integration lets you "drag and drop" files between multiple applications with no loss in quality.

FAST RENDERING:

Power of the Vincent board increases your productivity by accelerating the rendering of 20 of the most popular effects.

PLATINUM ONE-STOP SUPPORT SERVICE:

The most comprehensive service and support offerings in the industry. Choose from a full range of options including, unlimited toll-free telephone support, exchange loaner program, extended warranty and All-in-One Protection.

Media 100qx and TARGA 2000 DTX/RTX Power Mac Turnkey Systems

- Power Mac 8500 (256K cache) or 9500 (512K cache)
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- 2GB FAST SCSI-2 System Hard Drive (8500/150 only includes 1.2GB drive)
- Optima DiskCovary 8200 8.2 GB Dual Channel Disk Array
- AppleVision 1710AV 17-inch monitor with built-in speakers
- Adobe Premiere 4.2 Editing Software

Power Mac 8500/150 with Media 100qx.....\$11,495.00	Power Mac 8500/150 with TARGA 2000 DTX.....\$13,995.00
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Power Mac 9500/180 MP with Media 100qx.....\$12,995.00	Power Mac 9500/180 MP with TARGA 2000 DTX.....\$15,995.00
For systems with Media 100 qx Component.....add \$1500	For above systems with TARGA 2000 RTX.....add \$2200



Adobe After Effects 3.0

Post-Production Tool for Compositing,

Motion Graphics and Special Effects on the Macintosh

After Effects combines a powerful interface with high-quality output, giving you the ability to create sophisticated motion graphics on the desktop. Produce on-air promos and bumpers, commercials and music videos, animated titles and complex special effects—with the control, flexibility and savings the Macintosh provides.

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Tel: 512-389-3800, Fax: 512-389-1515

The Whitlock Group
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Richmond VA 23233
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Fax: 804-273-9380
Web: www.whitlock.com

Wide Band Engineering Co Inc
PO Box 21652
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Wide Range Electronics
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Fax: 201-652-7776

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Pacoima CA 91331
Tel: 818-890-3445; 800-821-0019
Fax: 818-890-4460

Ziehl Electronic Service
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Gasport NY 14067
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Broadcast Engineering

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Sue Horwitz
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FAX: (213) 965-1059
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