

Broadcast ENGINEERING

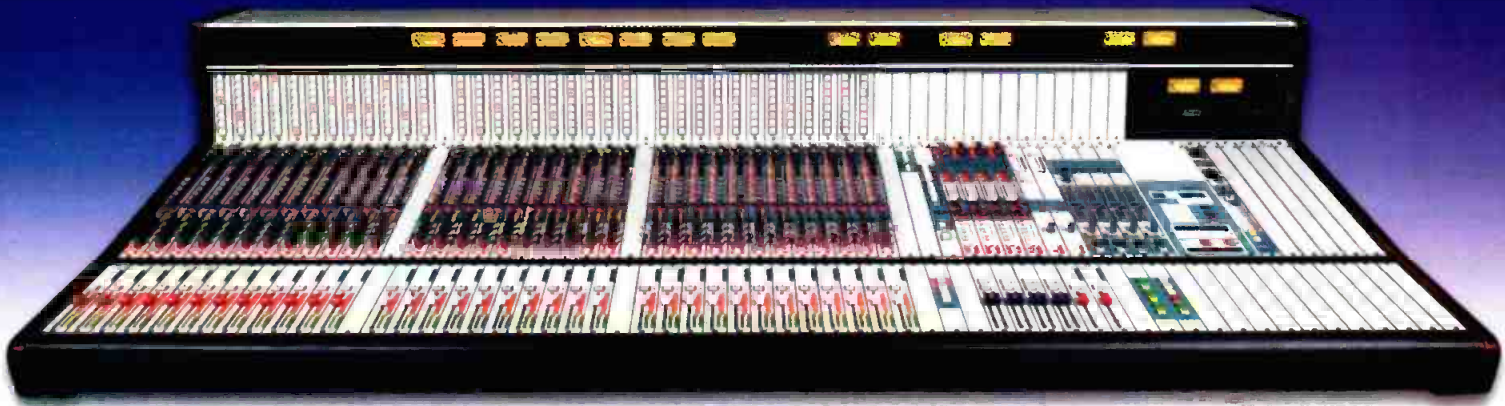
THE JOURNAL OF DIGITAL TELEVISION®

2001
BUYERS GUIDE



AND WEB REFERENCE

LIVE AUDIO for TV



When the News Breaks **FAST** Can Your Staff Pull It Together?

Today every television station needs serious news production capability—and WHEATSTONE's TV-80 is the perfect console for the job!

POWERFUL, with a clean traditional layout and computer assisted source selection, the TV-80 borrows heavily from its big brother the TV-1000 to give you the features you **NEED**: eight mix-minus busses to handle fast-breaking news events, and eight aux sends (PLUS eight submasters) for plenty of mixing power during big sporting events, elections and other special broadcasts.

DAILY SETUPS are fast and easy with the Wheatstone Event Computer, which can automatically access hundreds of sources via the console's preselector overbridge (a 36 fader console can handle over four hundred inputs); even inexperienced operators can be up and running in minutes! Alphanumeric displays above each fader track all selected sources—even those coming from your station's router.

AND because the TV-80 is available in a multitude of mainframe sizes, you can **scale** it to **match** your own **needs**, selecting the number of inputs and options **YOU** require. The totally modular design makes upgrades easy should future requirements expand.

Don't let fast-breaking news leave you behind! Contact WHEATSTONE to find out how this affordable console can give you the production power you need for today **AND** tomorrow!



Wheatstone's **EVENT COMPUTER** lets operators call up source presets by name for fast switchovers and routine daily set-ups. It can even communicate with your station router.

tel 252-638-7000/fax 252-635-4857
email: sales@wheatstone.com
website: www.wheatstone.com



Wheatstone Corporation
600 Industrial Drive, New Bern, North Carolina, USA. 28562

Circle (101) on Free Info Card
www.americanradiohistory.com



Bubblewrap, no challenge.
Taking advantage of the technology
inside, not so fast.

You have brand new, high-tech, shiny digital equipment. Now, how are you going to get the most out of it? Harris can help. Many broadcasters work with us to engineer transmitter systems, studios and mobile facilities with the latest digital technology. But we also reach beyond future-ready equipment solutions by leading the way with a unique package of support services—from transmitter installation and systems integration to round-the-clock technical support. And our Broadcast Technology Training Center provides customized DTV instruction to help your station make a smooth transition to digital. It's all from Harris. Because getting through the bubblewrap should be the hardest part of going digital.

next level solutions

WIRELESS

BROADCAST

GOVERNMENT

NETWORK SUPPORT

1-800-4-HARRIS ext.3042 ■ www.harris.com

Circle (104) on Free Info Card
www.americanradiohistory.com

HARRIS



Unify your facility with the star

0111 **1** Shoot MPEG on Betacam SX camcorders. 01010111100001 **2** Transcode to MPEG IMX for postproduction. 000110



SONY®

Standard that unified the world.

00010001 **3** Run MPEG on SDI routing switchers.111101MPEG010101 **4** Distribute MPEG via DTV, DVB or DVD.1101MP

Your present operation will be looking better than ever, thanks to MPEG technology. DTV, DVB and DVD all depend on MPEG. A growing list of broadcast equipment companies support MPEG. And a growing number of broadcasters are maintaining picture quality by implementing MPEG as the single compression algorithm throughout their facilities.

Sony can help make MPEG work for you. You can acquire in MPEG at 18 Megabits per second with rugged, cost-effective Betacam SX® camcorders. Then seamlessly transcode to all I frames at 50 Mbps, for superlative postproduction on MPEG IMX™ recorders and servers. Then route and switch MPEG Elementary Streams over SDTI-CP using the same infrastructure you already have for SDI. Then play to air from Sony MPEG servers. You can even manage your assets on the PetaSite® MPEG archive.

What's more, selected Sony VTRs can convert DVCAM®, consumer DV, DVCPRO® 25, Betacam® oxide, Betacam SP® and Digital Betacam footage into MPEG streams. Just pop in a tape and press Play.

Sony is no MPEG novice. We worked with other industry leaders to establish the MPEG 4:2:2 Profile. To standardize MPEG Elementary Streams. To build an open, interoperable MPEG platform. And we're continuing to consult broadcasters on three continents as we develop MPEG solutions.

It's no wonder that as the world turns increasingly to MPEG, broadcasters turn increasingly to Sony.

1-800-472-SONY ext. MPEG
www.sony.com/professional

**COMPLETE
THE
PICTURE**

product index	8
product directory	12
web addresses	84
manufacturer/ dealer addresses	96
systems integrator addresses	136

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

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

Fortunately, the answer to those questions is in your hands.

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

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

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

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

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

Good luck! Let us know how it goes.



Brad Dick, Editor

Solving the Digital Puzzle



Compact HD Downconversion

- ◇ HD/YPbPr to NTSC/PAL
- ◇ 1035i, 1080i, 1080p24SF
- ◇ 16:9 or Letter Box output
- ◇ Extracts DC power from camera

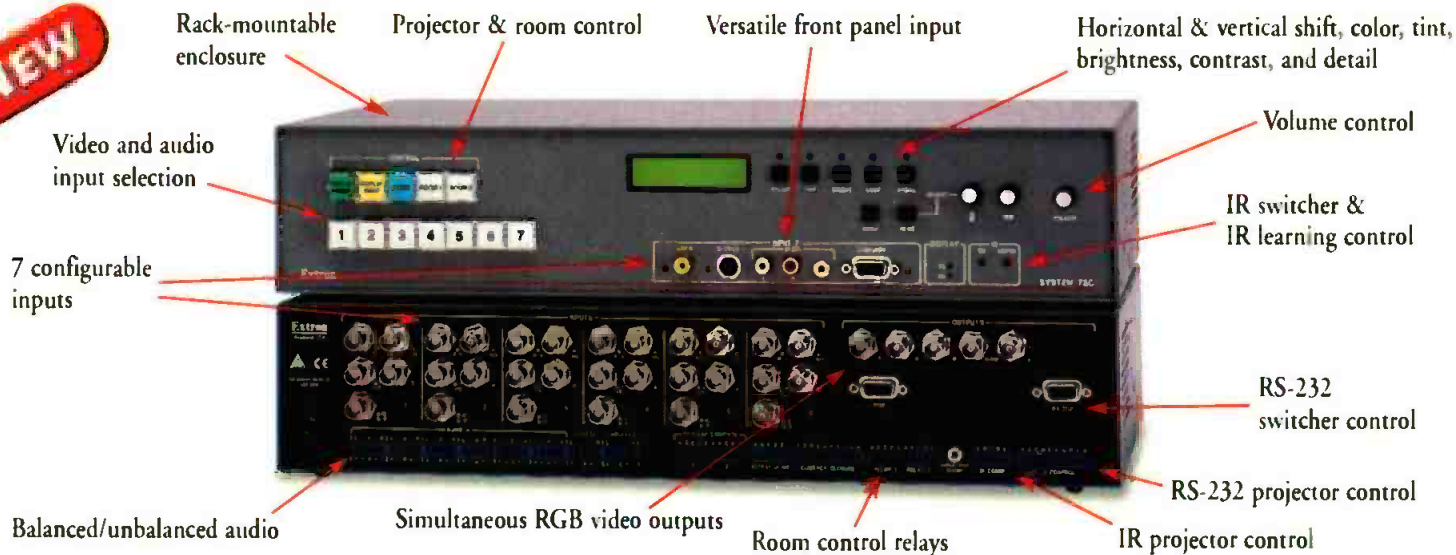
MDC Series

Monitoring Downconverter
For SONY HD-CAM™



Acoustic materials	12	Camera remote controls	24	Editing systems and components	70
Animation software	34	Camera Robotics & Virtual Sets	24	ENG microwave links	40
Aspect ratio converters	52	Camera Support	26	ENG trucks	66
Asset management systems	20	Camera support products (tripods)	26	Engineering software	50
Audio A/D-D/A converters	18	Cameras	24	Facility design services	136
Audio Accessories	12	Cameras & Accessories	24	Fiber optic cabling	82
Audio cable	82	CATV system components	24	Fiber optic transmitter/ receiver systems	40
Audio codecs	12	Character Generators & Prompters	26	Film Equipment	34
Audio codecs (telco)	40	Cleaning equipment/products	50	Frame synchronizers	52
Audio compression/encoding equipment	18	Commercial insertion equipment/software	79	Frequency conversion equipment	60
Audio compressor/expanders	16	Composite/component encoder/decoders	52	GPS equipment	66
Audio connectors	18	Compositing systems	44	Graphics & Animation Systems	34
Audio DAs	18	Compression encoder/decoders ..	68	Graphics software	34
Audio effects systems	16	Compression pre-processors	68	Graphics systems	34
Audio meters	12	Compression/MPEG test equipment	56	HDTV up/downconverters	52
Audio Mixers	16	Computer accessories	30	Headphones	12
Audio monitor amplifiers	12	Computer networking products ...	30	Interactive systems	40
Audio patch panels	12	Computer systems	30	Intercom & IFB Products	34
Audio playback devices	18	Computers & Peripherals	30	Internet production systems	40
Audio Processing	16	Control signal routers/ patch panels	73	Keyers	44
Audio RAM recorders	18	CRT projectors	72	LCD projectors	72
Audio Recording, Storage & Playback	18	Data multiplexers	30	Lens converters/accessories	34
Audio routers	18	Data storage systems	30	Lens systems	34
Audio Routing & Distribution	18	Data transmission systems	30	Lenses & Accessories	34
Audio test and measurement equipment	56	Desktop Video	32	Lighting Equipment	38
Audio/video mux/embedding equipment	18	Desktop video systems	32	Lightning protection products	44
Automation Systems	20	Digital Audio Workstations	32	Line doublers/quadruplers	72
Batteries	44	Disk recorders (audio)	18	Master clock systems	50
Battery analyzers	44	DLP projectors	72	Master control switchers	20
Battery chargers	44	Dummy loads	46	Media streaming equipment/ services	40
Broadcast cable equipment	24	Duplication Equipment	34	Microphone accessories	38
Bulk erasers	46	DVD systems	40	Microphones & Accessories ...	38
Cable management systems	50	DVEs	44	Microwave, Fiber Optic & Telco Equipment	40
Cable TV Equipment	24	EAS Products	66	MMDS products	60
Camcorders	24			Modular frame systems	82
Camera accessories	24				

NEW

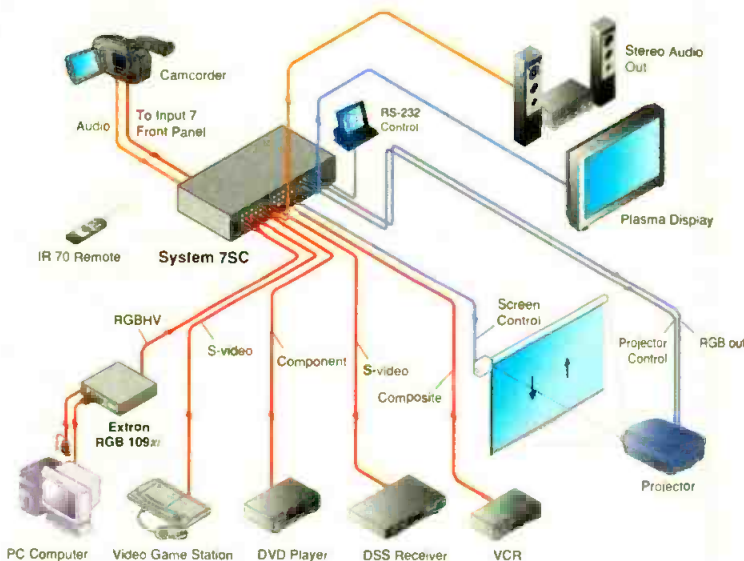


Extron® System 7SC

System Integration Scales to New Heights

Extron's System 7SC is a seven input, dual output, multi-format switcher with a built-in high performance video scaler. Universal projector control is provided, along with RGB and video integration capabilities ideal for any installation that uses digital or CRT displays. This system switcher incorporates Extron's exclusive Accu-RATE Frame Lock (AFL™) and Dynamic Motion Interpolation (DMI™) scaling technologies. AFL eliminates common frame rate conversion difficulties experienced during scaled motion video, such as image distortion or freezing. AFL ensures zero frame delay by locking the output frame rate to the input frame rate. DMI is an advanced motion prediction and compensation method that provides a new level of image enhancement capability with no loss of image fidelity. The System 7SC offers the following advantages:

- Seven fully configurable inputs accept composite, Y/C, component video, or RGsB, RGBS, or RGBHV computer video
- 350 MHz (-3dB) video bandwidth helps maintain signal integrity
- Upscales NTSC, PAL, or SECAM video, component video, and 480p signals
- Scaled RGB outputs are provided at industry standard computer-video, plasma, or progressive HDTV rates and resolutions to simplify system interconnection
- Universal IR or RS-232 projector control, remote IR learning capabilities, and IR remote control for easy operation
- Room control (lighting, screen settings, or other functions) via internal relays
- Horizontal and vertical shift, color, tint, brightness, contrast, detail, and vertical blanking controls for each input
- Balanced/unbalanced stereo audio with gain/attenuation on each input
- Extron's Simple Instruction Set (SIST™) for simplifying RS-232 control



Check out the System 7SC
Webcast demo at
www.extron.com/v/system7sc

Extron® Electronics

800.633.9876 • www.extron.com



Extron Electronics, USA
1230 South Lewis Street, Anaheim, CA 92805
800.633.9876 714.491.1500 FAX 714.491.1517
USA

Extron Electronics, Europe
Beeldschermweg 6C, 3821 AH Amersfoort
+31.33.453.4040 FAX +31.33.453.4050
The Netherlands

Extron Electronics, Asia
135 Joo Seng Rd. #04-01, PM Industrial Bldg.
+65.383.4400 FAX +65.383.4664
Singapore 368363

Extron Electronics Information
ExtronWEB™: www.extron.com
ExtronFAX™: 714.491.0192
24-hour access—worldwide!

Multimedia, CD-ROM & Internet Development 40

Nonlinear editors 70

On-air presentation systems 79

Outdoor display equipment 50

Pan/tilt heads 26

Plasma displays 72

Portable mixers 16

Power (AC) products 44

Power Products (AC & DC) 44

Power supplies 44

Production Switchers & Effects 44

PSIP and DTV data encoders 20

Racks/furniture 50

Recordable media (tape and disc) 46

Recording Media & Accessories 46

Remote control systems (transmitter) 60

RF combiners 46

RF Feedline, Components & Towers 46

RF test equipment 56

RF transmitting tubes 46

Robotic camera controls 24

Sample rate converters 18

Satellite Equipment 48

Satellite flyaway systems 66

Satellite receivers and antennas 48

Satellite uplink trucks 66

Satellite uplinks 48

Scan converters 52

Sound cards 12

Sound/music/image libraries 12

Speakers 12

Spectrum analyzers 56

Standards converters 52

Statistical multiplexers 68

Still/clip stores 79

STL/TSL links 40

Studio & Facility Accessories 50

Studio mixers 16

Surround sound accessories 12

Sync/test generators 56

Tape library systems 79

TBCs, Frame Syncs & Conversion Equipment 52

Telco interface equipment 40

Telecines 34

Telephone hybrids 40

Teleprompters and prompting software 26

Test & Measurement Equipment 56

Test equipment-general 56

Time base correctors 52

Time code equipment 66

Tools 50

Tower accessories 46

Tower lighting equipment 46

Towers 46

Transmission line (RF) 46

Transmission line accessories 46

Transport cases 50

TV aural modulation monitors 56

TV business automation (traffic systems) 20

TV exciters 60

TV facility automation 20

TV news automation systems 20

TV RF monitoring equipment 56

TV transmitters 60

TV Transmitters, Translators, Exciters & Antennas 60

TV transmitting antennas 60

Utility carts 50

VBI data software systems 66

VDRs (video disk recorders) 79

Vehicles & Remote Equipment 66

Video Accessories 66

Video A-D/D-A converters 52

Video analyzers 56

Video cable 82

Video captioning equipment 66

Video cards 30

Video Compression Equipment 68

Video connectors 82

Video DAs 73

Video Editing Systems 70

Video monitor parts and accessories 72

Video monitors 72

Video Monitors, Projectors & Accessories 72

Video noise reduction systems 68

Video patch panels 66

Video presentation equipment 72

Video processing amplifiers 73

Video Routing & Distribution 73

Video routing switchers 73

Video servers 79

Video Servers & Storage 79

Video walls 72

Virtual sets 24

VTRs (video tape recorders) 79

Waveform monitors/ vectorscopes 56

Weather/data systems 50

Wire, Cable & Connectors 82

Wireless mics 38

DPS-475™ / DPS-575™

The Baddest
Multi-Function Digital/Analog
A/V Synchronizers
Known To Man



Fear Not Any Feed!

Calling the DPS-475 and DPS-575 merely synchronizers is a bit of an injustice. We prefer the term "Audio/Video Synchronizer, Digital Noise Reducer, Bi-Directional Analog/Digital Transcoder, Framestore, Video Bandwidth Processor, Animated Logo Inserter, Linear Keyer, TBC, AGC, Audio/Video Test Signal Generator, VHS inserter and Serial Digital Audio Embedder/De-Embedder".

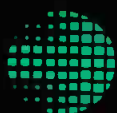
The DPS-475 (NTSC) and DPS-575 (PAL/NTSC) super synchronizers, with

their incredible array of features, are the hands-down next generation leaders. Let's talk facts. Proprietary DPS 12-bit adaptive 3D comb filter decoding and encoding ensure maximum signal transparency. Composite, Component, Y/C and SDI video I/O, optional 1394 (DV) I/O and available four channel audio synchronizer modules provide unprecedented system interface flexibility.

For signal timing performance, reliability and economy, the DPS-475 and DPS-575 are in a class by themselves.



Digi-Duplex™
Bi-Directional
Processing



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

DPS and the DPS logo are registered trademarks and DPS-475, DPS-575 and Digi-Duplex are trademarks of Digital Processing Systems, Inc. Features and specifications subject to change without notice.

Circle 13 on Reader Service Card

audio accessories

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

ADC/ Nvision

612-938-8080; 800-726-4266

New UniPatch

AKG Acoustics US

615-360-0499

* HSC200

* K270S

ATI-Audio Technologies, Inc.

215-443-0330; 800-959-0307

* BGD200/400VU/PPM NanoAmp series

DM200 Digital Monitor

HDA100

Audemat Inc

978-392-2110

Measurement On Line

Audio Accessories Inc

603-446-3335

Line of patch panels

Audio Processing Technology Ltd

+44 28 9037

BCF384

NXL384

Audio-Technica US Inc

330-686-2600

* ATH-M40fs & ATH-D40fs

Circle (333) on Free Info Card

Benchmark Media Systems

315-437-6300; 800-262-4675

* SPM 220/320

Circle (477) on Free Info Card

Beyerdynamic

631-293-3200; 800-293-4463

DT 231

Bogen Photo Corp

201-818-9500

Manfrotto microphone and speaker accessories

Circle (708) on Free Info Card

Boland Communications

949-367-9911; 800-918-9090

Digital uniVUer on-screen audio meter

Broadcast Video Systems

905-764-1584

DSA-100 SDI

Circle (652) on Free Info Card

Clark Wire & Cable

847-949-9944; 800-222-5348

* Line of patch panels

Clear-Com Systems

510-496-6666

CC-9S and CC-260

KB-211 and KB-211GM

Datatek Corp

908-654-8100; 800-882-9100

D2627 AES/EBU synchronizer

Digigram

703-875-9100

Multichannel Digital Audio Encoder

Dolby Laboratories Inc

415-558-0200; 800-33-DOLBY

* DPS62

* DPS69

* DPS71

* DPS72

Dolby Digital Recorder

DPS63

Ensemble Designs

530-478-1830

Avenue conversion system audio/video

Genelec Oy

+358 17 81

1029A/1091A Monitoring System

1030A

1038AC monitor

2029B

S30D

Gentner Communications Corp

801-975-7200; 800-945-7730

ScreenWin

Harrison by GLW

615-641-7200

SMS surround monitoring system

Henry Engineering

626-355-3656

* Matchbox II

* PortaMatch

* StereoMixer

* Twin Match

Horita Co Inc

949-489-0240

AM-S0

Independent Audio/Sonifex

207-773-2424

RB-SDI

Sonifex Digital Redbox line

Sonifex Redbox series

Lectrosonics Inc

505-892-4501; 800-821-1121

AM8/4

Circle (561) on Free Info Card

DSP4/4

Circle (653) on Free Info Card

Logitek

713-664-4470; 877-231-5870

* Mechanical and LED VU Meters

SV SI

Tru-VU

UV 7I

Modulation Sciences

732-302-3090; 800-826-2603

STV-784WB stereo generator

TSCA-198

Mohawk/CDT

978-537-9961; 800-422-9961

* Audio Breakout Boxes

Neutrik USA Inc

732-901-9488

Easy Patch

NADITBNC-F & FXQ

NADITBNC-M & MX

NPPA-TT

Prime Image Inc

408-867-6519

Cash

Twister

QSC Audio Products, Inc

714-754-6175

RMX series

RCS

914-428-4600

Tracker

Tracker audio logging system

RDL (Radio Design Labs)

805-684-5415; 800-281-2683

Digital audio interfaces

Sennheiser Electronics

860-434-9190

* HDR-8

WaveForm

bringing the latest
news and information from the
broadcast marketplace **FREE** to
your desktop every week.

Featuring
the latest news from
the publications you respect,
WaveForm has breaking news,
product reviews, tutorials, and
techniques for professionals
involved in broadcast. This colorful,
html-enhanced newsletter also
showcases the latest news and
product demos from the leading B2B
streaming news source, DMN TV.

Featured sites:

BERadio.com

DTVBuyer.com

HDTVBuyer.com

WBEOnline.com

BroadcastEngineering.com

Sign up now!

<http://www.digitalmedianet.com/register.htm>

Digital Media **NET**



RGB Video, Audio/Voice/Data Comm Links

The Latest in Fiber Optic Technology

Experience the Future *of Fiber Optic Broadcasting*

The DVX-5000 uncompressed digital transport system is opening up a new realm in broadcasting using advanced **DIGIBAND™** technology from Opticomm.

DIGIBAND™ DVX-5000
The Next Generation in Fiber Optic Transmission



DIGIBAND™
HDTV, DVB & SDI Systems

DVX-5000
Fiber Optic Serial Digital Video
Uncompressed Digital Transport

- Singlemode (1310, 1550nm) 20dB laser-based 40Km operation over one fiber
- Component Video per SMPTE 259M, 292M, ITU-R 601, CCIR 656
- 143/177/270/360/540/600Mb/s and 1.485 Gb/s Digital SDI/HSDI
- 10 Bit Code Uncompressed BER 10⁻¹⁴
- Complies with ANSI/SMPTE T14.22 4:2:2 & 4:4:4 data transmission
- Compatible with NTSC, PAL, and SECAM video signals
- Digital Audio AES/EBU Tech 3250E 24 bits
- Not susceptible to EMI or RFI & no ground loops
- Desk-Top Stand Alone or Rack-Mount

19" Rack Mount Chassis
12 Slots/1 PS & 10 Slots/2 PS Redundant

OPTICOMM designs and manufactures high quality baseband broadcast fiber optic video, audio and data transmission equipment. Our products offer solutions to a wide range of applications demanding high quality transparent fiber optic transmission.

OPTICOMM Corporation
6046 Cornerstone Ct. W. #209
San Diego, California 92121
(858) 450-0143
fax (858) 450-0155
info@opticomm.com
www.opticomm.com

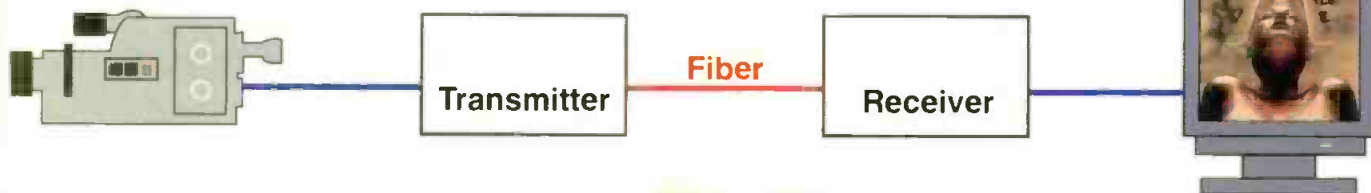


OPTICOMM

OPTICAL FIBER NETWORK SYSTEMS

RGB Video, Audio/Voice/Data Comm Links

The Latest in Fiber Optic Technology



**Full Duplex T3 & E3
Fiber Optic Data Link**



**CCTV Video Mini/Micro/Std
Composite & Mono/Sync Link**



**High Resolution RGB-Video HDTV,
VGA, SVGA RGB/SUN/SGI/HP**



**Dual/Quad/Eight Channel FM
Video/Audio/Data MUX Link**



**Micro Data 8 Channel MUX Data
Voice, TTL, Contact Systems**



**DTCR-1, 2, 4, 7 Desk-Top Card
Rack and 19" Rack Mount Chassis**



**Duplex Video FM with Multiple (Stereo)
Audio and/or Data for PTZ Link**



**Video FM with Simplex (Stereo)
Audio or Data for PTZ Link**

**Video FM with Simplex (Stereo)
Audio or Data for PTZ Link**



Opticomm Corporation 6046 Cornerstone Ct. W. #209 • San Diego, California • 92121
Phone (858) 450-0143 • www.opticomm.com • Fax (858) 450-0155

Circle (109) on Free Info Card
www.americanradiohistory.com

Sonifex Ltd

+44 1933 650

PCXtender

RB-MM1

RB-SD1

Redbox line

DNW-A220

Sony Electronics

201-930-1000; 800-686-SONY

AMS-100

Circle (562) on Free Info Card

Switchcraft Inc

773-792-2700

APP, front access, digital APP series

Tannoy/TGI North America Inc

519-745-1158

Proto-J

Reveal Active

Speakers

Tannoy System 800A Nearfield

Monitor

TC Electronic

805-373-1828

System 6000

Telex Communications

952-884-4051; 800-392-3497

HR-1/HR-2

Walters-Storyk Design Group

914-691-9300

Acoustical and architectural design & consultation

Whirlwind

888-733-4396

Variety of custom punched, engraved panels

Wohler Technologies Inc

650-589-5676; 888-596-4537

* ATSC surround sound audio monitors for 5.1 applications

* ATSC-3 AC-3 audio monitor

* Full line of level and phase metering products

* In-rack, self-powered amplified speaker systems

* LM-106-6 AC-3

Dolby Digital AC-3 level metering system

Dolby E Monitoring system

E-Mon-1

Yamaha Corp of America

714-522-9011

MSP5/10

SW10

audio mixers

Includes: Portable mixers; Studio mixers

ATI-Audio Technologies, Inc.

215-443-0330; 800-959-0307

* MSX100, MX100 NanoAmp series

* MX101

Audio-Technica US Inc

330-686-2600

SmartMixer

Circle (759) on Free Info Card



Alpha 100

Calrec Audio Ltd

+44 1422 842

* Alpha 100

Circle (327) on Free Info Card

* X Series

Circle (532) on Free Info Card

Harris Corporation, Broadcast Communications Div.

513-459-3400; 800-622-0022

Harrison by GLW

615-641-7200

* Digital Series Twelve

* Digital Engine

* TV5.1

PRO-950

Klotz Digital America

678-966-9900

* VADIS DC digital audio console

Paradigm

Vadis Core 220

Vadis DC

Vadis DC II

Vadis DC II

Vadis DC radio production console

Logitek

713-664-4470; 877-231-5870

* 108D

* NUMIX Digital Mixer (up to 64 Channels)

* VMixNet software

Shure Inc

847-866-2200; 800-25-SHURE

* FP33

* FP410

* M367

Solid State Logic Inc

212-315-1111

* Avant

* Axiom-MT

* Aysis Air

Aysis Air Mobile

MixTrack

Studer Professional Audio AG

+41 1 870 75

D950 M2

On-Air 1000 Digital Broadcasting

Console

Telex Communications

952-884-4051; 800-392-3497

Midas XL-4

Videonics

408-866-8300; 800-338-3348

MXProDV



TV-80

Wheatstone Corp

252-638-7000

* TV-80

Circle (504) on Free Info Card

Whirlwind

888-733-4396

Mix-6

Yamaha Corp of America

714-522-9011

01V digital mixing console

02R

03D

MX 12/4

PM1D

audio processing

Includes: Audio compressor/expanders; Audio effects systems

Aphex Systems

818-767-2929

Big Bottom Pro plug-in

Color indicates advertisers

* DTV/HDTV ready products



Performance & Support

When you really get down to business, it makes sense to talk to Calrec.

Calrec produce **DIGITAL** and **ANALOGUE BROADCAST CONSOLES** for the 21st century. Through Network Operations, Local Stations and Independent Remote production companies, America listens to Calrec every day. In our 35 years of experience in Broadcasting, we have continuously pushed the boundaries. Our craftsmanship and cutting edge technology produce the highest quality products, backed by an unrivalled support team. A growing number of Broadcasters are choosing Calrec based on the performance of our products and our people.

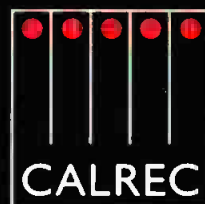
WHEN YOU REALLY GET DOWN TO BUSINESS, IT MAKES SENSE TO TALK TO CALREC.

FOR FURTHER INFORMATION CONTACT

Studio Consultants (New York) Tel : (212) 586 7376 Fax : (212) 582 2169 e-mail : scidoug@aol.com
Redwood (LA & Nashville) Tel : (615) 871 0094 Fax : (615) 872 7080 e-mail : redwood@isdni.net

CALREC AUDIO LIMITED

Nutclough Mill, Hebden Bridge, West Yorkshire, HX7 8EZ, UK
Telephone : +44 (0) 1422 842159, Fax : +44 (0) 1422 845244 E-mail : enquiries@calrec.com Website : www.calrec.com



Axon Digital Design BV

+31 13511 6666
ADL-200

FM Systems Inc

714-979-3355; 800-235-6960
* ALM771

Orban

510-351-3500
Optimod-DAB 6200 (2 channel DTV)
* Optimod-DAB 9200 (2-Channel DTV)

Prime Image Inc

408-867-6519
Cash

SADiE Inc

615-327-1140
Mastering Limiter Plug-in

Shure Inc

847-866-2200; 800-25-SHURE
DFR11EQ

TC Electronic

805-373-1828
* DBMAX
* Finalizer 96K

audio recording

Includes: Audio playback devices; Audio RAM recorders; Audio recorders/players (ATR, MD, etc.); Disk recorders (audio)

360 Systems

818-991-0360
* Digicart II Plus
* Instant Replay
* TCR4
* TCR8

AKAI Musical Instrument Corp.

817-831-9203; 800-433-5627
DD16 PB Plus
DD8 Plus
DR16 Pro

Doremi Labs Inc

818-562-1101
* VI Non-linear Recorder/player

ENCO Systems

248-476-5711; 800-362-6797
Digital Intern

Henry Engineering

626-355-3656
DigiStor II

Nagra USA

615-726-5191; 800-813-1663
* ARES-C
ARES-P
DII 24bit/96kHz mastering
Nagra-D II

Sonifex Ltd

+44 1933 650
Courier PCMCIA Audio Recorder
Courier VI.S
Net-Log
Sentinel + index audio logger

Superscope Technologies Inc/

Marantz
630-820-4800
PMD350
PMD650

TASCAM

323-726-0303
CD-D4000MKII

audio routing

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

ADC/ Nvision

612-938-8080; 800-726-4266
DA4011 & NV500
DA4030 & DA4040
DA4050
ENVOY7256
SD4150 & DA4161

Antex Electronics

310-532-3092; 800-338-4231
Model BX-12
Model LX24m

ATI-Audio Technologies, Inc.

215-443-0330; 800-959-0307
* DDA106/112/206-XLR and DDA112/124/212-BNC

Axon Digital Design BV

+31 13511 6666
AAD-542/ADA-524
AEB-221/ADB-122 Embedder/
De-embedders

Benchmark Media Systems

315-437-6300; 800-262-4675
* AD2404-96
Circle (321) on Free Info Card
* AD2408-96
Circle (322) on Free Info Card
* ADA2008 4 Channel A/D-D/A converter
Circle (323) on Free Info Card
* DA-101 & DA 102DM
Circle (354) on Free Info Card
* VCA-2
Circle (511) on Free Info Card

Broadcast Electronics Inc

217-224-9600
AudioPOINT

Chyron

631-845-2000; 888 4 CHYRON
* Freeway

Datatek Corp

908-654-8100; 800-882-9100
* D2600/2800 digital audio routers

Extron Electronics

714-491-1500; 800-633-9876
MSA 1616
Circle (720) on Free Info Card

Fortel DTV

404-885-9555; 800-530-5542
DAS-441 Audio tracking delay

Furman Sound

707-763-1010
AIS-10
SRM-80

Grass Valley Group

800-547-8949; 800-824-5127
* MAX 9000
Grass Valley 2000 & 8900
Grass Valley 7500 NB
Grass Valley 8900 Modular Series

Henry Engineering

626-355-3656
* USDA

Independent Audio/Sonifex

207-773-2424
972 24/192
RB-ADDA
RB-SCI

Keywest Technology

913-492-4666; 800-331-2019
Voo Doo Series
Circle (800) on Free Info Card

Color indicates advertisers

* DTV/HDTV ready products



News is made in an instant.
Producing the story should be just as fast.

Chances are, you've heard that digital technology can help produce news faster and easier. With an SGI Media Server™, the evolution to digital can happen just as fast. The new SGI video server distributes media as data for browsing and sharing content over standard data networks, allowing you to leverage your existing infrastructure for repurposing content. Plus, our multi-format, resolution-independent solution delivers simultaneous input, serving, and play-out of video, eliminating the need for independent devices. These advantages – as well as 24x7 service and support – help make your transition to digital quick and easy. To learn more about SGI Media Commerce™ solutions, visit our Web site or call 1-800-800-7441.

www.sgi.com/go/broadband



The new SGI Media Server • Up to 8 video channels • Video file transfers • Multi format video I/O support

Klotz Digital America

678-966-9900

*VADIS

Vadis 880

Vadis Core 220

Vadis DC II

Knox Video

301-840-5805

ProSwitch series

Lighthouse Digital Systems Inc

530-272-8240; 800-323-8289

* OZ

Circle (453) on Free Info Card

MicroVideo Ltd

+44 1223 834

* MUX200, DMX200, DMX201A,
DMX204A (2 & 4 channels)

Multidyne Video & Fiber Optic Systems

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

AAGC-200

Circle (558) on Free Info Card

Opamp Labs Inc

323-934-3566

A-24/2ML

A-48/B

PESA Switching Systems

631-845-5020; 800-328-1008

* Tiger 144x144

Circle (493) on Free Info Card

Pixel Instruments Corp

408-871-1975

* AD-3000

QSC Audio Products, Inc

714-754-6175

Rave-s

RDL (Radio Design Labs)

805-684-5415; 800-281-2683

Digital audio interfaces

RU-AECI

RU-AED4

Sierra Automated Systems Eng Corp

818-840-6749

32000

32KD

64000 Audio routing system

Mixing Martrix Switcher

SAS 16000D & SAS 1600

Sierra Video Systems

530-478-1000

* Video & audio DAs

Sigma Electronics

717-569-2681

* DMA-2180

Sonifex Ltd

+44 1933 650

Redbox line

Sony Electronics

201-930-1000; 800-686-SONY

Complete line of audio routing and
distribution products

Circle (622) on Free Info Card

Studer Professional Audio AG

+41 1 870 75

Route 5000 Digital Routing System



8200 Series

Ward-Beck

416-335-5999; 800-771-2556

8200 Series

Circle (800) on Free Info Card

Yamaha Corp of America

714-522-9011

DME32 mixing engine

automation systems

Includes: Asset management systems; Master control switchers; PSIP and DTV data encoders; TV business automation (traffic systems); TV facility automation; TV news automation systems

Agilevision

609-514-4030

AGV-1000

AGV-3000 - All AGV 1000 features
plus:

Avid Technology

978-640-6789; 800-949-AVID

* NewsCutter Version 1.5

Circle (447) on Free Info Card

Avid Unity

Circle (571) on Free Info Card

Media Manager

Circle (713) on Free Info Card

Transfer Manager

Circle (779) on Free Info Card

Chyron

631-845-2000; 888 4 CHYRON

* Compass

* MAPP media management system

* Meridian

* Sextant

* TX 310

* TX-320

Aurora



D-MAS

CJDS DAL

303-237-4000; 888-325-5040

* D-MAS

Circle (363) on Free Info Card

* LCD Operator Control panels

Circle (435) on Free Info Card

A-8000

Circle (556) on Free Info Card

A-8800

Circle (557) on Free Info Card

Network Control & Monitoring

Circle (726) on Free Info Card

Windows NT Front End Workstation

Circle (806) on Free Info Card

Crispin Corporation

919-845-7744

* RapidPlay X - News & Commercial
Playback System

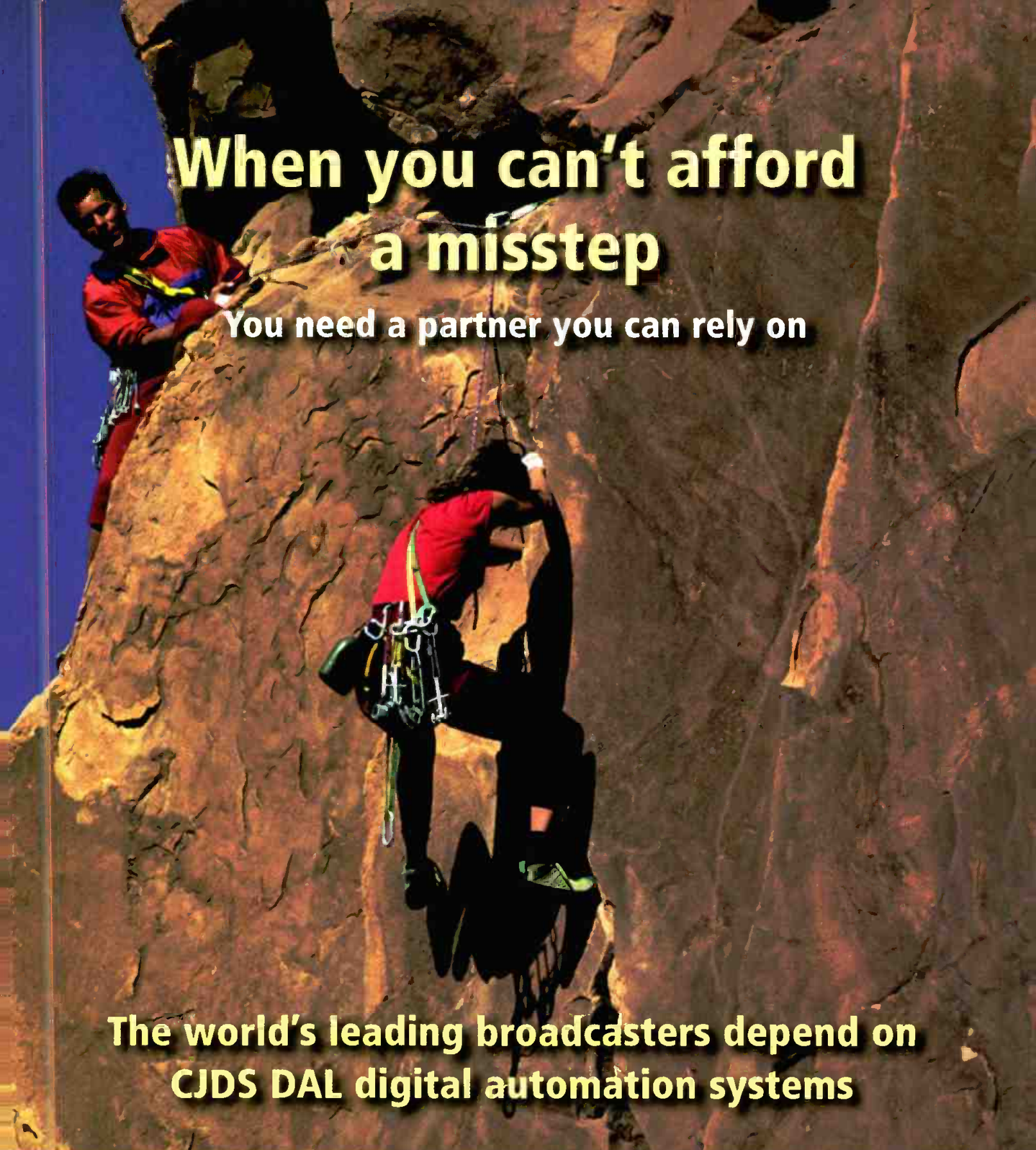
AssetBase 2000 Database

DNF Controls

818-252-0198

3040 Multi-Playlist

Circle (542) on Free Info Card

A photograph of two rock climbers on a steep, reddish-brown cliff face. One climber is higher up, wearing a red jacket and blue pants, looking down. The other climber is lower down, wearing a red shirt and black pants, reaching up. Both are equipped with climbing gear and ropes.

When you can't afford a misstep

You need a partner you can rely on

**The world's leading broadcasters depend on
CJDS DAL digital automation systems**

specification-design-manufacture-installation-integration-operation

Circle (110) on Free Info Card

NORTH AMERICA:

1999 Broadway, Suite 4000, Denver, Colorado 80202 USA

Tel: 303 237 4000 www.cjds.com

EUROPE/ASIA:

14 Cedarwood, Chineham Business Park,

Basingstoke, Hampshire RG24 8WD UK

Tel: 011 44 1256 379000 www.cjdsdal.com



Encoda Systems

303-237-4000

- * DAL Master Control & Centralization Automation System
- * DAL Large scale

FloriCal Systems Inc

352-372-8326

- * AirBoss NT
- * Media Timer - Program Data Capture
- * Show Timer - Satellite Program Acquisition

Grass Valley Group

800-547-8949; 800-824-5127

- * M-2100
- ContentShare

Harris Corporation, Broadcast Communications Div.

513-459-3400; 800-622-0022

- * MASTERplus
- Circle (441) on Free Info Card
- * PSIPplus/PSIP.com
- Circle (460) on Free Info Card

Inscriber Technology

519-570-9111; 800-363-3400

Inscriber RTX

Leitch Incorporated

757-548-2300; 800-231-9673

- * HDTV Master Control Switcher
- Circle (412) on Free Info Card
- Opus
- Circle (732) on Free Info Card

Odetics

714-774-2200

- * AIRO
- * Bowser Visual Asset Manager
- * Roswell Content Management System

Omnibus

530-470-1700

EDITION

Panasonic Broadcast

323-436-3500; 800-528-8601

- * Smart Cart automation system w/ DVCPRO VCRs
- DNA DVCPRO news automation system

ParkerVision

904-737-1367; 800-532-8034

- * PVTV STUDIO
- PVTV Studio Automated Production System

Philips Digital Video Systems

818-729-7700; 800-962-4287

- * MC series
- * Saturn

SGI (Silicon Graphics)

650-960-1980; 800-800-7441

- * Asset Management
- Circle (330) on Free Info Card

Sundance Digital Inc

972-444-8442

- * FastBreak
- * FastBreak Automation
- * NewsBreak

Tektronix Inc

503-627-7111; 800-835-9433

eQuip Finance

Videomedia Inc

408-227-9977

- * VIP-Suite
- Air-Pak

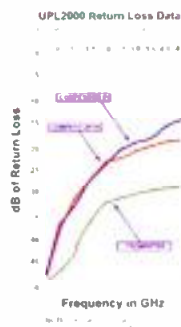
Best Value \$1.40@100 Pcs. \$1.22@1000 Pcs. HDTV I.Q. Test



Find the true 75 ohm digital connector

Don't be fooled into believing that yesterday's BNC's are up to the demands of digital broadcasting. You need the true 75 ohm connection that you get with the new sleek, black UPL2000 from Trompeter. It is the only BNC designed for high bit-rate digital video signal transmission and offers significant performance advantages over standard BNC's (60 E-485 Gbps >8db return loss improvement). Built rugged to deliver reliable performance over time, the UPL2000 is priced right and available today.

Don't compromise your signal with yesterday's connectors. Do digital right with the sleek, black UPL2000.



Straight, 45, and 90° models. Various diam. cable sizes to support broadcast, post production and C/MV. Interlocks.



GET QUOTES FAST... VISIT OUR WEBSITE TODAY!
www.trompeter.com or call: 800 982-2629

Circle (112) or Free Info Card

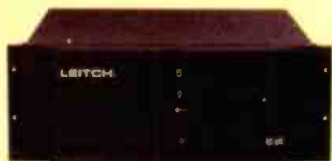
Color indicates advertisers

* DTV/HDTV ready products

News doesn't just break — it explodes

Hit the air instantly while your rivals crash and burn. Thanks to Leitch, now you can record multiple feeds, browse and edit as you record, and play back instantly with **BrowseCutter™**, **Instant Online™** and **NEWSFlash™** — our digital newsroom.

The instant news makes impact, you have to be ready to launch your crew into the action. The first one on air is reporting the news; everyone else is just reporting history. As every second passes, you're in danger of missing your target. Leitch's news server ensures that you never crash and burn by supplying direct, unrestricted access to our V-SAN — the Video Storage Area Network. Your crew can simultaneously record multiple feeds, edit complete packages and instantly play to air. In no time you'll be shaping stories that once remained up in the air. Your crew will be on the air before the competition loads its tapes. It's all possible with **NEWSFlash™**, the only 'in-the-server' Non-Linear Editor designed specifically for quick, hard news. And you can simultaneously attack with a fully armed squadron using **BrowseCutter™** and **Instant Online™**, a complete set of ammunition allowing for browse, edit and instant story to rundown conformance of digital video and audio content right from the journalist's computer desktop. The sky's the limit with Leitch's integrated news system. Call 800-231-9673 for more information or visit our website at www.leitch.com.



Using **NEWSFlash™** and **Instant Online™** newsroom generals can coordinate with outside forces using the following compatible newsroom interfaces: ANN, AvStar, Comprompter, DCM, ENPS, Generation Technologies and Newstar

think video @



www.leitch.com

Circle (113) on Free Info Card

International/Canada +1 (416) 445 9640 Europe +44 (0) 1483 591000 U.S.A. East +1 (800) 231 9673.
U.S.A. West +1 (888) 843 7004 Latin America +1 (305) 591 0611 Brazil +55 (11) 3151 5093
Hong Kong +(852) 2776 0628 Japan +81 (3) 5423 3631 Australia +61 (2) 9939 3355

cable tv equipment

Includes: Broadcast cable equipment; CATV system components

Harmonic (formerly Divicom)

408-490-6560; 877-348-4266

* Divicom SimulCrypt solutions

Scientific-Atlanta

770-903-5000

* Explorer 2000

Data broadcasting systems

Standard Communications Corp

310-532-5300

TVM550II

Tadiran Scopus - USA

858-618-1600

CAS 5000, Commercial SCPC/MCPC CA

Circle (580) on Free Info Card

VideoTek

610-327-2292; 800-800-5719

DDM-500 8VSB

Circle (627) on Free Info Card

DDM-510

Circle (628) on Free Info Card

Zandar Technologies

408-782-9725

VMX-64

Circle (799) on Free Info Card

cameras

Includes: Camcorders; Camera accessories; Cameras

Aspen Electronics

714-379-2515

* PSM-160 Camera Power Adapter

Belden Electronics Division

765-983-5200; 800-BELDEN I

Brilliance SMPTE 31 I

Bogen Photo Corp

201-818-9500

Manfrotto Carbon One series

Circle (707) on Free Info Card

Elmo Mfg Corp

516-775-3200; 800-947-3566

lipstick cameras

Hitachi Denshi America Ltd

516-921-7200

* SK-27

* SK-3000

* SK-3000P

* Z-3000W

Ikegami Electronics (USA) Inc

201-368-9171; 800-368-9171

* DNS-200W, DNS-21W/10W

* HC-400/400W

* HDK-790/HDL-79

* HK-387W/387PW

* HK-388/388W studio/HK-388/388PW portable NTSC

* HL -V73/73W, HL-V77/77W, HL-V75W, HL-V79

JVC Professional Products Co

973-315-5000; 800-JVC-5825

* DY-700U

Mohawk/CDT

978-537-9961; 800-422-9961

* Hybrid Fiber Optic Camera Cable

* Multicore and Triax Camera Cables

Nemal Electronics Int'l

305-899-0900; 800-522-2253

* Broadcast Camera Cable and Connector Strain Relief

Panasonic Broadcast

323-436-3500; 800-528-8601

* AJ-D900W 2/3" 3-CCD DVCPRO50 camcorder

* AJ-PD900W 2/3" DVCPRO50 progressive camcorder

* AK-HC830 portable 1080i camera

* AK-HC880 studio 1080i camera
AJ-D810 3-IT 2/3" CCD DVCPRO camcorder

ParkerVision

904-737-1367; 800-532-8034

Robotic CameraMan



LDK Series

Philips Digital Video Systems

818-729-7700; 800-962-4287

* LDK 9000

* LDK series

Radamec

732-246-0906; 877-RADAMEC

* Robotic Track Cam

Circle (465) on Free Info Card

Sony Electronics

201-930-1000; 800-686-SONY

* BetacamSX Line of Camcorder and Camera Systems

Circle (334) on Free Info Card

* Digital Betacam Line of Camcorder and Camera Systems

Circle (359) on Free Info Card

* HDCAM Line of High Definition Camcorder and Camera

Circle (406) on Free Info Card

* HDCAM, Digital Betacam, Betacam SX and DVCAM

camera robotics

Includes: Camera remote controls; Robotic camera controls; Virtual sets

Complex Corporation

316-342-7743

CP-301B

CP-501

VTU-320A

For-A Corporation of America

352-371-1505

* digiWarp-EX

Global Microwave Systems

760-631-8021

StarCam

Orad Hi-Tec Systems

212-931-6723

* CyberActor

* CyberSet HD

ParkerVision

904-737-1367; 800-532-8034

PVTV

SHOT Director

Play Incorporated

916-851-0800; 800-306-PLAY

HoloSet

Color indicates advertisers

* DTV/HDTV ready products

DV 8. DV 12.

Perfect balance despite the ups and downs ...



...of electronic reporting.

Compact digital cameras have become hugely popular. They are fast, light and highly versatile. But do they ensure a smooth take? How do you prevent vibration? What about fast panning? Special applications? Or shooting in dreadful weather conditions? You'll find that Sachtler provides the support you never had before for a digital camera. And including all the things you

expect from Sachtler: fluid damping in five steps, touch and go for speedy changes of location, and highly sensitive counterbalance – also in five steps.

You need to use a heavy lens? Or a lighting system? DV 8 and DV 12 have a carrying capacity of up to 10 kg/22 lb and 12 kg/26 lb. Even fast panning won't spoil your report.

DV 8. DV 12. Because you have so much to report.

sachtler
corporation of america

55, North Main Street, Freeport NY 11520

Phone: (516) 867-4900

Fax: (516) 623-6844

www.sachtler.de

3315, West Victory Blvd., Burbank, CA. 91505

Phone: (818) 845-4446



Every scene is seen better
with a Sachtler.



Virtual Scenario

Radamec

732-246-0906; 877-RADAMEC

* Robotic Track Cam

Circle (464) on Free Info Card

* RP2A

Circle (466) on Free Info Card

* Virtual Scenario

Circle (520) on Free Info Card

ARC 2000

Circle (564) on Free Info Card

Telemetrics Inc

201-848-9818; 800-424-9626

* Advanced camera control & robotics systems

ULTIMATTE Corp

818-993-8007

ULTIMATTE

Vinten Inc

914-268-0100; 888-2 VINTEN

* ACP-8000P

* ImageTracker

HS-102PE/HS-105PE/HS-2010ME

camera support

Includes Camera support products (tripods), Pan/tilt heads

Bogen Photo Corp

201-818-9500

3011V/3211V

Circle (541) on Free Info Card

3046 and 3051 Series

Circle (543) on Free Info Card

G1380 series

Circle (676) on Free Info Card

Gitzo Classic Baby tripod -G1340

Circle (679) on Free Info Card

Manfrotto tripods & pan/tilt heads

Circle (709) on Free Info Card

Cartoni USA

805-520-6086; 888-227-8664

Alfa series

Beta

C40s

JNS Company

407-877-2335; 800-541-5706

EzFx Jib Arm

Miller Camera Support, LLC

973-857-8300

* Arrow 50 ENG/EPF

* DS-10

* DS-25

O'Connor

714-979-3993

* 1030B/1030S

* 1030Z

* 2060

ParkerVision

904-737-1367; 800-532-8034

Digital CameraMan

Telemetrics Inc

201-848-9818; 800-424-9626

* PT-CP, PT-HP, PT-LP

EP-PT Televator

Vinten Inc

914-268-0100; 888-2 VINTEN

* Quatro

* ST-200 Servo track system

* Vision 3, Vision 6

Circle (407) on Free Info Card

Thomson Broadcast

201-569-1650; 800-882-1824

* I657D

* I707

* Sportcam

CGs

Includes: Character generators; Teleprompters and prompting software

Aston Electronic Designs

+44 1252 836

* Ethos CG

* Motif Advantage and MotifXL CGs

Chyron

631-845-2000; 888 4 CHYRON

* iNFiNiT! family

Horita Co Inc

949-489-0240

KCT-50

SCT-50 Serial Control Titler, Time/Date Stamp

Inscriber Technology

519-570-9111; 800-363-3400

* Inscribe CG Supreme

FeaturePak

Inscribe CG Xtreme

Knox Video

301-840-5805

Character Generators

Leitch Incorporated

757-548-2300; 800-231-9673

* HD LogoMotion

Circle (401) on Free Info Card

Mirror Image Teleprompter

920-232-0220

14" VGA Prompter Panel

Multidyne Video & Fiber Optic Systems

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

CG-200

Circle (583) on Free Info Card

ParkerVision

904-737-1367; 800-532-8034

Script Viewer

Pinnacle Systems

650-526-1600

* Deko 100, Deko 200, Deko 500

* Deko 2000

* FX Deko HD

* FXDeko w/Live Special Effects

Pixel Power Ltd

+44 1223 721

* Clarity HD

* Collette

Play Incorporated

916-851-0800; 800-306-PLAY

Trinity 2.2

Video Data Systems

631-231-4400; 800-858-5850

LogoStar

videoGIZMO

VidStar Photo Imaging System

Videonics

408-866-8300; 800-338-3348

PowerScript 4000 Pro

the future of broadcasting

Newsroom

Syndication

Promo Dept

Local
Programming

we're ready, are you?

We have the nonlinear editing system, the media transfer tool, the data management tool, the streaming media publisher - and the intelligent backbone to make it all work seamlessly. Start with a single NewsCutter® editing system or begin building your full infrastructure today.

To learn more about our scaleable broadcast environment, call 800-949-AVID (2843) for a consultation.

www.avid.com

Circle (114) on Free Info Card

Avid

video | broadcast | film | audio | effects | networking



IF THE FUTURE WERE A COLOR, IT WOULD BE BLUE.

Copyright © 2000 Royal Philips Electronics. All rights reserved. Microsoft is a trademark owned by its proprietor and used by Philips Semiconductor under license.

www.americanradiohistory.com

TEAM



BLUE

Meet the bold new face of Philips Semiconductors. We call it Team Blue. Why? Just as tones, tints and shades vary the richness of blue, our people, systems and technologies blend perfectly to deliver like no one else. From consumer electronics and wireless communication to computing, industrial, automotive systems and networking, Philips leads the way. Providing processing power to make the technology of the future a reality today. For instance, in interactive TV, we created the first software upgradable system—the Nexperia Home Entertainment Engine. And the leader in enabling Bluetooth™ solutions for smart appliances? Us again. With an unparalleled IP portfolio, we offer platform-based interconnectivity, media-processing and networking solutions vital for convergence, ensuring your systems work together seamlessly. And proving why now, more than ever, great ideas come out of the blue.

www.semiconductors.philips.com
www.semiconductors.philips.com/career

TEAM BLUE IS HERE.



PHILIPS

Let's make things better.

computers

Includes: Computer accessories; Computer networking products; Computer systems; Data multiplexers; Data storage systems; Data transmission systems; Video cards

Analog Way

212-269-1902

Range of Video & Computer Interfaces

Astro Systems

818-244-1806

* CX-565

Circle (352) on Free Info Card

Audemat Inc

978-392-2110

Datacaster

Avid Technology

978-640-6789; 800-949-AVID

iS-PLUS Series

Circle (693) on Free Info Card

MediaDock

Circle (715) on Free Info Card

Boland Communications

949-367-9911; 800-918-9090

6.4" to 21" LCD Color Monitors

Ciprico Inc

763-551-4000; 800-727-4669

* 6500, 6900 UltraSCSI RAID disk arrays

* 7000

Digigram

703-875-9100

NCX family

Discreet Logic

514-272-0525; 800-869-3504

Discreet Fibre Storage

Circle (633) on Free Info Card

DNF Controls

818-252-0198

Ethernet machine control

Circle (668) on Free Info Card

Ensemble Designs

530-478-1830

MultiBuffer DS-I

Extron Electronics

714-491-1500; 800-633-9876

P/2 DAI

Circle (733) on Free Info Card

Harmonic (formerly Divicom)

408-490-6560; 877-348-4266

* DiviCast

* THESYS

Hoodman Corp

310-379-6391; 800-818-3946

e-2000 e-clipse laptop hood

Hotronic Inc

408-378-3883

PC-TBC Plug-in TBC/Frame Sync for Computers

IBUS / Phoenix

858-974-8400; 888-307-7892

GI6

Circle (678) on Free Info Card

TR6

Circle (778) on Free Info Card

Multidyne Video & Fiber Optic Systems

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

* DTV-200

Circle (372) on Free Info Card

FMX-120

Circle (674) on Free Info Card

Nucomm Microwave Inc

908-852-3700; 800-9-NUCOMM

* 70DMT/DRM7

* DIGI-MUX

* GA-Link

Philips Digital Video Systems

818-729-7700; 800-962-4287

TokenMux multiplexer

Pinnacle Systems

650-526-1600

ReelTime

Rorke Data Inc

612-829-0300; 800-328-8147

StudioNet-FC

SeaChange International

978-897-0100

MediaExpress



Onyx2

SGI (Silicon Graphics)

650-960-1980; 800-800-7441

O2 desktop workstation

Circle (729) on Free Info Card

Octane

Circle (730) on Free Info Card

Onyx2

Circle (731) on Free Info Card

Studio Central I.I

Circle (771) on Free Info Card

Sony Electronics

201-930-1000; 800-686-SONY

PetaSite DTF System

Circle (737) on Free Info Card

Storage Concepts Inc

949-852-8511; 800-525-9217

* FiberRAID Express

Tadiran Scopus - USA

858-618-1600

* CODICO IGW-600

Circle (346) on Free Info Card

* IP over DVB system

Circle (422) on Free Info Card

Telestream

530-470-1300; 877-CLPMAIL

ClipMail Pro

ClipMail Pro Clip Express

Telex Communications

952-884-4051; 800-392-3497

CDP 2001

ULTIMATTE Corp

818-993-8007

Ultimatte

new game. new media infrastructure.

The VIDEO AREA NETWORK™ from Omneon gives you the advantage.

The networking and storage infrastructure for New Media, from streaming media, to digital television, HDTV — and beyond

From the experts who know video and networking. Introducing a complete networking and storage system for video, audio and rich media. Proven technology enabling a world of new capabilities for content on demand, collaborative production, media management, and distribution. New revenue building opportunities — spanning broadband, broadcast, and satellite.



Omneon's VIDEO AREA NETWORK delivers a format-independent networking and storage infrastructure for production, real-time compilation, management and distribution of content across every form of media. With modularity and scalability to grow as your business grows.

All in one affordable system.
All available today.

www.Omneon.com

Streaming Media West Booth 1329

Circle (116) on Free Info Card


OMNEON
VIDEONETWORKS

Viewgraphics

650-903-4900

DTV Xstream System with DTV
DTV Xstream System with DTV
MediaPump SX MPEG-2 DVB
MediaPump XL MPEG-2 DVB Multi-
plexing
VideoPump HD
VideoPump SD

Zandar Technologies

408-782-9725

MVG16, MVG6, MVG2

Circle (721) on Free Info Card

DAWs

Includes: Digital audio workstations

360 Systems

818-991-0360

Short/cut 2000

AKAI Musical Instrument Corp.

817-831-9203; 800-433-5627

DDI500

Avid Technology

978-640-6789; 800-949-AVID

AudioVision 4.0

Circle (567) on Free Info Card

Cartworks/dbm Systems

601-856-9080; 800-795-7234

* CartWorks

Cartworks enhancements

Digigram

703-875-9100

* XTrack

Fairlight USA

310-287-1400; 800-4-FAIRLIGHT

* DaD plus Digital Audio Dubber

* Fame Editing/Mixing System

* MFX3 plus Digital Audio Workstation

Orban

510-351-3500

* Audicy

Audicy 3.0

SADiE Inc

615-327-1140

* Artemis

* SADiE 24.96

Sonic Solutions

415-893-8000; 888-Sonic-4U

Sonic Studio HD

Yamaha Corp of America

714-522-9011

AW4416

DSP Factory/DS 2416

desktop video

Includes: Desktop video systems

Accom

650-328-3818

* Sphere

Canopus

408-954-4500; 888-868-2533

DVRaptor

DVRex R3

DVRex RT

DPS Digital Processing System

859-371-5533; 800-775-3314

DPSReality SDDR

Circle (643) on Free Info Card

EMCEE & ABS

NOW OFFERING A FULL RANGE OF BROADCAST TRANSMITTERS.



1kW UHF Transmitter



100W UHF Transmitter



UHF
High Power
Broadcast Transmitter

For over 40 years EMCEE Broadcast Products, Inc. has been manufacturing a full line of low to medium power analog TV Transmitters and Translators. After years of excellence and technical leadership in those markets, EMCEE is proud to announce its move into high power, with the acquisition of Advanced Broadcast Systems.

Our product line has always provided broadcasters with superior performance, high reliability and now, high power capabilities. With this new addition to our company we now have a complete product line to

offer, making EMCEE the best choice for all your broadcasting needs.

- VHF Analog Power Ranges - 1W to 1kW - Digital to 250W
- UHF Analog Power Ranges - 2W to 240kW - Digital to 120kW
- Transmitter Technologies Available:

- Laterally Diffused Metal Oxide Semiconductor (LDMOS). These semiconductors provide high performance and reliability in a compact, affordable package.
- Tetrode
- IOT



P.O. Box 68 • Susquehanna St. Ext.
White Haven, PA 18661-0068
570-443-9575 • Fax: 570-443-9257
<http://www.emceebird.com>



5825 Bullittsville Road
Burlington, KY 41005
859-689-0075
Fax: 859-689-0073
www.ABS-TV.com

Circle (117) on Free Info Card

Color indicates advertisers

* DTV/HDTV ready products

Be careful what
you ask for...

YOU JUST ~~might get~~ GOT IT!

Two new stereo shotguns from Audio-Technica

Developed at the request of broadcasters
for reasonably priced, easy to handle,
compact M-S stereo shotguns.

Self-contained, simple operation
and light weight provide unequalled
mounting versatility.

Two internally-matrixed left/right
stereo modes and a non-matrixed
M-S mode are switch-selectable.

Proven performance in demanding
sports and field applications.

The AT815ST and AT835ST provide
broadcasters, videographers and
sound recordists with two new tools
for stereo audio acquisition.



AT815ST AT835ST

To get more information, just ask! Call, write or fax today.
Or visit our Web site at www.audio-technica.com.



audio-technica.

Leitch Incorporated

757-548-2300; 800-231-9673

* BrowseCutter

Circle (340) on Free Info Card

Matrox

514-685-2630 x ; 800-361-4903

DigiSuite LE

RT2000

Play Incorporated

916-851-0800; 800-306-PLAY

Trinity 2.2

duplication

ESE

310-322-2136

ES-209A

Circle (665) on Free Info Card

Yamaha Corp of America

714-522-9011

CDR1000

film equipment

Includes: Telecines

BOXX Technologies, Inc.

512-835-0400; 877-877-BOXX

* CineBOXX

Philips Digital Video Systems

818-729-7700; 800-962-4287

* Spirit DataCine

Sony Electronics

201-930-1000; 800-686-SONY

* FVS-1000 Vialta

Circle (391) on Free Info Card

graphics

Includes: Animation software; Graphics software; Graphics systems

Avid Technology

978-640-6789; 800-949-AVID

Avid Marquee

Circle (569) on Free Info Card

Avid MATADOR

Circle (570) on Free Info Card

BOXX Technologies, Inc.

512-835-0400; 877-877-BOXX

3DBOXX

Chyron

631-845-2000; 888 4 CHYRON

* DUET

* Duet/Lyric

* Liberty HD

* Lyric

Duet MPx option

DPS Digital Processing System

859-371-5533; 800-775-3314

DPSReality SDDR

Circle (644) on Free Info Card

Inscriber Technology

519-570-9111; 800-363-3400

A2i

Active Texture Option

Automation CG

Orad Hi-Tec Systems

212-931-6723

* CyberSport

ParkerVision

904-737-1367; 800-532-8034

PVTV



Clarity HD

Pixel Power Ltd

+44 1223 721

* Clarity HD-GX

* Graphite

Play Incorporated

916-851-0800; 800-306-PLAY

Trinity 2.2

Quantel

203-656-3100; 800-218-0051

Paintbox FX

Softimage

818-365-1359; 800-576-3846

Graphics Software

intercoms

Includes: Intercom/IFB Products

Beyerdynamic

631-293-3200; 800-293-4463

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

Clear-Com Systems

510-496-6666

* ICS-2003

* ICS-2110

* Matrix Plus

Comrex Corp

978-263-1800; 800-237-1776

Cue System for Wireless IFB

COMTEK Inc

801-466-3463; 800-496-3463

* BST-25/PR-225

* M-25 micro all in ear RF IFB

JK Audio

815-786-2929; 800-552-8346

RemoteAmp - Headphone/Earpiece Amplifier

RemoteMix 3x4 - Multi-line Hybrid Mixer

Modulation Sciences

732-302-3090; 800-826-2603

PCG-II

PRO-II

Sierra Automated Systems Eng Corp

818-840-6749

32000 Intercom

Systems Wireless Ltd

703-471-7887; 800-542-3332

Series 800 UHF intercom system

T1/R1 UHF IFB

Telex Communications

952-884-4051; 800-392-3497

ADAM

BTR-500

RTS

lenses

Includes: Lens converters/accessories; Lens systems

Angenieux

973-812-3858

* 11.5x5.3 HD

* Cine digital kit

* ENG Lenses

* HD Lens

Color indicates advertisers

* DTV/HDTV ready products

No matter
how high,
how far,
how fast,
how clear,
how icy,
how windy,
how wet
or
how many.

PiRod's solutions are **SOLID.**



PiRod can manage your unique tower needs with custom-designed solid rod, free-standing or guyed towers built to your specs and erected where you need them now. Our towers are solid—engineered to handle your most critical problems—and customers tell us that our turnkey design and erection services are pretty solid too. Like our record of providing tower solutions since 1952. So when you need a solid partner for your communication needs, call PiRod. When it comes to towers, there's just nothing hollow here.

Solid Rod, Solid Service, Solid Value

For a free guide to tower selection and a fast, courteous response to your request for a quotation, contact:



PIROD INC.

Solid Rod, Solid Service, Solid Value

PiRod, Inc.
P.O. Box 128
Plymouth, Indiana 46563-0128
(219) 936-4221
Fax (219) 936-6796
www.pirod.com
Circle (119) on Free Info Card

Neumann/USA

860-434-5220

- * KM 180 series
- * KMS 105
- * M 147

Sennheiser Electronics

860-434-9190

- * EK3041-U
- * EM3532
- * Evolution microphone series
- * Digital 1000 series

Shure Inc

847-866-2200; 800-25-SHURE

- * SM631B
- * SM7A
- * SM89

Systems Wireless Ltd

703-471-7887; 800-542-3332
UCR200 Series UHF

Telex Communications, Inc. & Electro Voice

952-884-4051; 800-392-3497

MS3000 Diversity Wireless
R100 Diversity Wireless
R200 UHF Diversity Wireless
RE 20

Vega

626-442-0782; 800-877-1771

- * Q+/Q600
- * R-672

microwave & fiber

Includes: Audio codecs (telco); ENG microwave links; Fiber optic transmitter/receiver systems; STL/TSL links; Telco interface equipment; Telephone hybrids

ADC/ Nvision

612-938-8080; 800-726-4266

- * DV 6000 Fiber Optic Video System
- DV6000 Series
- SD4170 & HD4270

AETA Audio Corp

973-659-0555

HIFIScoop 3
Scoop Reporter II

Andrew Corporation

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

STL antennas, M/W and elliptical waveguide

Circle (769) on Free Info Card

Armstrong Transmitter

315-673-1269

Axon Digital Design BV

+31 13511 6666

- * FOT-100/FOR-100 & FOT-30/FOR-30
- Fiber Optic Links

BARCONET

770-590-3600; 800-992-5016

- * LUXOR

Circle (437) on Free Info Card



STARlink

Broadcast Microwave Services

858-560-8601; 800-669-9667

- * 7 & 13GHz STLs

Circle (313) on Free Info Card

- * STARlink

Circle (348) on Free Info Card

- * ENG helicopter package

Circle (383) on Free Info Card

- * ENG vehicle packages

Circle (384) on Free Info Card

Clear-Com Systems

510-496-6666

- * TEL-14

Comrex Corp

978-263-1800; 800-237-1776

Envoy
HotLine POTS codec
Matrix
Nexus ISDN Codec
Vector POTS Codec

ENCO Systems

248-476-5711; 800-362-6797

Digital Intern

Gentner Communications Corp

801-975-7200; 800-945-7730

- * DH-20 hybrid
- * DH-22 hybrid
- * DH30

Global Microwave Systems

760-631-8021

NT series
STM/SRM

Henry Engineering

626-355-3656

- * Audio OnLine

Itelco USA Inc

303-464-8000

- * 1.7GHz-13.2GHz 1W to 20W
- microwave systems

Circle (301) on Free Info Card

JK Audio

815-786-2929; 800-552-8346

RemoteMix 3 Phone Line/Handset Interface

Microwave Radio Communications

978-671-5700; 800-490-5700

- * DAR Radio
- * Twinstream
- MRC CodeRunner 2.7

Multidyne Video

& Fiber Optic Systems

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

- * DTV-1500 series

Circle (371) on Free Info Card

- * DTV-220

Circle (374) on Free Info Card

DVM-2000

Circle (655) on Free Info Card

NEC America Inc Broadcast Equipment Department

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

- * Digital microwave link

NSI - (N Systems Inc)

410-964-8400

- * Silhouette transmit antennas
- * Superquad central receive systems
- Super pad, Silhouette

Nucomm Microwave Inc

908-852-3700; 800-9-NUCOMM

- * HDL HDTV
- * Newscaster MMPT6 Series
- * PT/RX6
- Dual Stream Plus

Opticomm Corp

858-450-0143; 800-8-OPTICOMM

- * FMX-5000

Circle (390) on Free Info Card

RF Technology Inc

203-866-4283; 800-762-4369

- * ACL series
- * GPS Auto-Pod
- * Pathfinder Steerable Central Receive system

Color indicates advertisers

- * DTV/HDTV ready products

.....Unfortunately, the signal went down in 1 minute, 23.

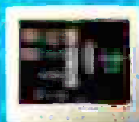
Circle (120) on Free Info Card

If something can go wrong, it will. And at the worst possible time. You either plan for it - or hope for the best.

RollCall, the network management system from Snell & Wilcox helps you avoid such disasters. Not only does it provide the most versatile and advanced control capability for broadcast TV stations, it also offers a number of unique functions designed to give you maximum operational confidence.

RollCall dynamically monitors your entire network, irrespective of manufacturer or signal format. If there's a problem or malfunction, it flags it up for instant action. It can also re-route the signal automatically to keep you on air.

RollCall™ Network Management System



POWERFUL AND SCALEABLE ARCHITECTURE INTEGRATES SIGNAL PROCESSING HARDWARE, ROUTERS AND MEDIA SERVERS.



SYSTEM ENABLES DIFFERENT USER CATEGORIES AND ACCESS LEVELS TO BE DEFINED AND PASSWORD PROTECTED.



ON AIR AND IN CONTROL

 **SNELL & WILCOX** 

Tel: 408 260 1000

www.snellwilcox.com

www.americanradiohistory.com

A comprehensive logging facility records every event on the network, however minor, for subsequent analysis. So potential faults can often be diagnosed before they become catastrophic.

Using RollCall, you can even create your own multi-level, schematic view, with live information showing everything that's happening on your network.

With virtually no constraints on physical layer or software platform, RollCall provides all the tools you need to monitor and control your network, no matter how large or complex, from wherever you are in the world.



Viper

Telecast Fiber Systems

508-754-4858

* Adder

Circle (324) on Free Info Card

* Cobra

Circle (344) on Free Info Card

* Viper

Circle (518) on Free Info Card

* Viper II

Circle (519) on Free Info Card

Thomson Broadcast

201-569-1650; 800-882-1824

* ACM 4200

Tiernan Communications

858-587-0252; 800-323-0252

* TATM8

TUI10

multimedia/internet

Includes: DVD systems; Interactive systems; Internet production systems; Media streaming equipment/services

Broadcast Electronics Inc

217-224-9600

eSTREAM

WebCaster

WebVault

Chyron

631-845-2000; 888 4 CHYRON

Pro-bel Clarinet

DPS Digital Processing System

859-371-5533; 800-775-3314

DPSReality SDDR

Circle (645) on Free Info Card

DPSVelocity NLE

Circle (647) on Free Info Card

ENCO Systems

248-476-5711; 800-362-6797

ENCOMPASS!

Heuris

314-534-1514; 800-923-9232

MPEG Power Professional DVD MPEG encoder

Klotz Digital America

678-966-9900

Media streaming equipment

Paradigm Producer

Leitch Incorporated

757-548-2300; 800-231-9673

News-In-A-Box

Circle (728) on Free Info Card

Odetics

714-774-2200

* eDETICS

Orad Hi-Tec Systems

212-931-6723

Cyberset Webcasting & interactive video streaming

The Broadcast Fiber Optic System That Does Just About Everything



VIPER II™

The most widely used fiber optic system for television production and distribution just got better. With the most advanced electronics, electro-optics and packaging, the Viper II meets all challenges in your facility's video, audio and auxiliary communications. Name your fiber application—pre-fibered facilities, STLs, remote broadcasts, mobile field production, video backhaul, metropolitan video links—the Viper II handles the job.

- Multichannel video & audio
- HDTV serial digital video; 19.4 Mbps to 1.5 Gbps
- 601 serial digital video
- Wideband NTSC/PAL video
- 24-bit digitized audio or AES/EBU
- Intercom, 2-wire or 4-wire
- Data, including RS232, RS422, CCU
- Universal 16-slot card cage
- Rack mount or "throw down" modules

It's not just a broadcast system, it's a multifaceted tool that's flexible, affordable, and easy to use. It's the reason why more facilities that choose fiber, choose Telecast.



Telecast
Fiber Systems, Inc.

The world leader in fiber optics for broadcast production
(508) 754-4858 • www.telecast-fiber.com

Circle (121) on Free Info Card



broadcast

onscreen | onair | online

Powerful, production proven, forward thinking.

change partners.

Lead your local market today and tomorrow with Discreet's advanced broadcast solutions. Discreet™ delivers powerful effects, 3D, real-time graphics, virtual studio, and workgroup editing tools to help build your station's brand and gain a wider audience. And with improved workflow and productivity, artists and editors can create compelling content once, and use it in virtually any medium, from film to HDTV to the web. Make your move to Discreet. It could be the start of a beautiful relationship.

Visit www.discreet.com or call 1.800.869.3504

discreet™

Discreet is a trademark of Autodesk, Inc. in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. © Copyright 2000 Autodesk, Inc. All rights reserved.

Circle (115) on Free Info Card
www.americanradiohistory.com

Orban

510-351-3500

Media streaming equipment

Pixelmetrix Corporation

+65 5474935; 877-717-4935

Media streaming equipment

Radyne Comstream Corporation

602-437-9620

IBR.45

Telestream

530-470-1300; 877-CLPMAIL

Gigaflip factory

TeraNex

407-517-1086

Media streaming equipment

Circle (714) on Free Info Card

Zapex Technologies

650-930-1300

MPEG-2

power products

Includes: Batteries; Battery analyzers; Battery chargers; Lightning protection products; Power (AC) products; Power supplies

Anton/Bauer

203-929-1100; 800-422-3473

* Gold Mount

* HyTRON 100

* InterActive 2000 PowerCharger Series

Aspen Electronics

714-379-2515

* Analogger Battery Maintenance Software

* Bantam series

Cool-Lux

805-482-4820; 800-ACDC-LUX

* Battery Belt L-10

* COOLBrick battery pack

ERI-Electronics Research

812-925-6000

* Lightning Protection/Dissipation & Grounding Systems

Frezzi Energy Systems

973-427-1160; 800-345-1030

* FSP-100

* M2100

Furman Sound

707-763-1010

AR-1230 voltage regulator 120V/30A

IDX Technology/IKON Video

619-560-9779

Endura

IA-60

Neutrik USA Inc

732-901-9488

NAC3FFCA/B & NAC3MPA/B

Powercon

North Star Technical Services/

Best Power

954-921-5868; 800-842-1671

* Best model 610

* FERRUPS

PAG USA

805-520-4911; 888-PAGUSA1

* AR Series 2

* Lithium-Ion time batteries

* MC 124

Superior Electric (formerly Warner Electric)

860-585-4500; 800-787-3532

POWERSTAT L2M Series

Stabiline PPC Series



www.rossvideo.com

Ross Video manufactures Synergy digital production switchers, analog production switchers, and RossGear terminal equipment including encoders, decoders, audio and video distribution products, video keyers, and mini-master control switchers.

production switchers

Includes: Compositing systems; DVEs; Keyers; Production switchers

Accom

650-328-3818

* Abekas A8150

* Dveous

Abekas HDveous

Avtek Systems

978-422-3466; 800-423-0913

PVS-2

TriKey Multiple Downstream Keyer

Broadcast Video Systems

905-764-1584

* Masterkey 7

Circle (440) on Free Info Card

Composite and component analog keyers

Circle (625) on Free Info Card

Chyron

631-845-2000; 888 4 CHYRON

Compositing products

Discreet Logic

514-272-0525; 800-869-3504

Flame

Circle (670) on Free Info Card

Flint*

Circle (671) on Free Info Card

DNF Controls

818-252-0198

* Peripheral bus interface

Circle (455) on Free Info Card

e-Studio LIVE (formerly EchoLabs)

978-250-3334

2000 Series Switchers

5000 Series Switchers

Ensemble Designs

530-478-1830

Catalyst CV

Evertz Microsystems Ltd

905-335-3700

* HD9525LG

Circle (404) on Free Info Card

9525 downstream keyer & logo inserters

Circle (551) on Free Info Card

9580 digital telecine keyer

Circle (552) on Free Info Card

For-A Corporation of America

352-371-1505

* VPS-400

Grass Valley Group

800-547-8949; 800-824-5127

* GVeous DVE

* Kalypso

* Model 1200, 2200, 4000

Grass Valley Model 1200

Profile LVS

Harris Corporation, Broadcast Communications Div.

513-459-3400; 800-622-0022

Color indicates advertisers

* DTV/HDTV ready products

Praising Quality!



Come celebrate Tadiran Scopus' new additions to its end-to-end solutions! Whatever you require - Digital Turnaround, Statistical Multiplexing, DSNG, IP and Data over DVB platform or more - our unique system architecture and cutting-edge technology deliver superior performance.

CBS Newspath, Cablecom, Telespazio and other leading broadcasters have already made their choice. **What about you?**



DVB - MPEG-2 - DopenTV
4:2:0 - 4:2:2

Tadiran Scopus Ltd.
5 Hatzoref Street, P.O.Box 267
Holon 58102, Israel
Tel: +972-3-557-6200
Fax: +972-3-557-6249
E-mail: info@tadiranscopus.com

Tadiran Scopus Inc.
12265 World Trade Drive, Suite G
San Diego, CA 92128
Tel: (858) 618-1600
Fax: (858) 618-1615
E-mail: info@tadiranscopus.com

www.tadiranscopus.com

Next Generation Video Compression Solutions™

Circle (123) on Free Info Card
www.americanradiohistory.com

Hotronic Inc

408-378-3883

AQ21-SP TBC/Switcher w/Digital Effects & Chroma/Luma

MicroVideo Ltd

+44 1223 834

NEC America Inc Broadcast Equipment Department

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

* CineTouch

Panasonic Broadcast

323-436-3500; 800-528-8601

* AV-HS3100 Millenium I 1080i 10-input switchers

Philips Digital Video Systems

818-729-7700; 800-962-4287

* DD Series

Play Incorporated

916-851-0800; 800-306-PLAY

Trinity 2.2

Quantel

203-656-3100; 800-218-0051

* Henry

* Henry Infinity



Synergy I

Ross Video Ltd

613-652-4886

* Digital upgrade for GVG 100/110 switchers

Circle (361) on Free Info Card

* Synergy I

Circle (484) on Free Info Card

210A

Circle (540) on Free Info Card



HD DaVE

Snell & Wilcox

408-260-1000

* Golden DaVE

Circle (393) on Free Info Card

* HD 1200 DVE "DaVE Alone"

Circle (399) on Free Info Card

* HD1012/1024 HD production switcher

Circle (403) on Free Info Card

Studer Professional Audio AG

+41 1 870 75

Thomson Broadcast

201-569-1650; 800-882-1824

Alteo series

Videonics

408-866-8300; 800-338-3348

Effetto Pronto 2.0

MXProDV

VideoTek

610-327-2292; 800-800-5719

recording media

Includes: Bulk erasers; Recordable media (tape and disc)

JVC Professional Products Co

973-315-5000; 800-JVC-5825

* D-124

Maxell Corp of America

201-794-5922; 800-533-2836

* 1" Cassette for HDTV

* D-5 Cassette

* Digital videotape

ADAT-40DA

RTI-Research Technology Intl.

847-677-3000; 800-323-7520

Models for ACL tape formats

Sony Electronics Inc/Media Solutions Co.

201-599-3470

BCT-MA

BCT-MX series

BCTD series metal tape

DARS/AME

rf components

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

Allied Tower Company

281-535-0501; 800-332-0025

Towers

Andrew Corporation

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

* MACXLine, WIDELine and Accessories

Circle (439) on Free Info Card

* Transmission line

Circle (495) on Free Info Card

XT4500 DryLine automatic dehydrators

Circle (808) on Free Info Card

Central Tower Inc

812-853-0595; 800-664-8222

* Towers

Coaxial Dynamics

216-267-2233; 800-COAXIAL

Dummy Loads



K-2 Power Amp

CPI Eimac Division

650-592-1221; 800-414-TUBE

* HDTV IOTs

Circle (411) on Free Info Card

* K2 Squared IOT power amplifiers

Circle (427) on Free Info Card

Analog IOTs

Circle (563) on Free Info Card

Dialight

732-223-9400

LED Obstruction Light

Dielectric Communications

207-655-4555; 800-341-9678

* digiTLine

* DTV Filters

* EHTLine

Color indicates advertisers

* DTV/HDTV ready products

Spotting the best Scan Converter should always be this easy.



You're looking at the best autosync video scan converter available anywhere. The CGC-4000 can turn your high-resolution desktop workstation, PC or Mac presentations into broadcast-quality videos.

CGC-4000 features:

- Broadcast-Quality NTSC/PAL Output
- Full 24-bit Digital Signal Processing
- True Autosync Operation
- Dynamic Pan & Zoom
- Optional SDI Output (4:2:2)
- Betacam, S-Video (Y/C) Outputs
- Auto & User-Selectable Filtering
- RS-232 Interface
- 15-pin Connector for PC Applications
- Full 3-year Warranty

Enhance your image, put a Folsom Video Scan Converter to work for your next application.

Circle (124) on Free Info Card

©2000 Folsom Research, Inc. All rights reserved.

**Serial
Digital
Output
(4:2:2)**

**Computer
-To-
Video**

**Broadcast
Quality
Output**

**RS-232
Interface**

To get information,
see a free demonstration,
or to order, call us or
visit us online at: **www.folsom.com**.

Folsom[™]
RESEARCH
Enhance Your Image

1-888-414-SCAN

tel 916.859.2500 fax 916.859.2515

11101-A Trade Center Drive Rancho Cordova, CA 95670

ERI-Electronics Research

812-925-6000

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

LeBLANC Broadcast

905-844-1242

* Broadcast towers to 2000'

Circle (339) on Free Info Card

Litton Electron Devices

570-326-3561; 800-861-1UHF

* Complete Line of TWTs for C- and
Ku-band

* Line of IOTs, Cavities and CEAs



IOT 9707

Marconi Applied Technologies

914-592-6050; 800-342-5338

* IOT9707

Circle (419) on Free Info Card

* IOTs Build-up UHF

Circle (421) on Free Info Card

MYAT Inc

201-767-5380

* 6 1/8" Transmission Line

* E*STAR

* SPECTRALINE

Penta Labs

818-882-3872; 800-421-4219

* Full Line of RF Power Tubes



Solid Rod Towers

PiROD Inc

219-936-4221

* Solid Rod Towers to 1500ft

Circle (473) on Free Info Card

SU series

Circle (773) on Free Info Card

ROHN Industries, Inc.

309-697-4400; 800-225-7646

* Towers

Line Accessories

Tower accessories

Tower lighting equipment

Sabre Communications

712-258-6690; 800-369-6690

All types of tower accessories available

Solid round & angled guyed towers

Tubular & solid round self-support
towers

Shively Labs

207-647-3327; 888 SHIVELY

* Dual channel combiner

* Patented B-line

Silicon Valley Power Amplifiers

408-986-9700; 800-986-9700

IPA's

Low power VHF & UHF amplifiers

SpectraSite Broadcast Group

972-550-9500

Doty Moore Tower Services

Stainless Towers

SWR

814-472-5436; 800-762-7743

* K-line

Digital Rigid Coax



TH-770

Thomson Components & Tubes Corp

973-812-9000

* TH 680

Circle (488) on Free Info Card

* TH 755

Circle (489) on Free Info Card

* TH 760

Circle (490) on Free Info Card

* TH 770

Circle (491) on Free Info Card

* TH 790

Circle (492) on Free Info Card

satellite equipment

Includes: Satellite receivers and antennas; Satellite uplinks



Earthstation antennas

Andrew Corporation

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

* SNG antennas

Circle (472) on Free Info Card

Earthstation antennas

Circle (657) on Free Info Card

ValuStar line

Circle (788) on Free Info Card

Audio-Technica US Inc

330-686-2600

ATW-A20

Circle (566) on Free Info Card



Barco Communication Systems has a new name:

BarcoNet

More than just a name change, however. A new name for a new company, and a new vision: a future that embraces the world of broadband and delivers more interactive services. A future we already understand.

Working as your partner, we will help you find reliable multimedia distribution solutions that continue to satisfy the demands of your customers. From this day to the next. From one world to another.

To see the light and find out more, visit
www.barconet.com



CONNECTING WORLDS TRANSMITTING IDEAS

Circle (125) on Free Info Card
www.americanradiohistory.com

CPI Satcom Division

650-846-3700
Klystron power amplifiers
Solid state amplifiers
TWT amplifiers

DH Satellite

608-326-8406; 800-627-9443
Satellite Dishes

Marconi Applied Technologies

914-592-6050; 800-342-5338

* Stellar

Circle (479) on Free Info Card

N6310/2/5/8

Circle (723) on Free Info Card

NTL

+44 1962 823

Satellite Export & Engineering

517-629-5990; 800-470-3510
Patriot commercial Offset Antenna
Patriot Cost-Efficient Offset antennas
Patriot Prime Focus Antennas

Standard Communications Corp

310-532-5300
MT900B
MT930 GlobalVu receiver
OMNI Digital 4:2:2CI

Thomson Components & Tubes Corp

973-812-9000
TH 3976/TH 3977D
Circle (775) on Free Info Card
TH 4030
Circle (776) on Free Info Card

Wegener Communications

770-814-4000; 800-848-9467
* UNITY4000
* UNITY4422 MPEG 4:2:2 satellite receiver
Compel IRD
UNITY 500
Unity 5000

studio accessories

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

AccuWeather Inc

814-237-0309; 800-566-6606
* AccuNet Web Content
* Exclusive AccuWeather Forecast
* FirstWarn Neighborhood Nexrad

APW Zero Cases

801-299-7354; 800-416-9025
Rotomolded plastic 19" rack container

CANARE

818-365-2446
* 5-way Cable Stripper

Chief Manufacturing Inc

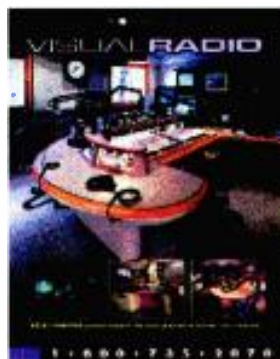
952-894-6280; 800-582-6480
SV-1 LCD Projector Stands



ESE-101

ESE

310-322-2136
* LX-5116
Circle (438) on Free Info Card
5100 Series
Circle (545) on Free Info Card
ES-101, -102, -185A
Circle (662) on Free Info Card
LX-5105
Circle (703) on Free Info Card
PC-471
Circle (735) on Free Info Card



Post production console

Forecast Consoles Inc

631-253-9000; 800-735-2070
Broadcast consoles
Circle (576) on Free Info Card
Image Master
Circle (688) on Free Info Card
Post Production consoles
Circle (739) on Free Info Card

Herman Electronics

305-477-0063; 800-938-4376
Belden - HDTV

Horita Co Inc

949-489-0240
GPS-MTG

Mager Systems

623-780-0045
Studio Furniture

Maxell Corp of America

201-794-5922; 800-533-2836
* CL-S cleaning solution

Radio Systems Inc

856-467-8000
CT-6

RTI-Research Technology International

847-677-3000; 800-323-7520
Lipsner-Smith CF-8200

Spacewise Broadcast Furniture Inc

480-704-9385; 800-775-3660
* Studio Furniture
Spacewise Consoles

Studio Technology

610-640-1229; 800-676-0216
Studio furniture

V-Soft Communications

319-266-8402; 800-743-3684
* LRStudy
* Probe
* SearchTV
* Vtower
Terrain3D

VDP Inc

505-524-8959; 800-VIDCAD-6
VidCAD Facilities Design and Documentation Program
VidCAD2000

Winsted Corp

952-944-9050; 800-559-6691
* Digital desk, multimedia desk
* E4143
* F8203
* K8571

Color indicates advertisers

* DTV/HDTV ready products



At the 1968 Olympic Games, Al Oerter won the gold by doing something different. And better.

He threw the discus farther than ever before. The only athlete to win a gold medal in the same event in four consecutive Olympic competitions, Oerter set a new record each time he won.



ADC's Broadcast Systems Division has its own record of long-term, unrivalled performance. We engineer and implement unique, high quality transmitter system designs, including innovative digital television solutions that will meet your needs into the future.

Like Al Oerter's four successive gold medals, ADC keeps getting better and better. From the widest line of high performance television transmitter products to peerless customer service, ADC ensures that you get the solution that best fits your broadcast goals. ADC is a different — and better — kind of company.

For more information about what ADC's Broadcast Systems Division can offer you, call **800.215.2614** in North America or **724.941.1500** worldwide. You can also visit our website at **www.adc.com/broadcast**.

EQUIPMENT

SOFTWARE

SERVICES



The Broadband Company

Powerful. Creative. Affordable. Collage



Collage 2 is the next generation of the award-winning Collage series of graphics systems from Pixel Power. Based upon the experience of over 1000 Collage systems in use worldwide, Collage 2 combines our innovative character generation, still store and paint software with a state-of-the-art new hardware platform. The result is breakthrough performance in easy to use on-air graphics.

With open interfaces available for most broadcast automation and newsroom systems, comprehensive file interchange and ethernet networking standard, Collage 2 is the perfect tool for graphics preparation and playout.

Best of all Collage 2 is affordable. For more information or to arrange a demonstration, call (561) 395-4801 or visit our web site at www.pixelpower.com.

You'll be glad you did!



PixelPower
broadcast graphics solutions

Circle (127) on Free Info Card

TBCs & frame syncs

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

AJA Video

530-274-2048; 800-251-4224

D10C

D10CEA

Analog Way

212-269-1902

Studio Scan XTD 620

Transvector 1600

XTD 820 R

Astro Systems

818-244-1806

* HDTV conversion equipment

Circle (410) on Free Info Card

* SC-7033

Circle (467) on Free Info Card

Axon Digital Design BV

+31 13511 6666

* ARC-3000 Post production

ARC-1000

AS-230/SA-230 & AS-240/SA-240

Chyron

631-845-2000; 888 4 CHYRON

* Dual channel HDTV upconverter

DPS Digital Processing System

859-371-5533; 800-775-3314

* DPS-290

Circle (365) on Free Info Card

DPS-600 HDTV

Circle (640) on Free Info Card

Ensemble Designs

530-478-1830

Avenue Video & Audio signal integration

TC400D

Evertz Microsystems Ltd

905-335-3700

* 7730DAC-HD

Circle (316) on Free Info Card

Extron Electronics

714-491-1500; 800-633-9876

VSC series

Circle (805) on Free Info Card

Color indicates advertisers

* DTV/HDTV ready products

The newest edition of our dynasty.



THE NEW VTM-400HD MULTI-FORMAT HIGH DEFINITION ON SCREEN MONITOR EXTENDS VIDEOTEK'S REVOLUTIONARY MONITORING SYSTEM FAMILY TO HIGH DEFINITION TV FORMATS.

The VTM-400HD accepts 720p, 1080i, and 1080p/24sF formats and can simultaneously display picture, waveform, vector, audio and alarm information on a high-resolution XGA display in either 16:9 or 4:3 aspect ratio.

Multiple inputs, filters and line selects allow the mix of waveform displays you need. Alarm limit conditions can be adjusted and displayed with time and date stamps. The optional SpyderWeb™ software enables logging of all alarms to a PC and networking of multiple VTM-400HD units for unattended signal quality monitoring over a LAN, WAN, and Internet.

Audio options allow for simultaneous viewing of 2, 4, 6, or 8 audio channels, including levels and phase, plus Videotek's exclusive CineSound™ display for monitoring 5.1 or 7.1 channels of audio.

Packed with features important to editors, producers, and engineers, the VTM-400HD is truly the ultimate HDTV monitoring solution.

For more information on the VTM-400HD, call one of our sales engineers at 800-800-5719, or visit our web site at www.videotek.com.

VIDEOTEK® Five Year Warranty
A Zero Defects Company ISO-9001 Certified

Circle (128) on Free Info Card

Premium Quality, Intelligent Design, Total Value... That's Videotek.

SpyderWeb™ and CineSound™ are trademarks of Videotek, Inc.



XA6110PXC

TeraNex

407-517-1086

* XA6110PXC

Circle (533) on Free Info Card

* XHS600I

Circle (535) on Free Info Card

* XS-400I

Circle (536) on Free Info Card

* XU4100PXC-1x3

Circle (537) on Free Info Card

TV One Multimedia Solutions

859-282-7303; 800-721-4044

CORIO Scan Select

VideoTek

610-327-2292; 800-800-5719

*VDP series

Circle (512) on Free Info Card

Zandar Technologies

408-782-9725

Zapex Technologies

650-930-1300

2L-330

VIDEOTEK
A Data Defects Company

www.videotek.com

Videotek has the complete solution whether you need to route, distribute, process, test or measure analog composite, CAV, 60I, HD, MPEG, video or AES/EBU audio.

test & measurement

Includes: Audio test and measurement equipment; Compression/MPEG test equipment; RF test equipment; Spectrum analyzers; Sync/test generators; Test equipment-general; TV aural modulation monitors; TV RF monitoring equipment; Video analyzers; Waveform monitors/ vectorscopes

ADC Broadcast Systems Division

724-941-1500; 800-215-2614

Advanced Control System

Circle (559) on Free Info Card

Acterna

858-279-2200; 800-854-2708

*WWG DTS-A

*WWG DTS-G

DTS-100



TS-780I

Astro Systems

818-244-1806

* SG-7800

Circle (469) on Free Info Card

TS-780I

Circle (781) on Free Info Card

Audemat Inc

978-392-2110

AM-MC3

Fieldstar

FM-MC3.2 w/ Goldenear

Goldenear 2

Measurement On Line

Audio Precision

503-627-0832; 800-231-7350

ATS-I Dual Domain audio interface/ analyzer

Portable One Dual Domain with 96 kHz sampling rate

System Two Cascade

AVCOM of Virginia Inc

804-794-2500

* MSA-90A

* PSA-33A

* PSA-37D

Belar Electronics Lab Inc

610-687-5550

*TVMA-I

DSP-based spectrum analyzer

Broadcast Video Systems

905-764-1584

VITS 2

Circle (797) on Free Info Card

Coaxial Dynamics

216-267-2233; 800-COAXIAL

81000-A-81600-A

Dolby Laboratories Inc

415-558-0200; 800-33-DOLBY

* DM 100

ESE

310-322-2136

ES-219A

Circle (666) on Free Info Card



DVS-150

Extron Electronics

714-491-1500; 800-633-9876

* DVS 150

Circle (379) on Free Info Card

Hamlet Video International Ltd

+44 1494 793 ; +44 0500 625 525

* ADEPT

* PROTEAN

DigiScope DS60I

Monitor Scope MS60I

Stereo Scope 503

Video Scope 30I WVA

Over 1,000,000 times

a month creative professionals visit a
DigitalMediaNet.com community

Are you one in a million?

DigitalMediaNet.com -
The latest information for digital media
professionals, every business day.



Digital Media NET

Where the Creative Community Meets
www.digitalmedianet.com

LV 5152DA HDTV Digital Waveform Monitor



Includes all of the features of the award winning LV 5152D (see below) plus:

- 1035i/60 (59.94), 1080i/60 (59.94), 1080i/50, 1080p/30 (29.97), 1080p/25, 1080p/24 (23.98), 1080/24sF (23.98), 720p/60 (59.94)
- Two Serial Inputs with Switched SDI Output plus one 3-wire analog input
- Hex Readout of All Data Points
- Capture and Log of Color Gamut Errors
- SDI Stream Quality in Terms of Equivalent Cable Length
- Strips and Outputs Embedded Digital Audio
- Logs Data Error as Time of First Error, Elapsed Time and Error Count Since First Error

Circle (175) on Free Info Card

LV 5152D HDTV Digital Waveform Monitor



- HDTV Waveform, Component Vector, Picture Monitor
- Two SDI Inputs with Switched SDI Output
- Analog (3-Wire) Inputs
- Picture Monitor Output of YPbPr or GBR
- YCbCr or GBR Waveform Display
- Overlay, Timing and Parade 3-Channel Waveforms
- CbCr Component Vector Display
- Choice of Electronic or External (Illuminated) Vector Scale

Circle (176) on Free Info Card

LV 5100D/DE/DU Digital Component Waveform Monitors



LV 5100DE shown

- Component Digital and Component/Composite Analog
- Eye Pattern (SDI Waveform), Model LV 5100DE Only
- EDH Facilities
- Hex Readout of All Data Samples
- Serial Data Signal Strength Reading in Terms of Equivalent Length of Coax Cable
- User-Selected Alarms
- Picture Display of Y or G
- Full Line Select with Strobe on Picture Display
- Preset/Recall of 10 Front Panel Setups
- LV 5100DU includes all of the features of the LV 5100D EXCEPT analog input.

Circle (177) on Free Info Card

LV 5836B Surround Audio Monitor



- 6-Channel AES/EBU Digital Inputs
- 6-Channel Bargraph Level Display for Dolby Digital
- Accepts 6-CH Digital Audio Inputs from LV 5152DA
- Channel Status Screens for Basic Metadata and Bit Dump
- Precision Sound Image Display Confirms Mixing and Mic Placement
- Surround Sound Image Shows Balance Left to Right and Front to Rear
- Displays Dolby Pro-Logic L-C-R-S (4:2:4) Mode
- Displays Dolby Digital L/R, C/Lfe, Ls/Rs (5.1) Mode

Circle (178) on Free Info Card

LT 441D HDTV Digital Generator — Multiformat



- Supports 14 Variations of 720p, 1035i, 1080i Line Systems Including 1080/24 Segmented Frame
- Digital Genlock to Tri-Level Sync or NTSC/PAL Black Burst
- ± 100 Line Advance/Delay
- Eight Channels of AES/EBU Embedded Audio
- Six Channels of AES/EBU Digital Outputs
- New Monoscope Test Pattern Plus Pathological Check Field
- Dynamic Patterns for Compression Tests
- Optional Bitmap Download Capabilities

Circle (179) on Free Info Card

LT 425D Digital Component Signal Generator



- 4 Serial (Includes Digital Black) and 1 Parallel Outputs
- EDH Codes in Accordance With RP-165
- 4-Channel AES/EBU Embedded Audio **plus** Independent AES/EBU Digital Audio Output
- Compression Tests Include Variable Speed, Direction Controlled Marker and Sequentially Switched Patterns
- 20 Character Programmable ID and Calendar/Clock
- SMPTE Color Bars (BBC Bars in 625/50)
- Ramp: Oversize, Digital Limit and Shallow
- SDI Pathological Check Field

Circle (185) on Free Info Card

Leader Instruments Corporation

6484 Commerce Drive, Cypress, California 90630 Tel: (714) 527-9300 Fax: (714) 527-7490

Regional Offices: Atlanta, Boston, Chicago, Cleveland, Dallas, Los Angeles, New York

For additional information call 1 (800) 645-5104

Visit our web site at www.LeaderUSA.com or e-mail us at sales@LeaderUSA.com

Leader Does It Better!



Model LV5836B

Model LV5152DA

Now, the Most Complete HDTV Audio/Video Test Solutions You Can Use!

See it to believe it! This new Leader Instrument system offers both digital video and digital audio testing in a single rack-mount package. It honors Leader's tradition of creating complete, flexible test systems with analog monitoring capabilities built-in to expand versatility. Here are some feature highlights:

LV 5836B - Surround Digital/Analog Audio Monitor

- Receives Extracted Digital Audio (AES/EBU) from LV 5152DA or use stand-alone.
- Monitors 6-CH of Dolby Digital and 5-CH of Analog Audio
- Innovative Sound Image Display Enables Fast Sound Setup in Production.
- Matrix Multi-CH Display Permits Audio Component Phase Comparisons.
- Simultaneous Level and Phase Monitoring Screens.
- 6-CH Bargraph Display.
- CH Status Data Screen and Bit Dump.

LV 5152DA - HD Digital/Analog Waveform Monitor

- All the features of the Award Winning LV 5150D and LV 5152D
- PLUS:**
- Multi-Format HD Monitor sets up for: 1080i (60/59.94/50), 1080p (30/29.97/25/24/23.98/24sF/23.98sF), 1035i (60/59.94) and 720p (60/59.94).
 - Waveform, Vector, Picture Monitor and X-Y Modes.
 - 8-CH AES/EBU Digital Audio Outputs (16, 18, 20 or 24 bit).
 - RGB Gamut Error and P-P Readout of Waveform Components.
 - Hex Data Dump, Extensive Error Logging, Custom Alarms.

Prove It To Yourself!

Call 1-800-645-5104 For A Free On-Site Evaluation Today

Some of Our Customers...

• ABC • Bexel • CBS • Crawford Communications • DaVinci • Foto-Kem • Laser Pacific • Lighthouse Digital • N-Vision
• Pacific Video • PESA • Sony Pictures (HD) • Tapehouse Editorial • Universal Studios • Utah Scientific • Warner Bros.

1 800 645-5104 / www.LeaderUSA.com

LEADER

FOR PROFESSIONALS WHO KNOW
THE DIFFERENCE

6484 Commerce Drive, Cypress, CA 90630 Tel: (714) 527-9300 Fax: (714) 527-7490
Regional Offices: Atlanta, Boston, Chicago, Cleveland, Dallas, Los Angeles

Harris Corporation, Broadcast Communications Div.

513-459-3400; 800-622-0022

* ARX-H200

Circle (329) on Free Info Card

* CD Eye

Circle (342) on Free Info Card

* MONITORplus

Circle (443) on Free Info Card

Holaday Industries Inc

952-934-4920; 877-HOLADAY

EMF measurement products

HI-4455 and HI-4457 field probes

Personal RF monitors & protective clothing

Horita Co Inc

949-489-0240

BSG-50

TSG-50

Hotronic Inc

408-378-3883

AG2 Analog & Digital

ITIS Innovation Telecommunications Image Son

+33 2 99 23 72

* V-DTR

Keywest Technology

913-492-4666; 800-331-2019

* Hamlet Digiscope 601

Circle (397) on Free Info Card

KTech Telecommunications, Inc.

818-361-2248

* DVM-100 8-VSB

Circle (375) on Free Info Card

Magni Systems

503-615-1900; 800-237-5964

AVM-510

MM-400

SDM series

SDM-560

Modulation Sciences

732-302-3090; 800-826-2603

* MSI 320

SRD-I

TVMM-I

Multidyne Video & Fiber Optic Systems

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

TS12-CARD

Circle (780) on Free Info Card

Neutrik USA Inc

732-901-9488

Minirator MRI

MRI/MLI

Pixelmetrix Corporation

+65 5474935; 877-717-4935

* DV Station

* VP2000 series Picture Quality Analyzer

Prism Media Products Inc

973-983-9577

DSA-I Portable Analyzer

dScope Series III

DScope-S

JM-I Jitter Modulator

Radyne Comstream Corporation

602-437-9620

* ABR202

* DBR2000



ETA-T

Rohde & Schwarz

(301) 459-8800

* DVQ

Circle (378) on Free Info Card

* ETA-T

Circle (386) on Free Info Card

Sencore Electronics

605-339-0100; 800-SENCORE

* AD 953 MPEG-2/ATSC Stream Station

* AT951 ATSC Stream Player:

Tektronix Inc

503-627-7111; 800-835-9433

* MTG300

* PQA200

* PQM300

TerraSonde

303-545-5848; 888-433-2821

The Audio Toolbox

Trompeter Electronics Inc

818-707-2020; 800-982-2629

* BNC tester, P/N 010-0133

Circle (337) on Free Info Card

Video Accessory Corp

303-443-4950; 800-821-0426

VB/BBG-3 black burst generator

Videoframe Systems Inc.

530-477-2000

* SNMP interfaces



VTM-400HD

VideoTek

610-327-2292; 800-800-5719

* VSG series

Circle (529) on Free Info Card

* VTM-400HD

Circle (530) on Free Info Card

Z Technology Inc

503-614-9800

* DM-1000/2000

DSS-5200

Zapex Technologies

650-930-1300



EMCEE Broadcast Products, Inc.

www.emceebroadcast.com

EMCEE Broadcast Products Inc., a leading provider of broadcast transmission products provides wireless cable equipment for MMDS, low-power UHF/VHF transmitters and high-power UHF transmitters.

transmitters

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

Acrodyne Industries

800-523-2596

* Adjacent Channel Technology

* LPTV Transmitters and Translators

* Medium Power Television Transmitters

* Quantum

Color indicates advertisers

* DTV/HDTV ready products

The Most Demanding Markets

Chicago



Boston



Los Angeles



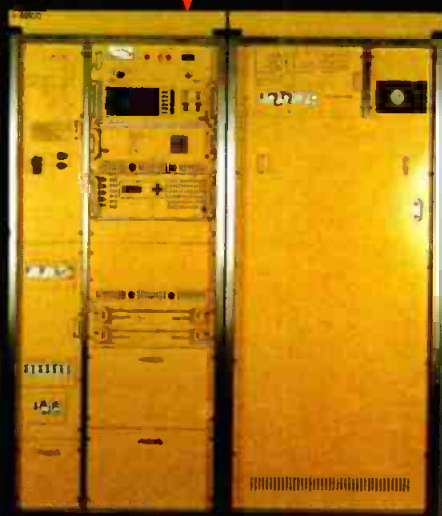
New York



Dallas



Demand Itelco



Across the country and around the world, the most trusted name in transmitters is Itelco. Whether you're replacing an existing analog plant, fulfilling the requirements of the DTV mandate—or both—you can count on Itelco's complete transmission solutions. Engineered excellence means reliable operation year after year. Stringent design specifications guarantee unrivaled on-air performance. Our unique Itelco Supervisory System provides single-point monitoring and control of multiple transmission sites. No wonder Itelco's been the choice for more than 14,000 installations since 1961.



7575 West 103rd Avenue, Suite 110
Westminster, CO 80021
Tel: (303) 464-8000 Fax: (303) 464-8770
E-mail: tvsales@itelco-usa.com
www.itelco-usa.com



DTV transmitters

ADC Broadcast Systems Division

724-941-1500; 800-215-2614

* 800 Series

Circle (317) on Free Info Card

* 840A

Circle (318) on Free Info Card

* DTV transmitters

Circle (370) on Free Info Card

* Exciter Plus system

Circle (387) on Free Info Card

* Visionary Series

Circle (521) on Free Info Card

Advanced Broadcast Systems Inc

859-689-0075; 800-499-4554

* BEST Series

* CST-II Series

Andrew Corporation

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

* Andrew/ADC wideband and VHF/UHF

Circle (328) on Free Info Card

* Single or multi-channel TRASAR

Circle (471) on Free Info Card

HMD and DataMaster series

Circle (687) on Free Info Card

Audemat Inc

978-392-2110

ITS4

Davicom Technologies

819-370-4343; 800-465-4343

* M-A-C Monitoring-Alarm-Control System

Dielectric Communications

207-655-4555; 800-341-9678

* Antennas

* Dual channel antennas

* Stacked antennas

Dual Switch Controller



TTU1000FA

EMCEE Broadcast Products

570-443-9575; 800-233-6193

* TTU2500HD

Circle (501) on Free Info Card

* TTV250HD VHF Solid State Digital Transmitter

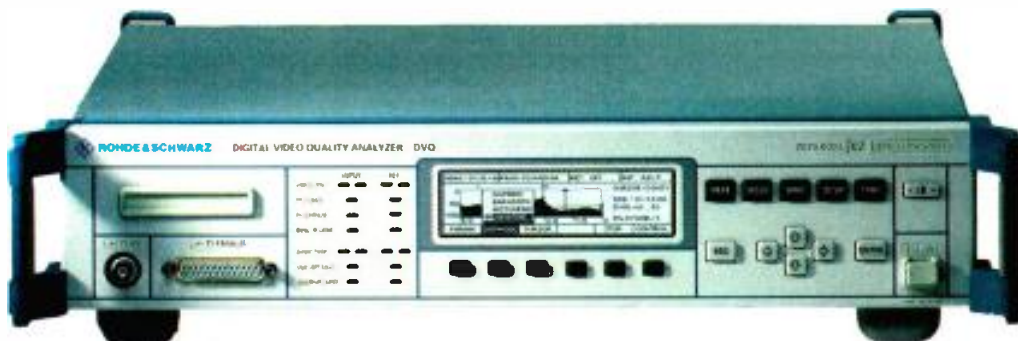
Circle (503) on Free Info Card

UHF & VHF television translators

Circle (784) on Free Info Card

Digital Video Quality Analyzer DVQ

- Realtime measurement
- No reference signal required
- SSCQE scaling of quality levels
- Monitoring of picture freeze, picture and audio loss
- Recording of quality profile (long term)
- ITU-R 601 and MPEG2 inputs
- Professional Profile 4:2:2
- Histogram representation of quality levels
- Internal event and error report and statistics
- Program decoding



ROHDE & SCHWARZ

Internet: <http://www.rohde-schwarz.com>

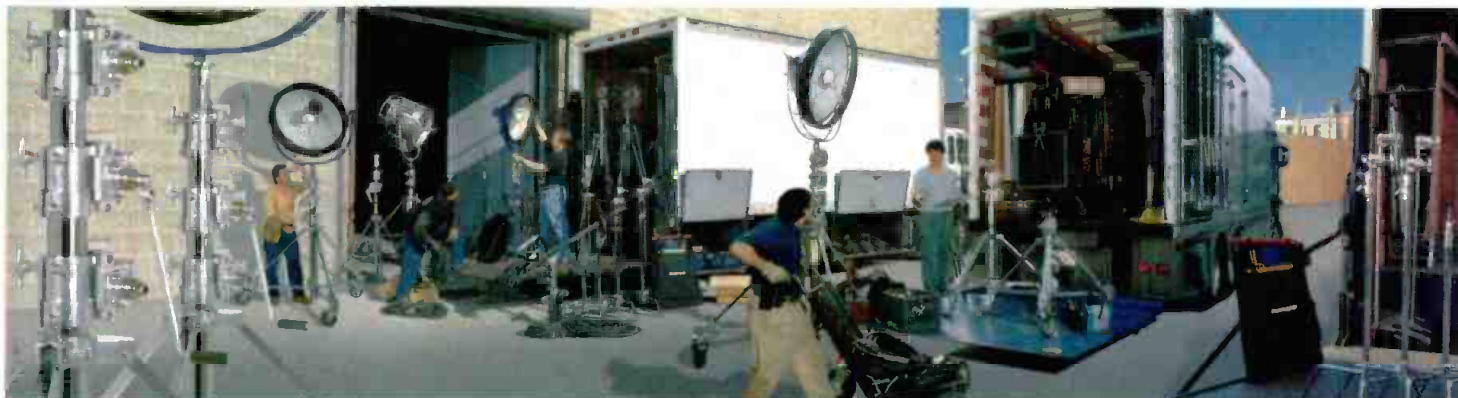
ROHDE & SCHWARZ, INC.
7150-K Riverwood Drive
Columbia, MD 21046-1245
Phone: (301) 459-8800
Fax: (301) 459-2810

Circle (133) on Free Info Card

bogen SOLUTIONS



Smooth Operators - Smooth control, positive fluid movement combined with the lightest of tripods - Manfrotto support systems are designed to meet the needs of the latest digital and ENG cameras. ● 510 Pro Video Head - advanced step drag system for smooth, repeatable pans and tilts. Payloads up to 23 lbs. ● Lightweight 2-Stage Professional Video Tripod - 100mm bowl, spiked feet and spreader. Loads up to 33 lbs. ● The Ultimate Professional Video Kits - available as separate components. Manfrotto, exceptional support, unsurpassed in quality and value.



Rock & Load - Avenger Professional Lighting Grip for studios and location production. It is easy to use, has many safety features and above all is sturdy and robust. Industrial workhorses for heavy loads and hard working days. ● B140XL crank - aka the Flatjumper - Max Height 14', tall enough for all set wall flats and easy to load at a low 62" ● Lighting Stands - smooth rolling baby and juniors, versatile combos, sure footed overheads, heavy duty wind-ups, versatile accessories and essential mounting equipment. Avenger Grip is ready to rock by the truckload.

AVENGER



Setting New Standards - Gitzo video tripods, fluid heads, microphone fishpoles and accessories are designed for today's digital and lightweight ENG videographer on the go. ● 7 Microphone Fishpoles - three carbon fiber and four aluminum alloy - smooth gliding movement with minimum bow. ● G1380 Fluid Head - separate pan and tilt, variable fluid drag control - smooth and repeatable movements. Weight capacity up to 22 lbs. Gitzo support solutions - the professionals' choice every time.



Bogen Photo Corp., 565 East Crescent Ave, Ramsey, NJ 07446-0506 Tel: (201)818-9500 Fax: (201)818-9177

TNT Seminars, exciting promos & rebates —click to www.bogenphoto.com

Harris Corporation, Broadcast Communications Div.

513-459-3400; 800-622-0022

* CD 1A

Circle (341) on Free Info Card

* DiamondCD series

Circle (357) on Free Info Card

* PlatinumCD series

Circle (457) on Free Info Card

* SIGMA CD-II series

Circle (470) on Free Info Card



DTV Solid State transmitter

Itelco USA Inc

303-464-8000

* 8-VSB IWrms DTV exciter

Circle (319) on Free Info Card

* DTV microwave systems

Circle (368) on Free Info Card

* DTV solid state translators

Circle (369) on Free Info Card

KTech Telecommunications, Inc.

818-361-2248

* VSB-ENC-200 8-VSB Modulator

Circle (524) on Free Info Card

* VSB-REM0D-100

Circle (525) on Free Info Card

VSB-AMP-3W-8vSB

Circle (802) on Free Info Card



Larcan MD series

LeBLANC Broadcast

905-844-1242

* Landmark

Circle (432) on Free Info Card

* Larcan MD series

Circle (433) on Free Info Card

* Larcan-TTC MX series

Circle (434) on Free Info Card

NEC America Inc Broadcast Equipment Department

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

* Agile series

* DTU/DTV

* Multichannel DTV translator

OMB America

305-477-0974

TV Transmitters

Sencore Electronics

605-339-0100; 800-SENORE

ATSC-987 VSB modulator

Shively Labs

207-647-3327; 888 SHIVELY

* NTSC/DTV antennas

* Series 2000 transmit antenna

* UHF Superturnstile antennas

Panel antennas

Silicon Valley Power Amplifiers

408-986-9700; 800-986-9700

10/3000

470-806-10E30

40 years of engineering
expertise built into
every Radamec robotic
pedestal system.

RADAMEC

BROADCAST SYSTEMS

*The world leader in broadcast
robotic control camera systems.*

Superior and Dependable Technology

- Robotic to Manual Control With the Flick of a Switch – No re-alignment necessary
- Advanced Pedestal Navigation System – No need to re-target pedestals between each show
- Exclusive IR collision avoidance sensors for safety
- Easy upgrade path to virtual set technology

Ergonomics

- Elegant and efficient design – built in redundancy
- Easy to use Touch Screen Menu Operation
- System control from up to 4 workstations
- Control of up to 16 cameras

Not ready for a full system yet? Radamec can build a robotic system using your existing pedestals.

Current customers include: CBS, FOX, FOX News, CNN, KNBC, KTTV, C-SPAN, TXCN, WPXI, Bloomberg, The US Senate, The US House of Representatives, the United Nations and The Weather Channel.



The quality alternative.

1877 RADAMEC

Toll-Free

www.radamec.com

Circle (145) on Free Info Card

Media Without Limits

XANTUS

Standards Converters

DTV Format Converters

Encoding

Streaming Media

Media Services

Content Protection

real
time

STARFRONT

Broadband Pre-Compression Processor

DTV Pre-Compression Processor

Video & Film Conversion and
Encoding Tools for Digital Television
Broadband Internet and Digital Cinema

Corporate Office: 7800 Southland Boulevard
Suite 250 ■ Orlando, FL 32809 ■ USA
Tel: 407.517.1086 ■ Fax: 407.517.1101



www.TeraNex.com

VISIT US AT NATPE
BOOTH #1257

Circle (135) on Free Info Card

www.americanradiohistory.com

Superior Broadcast Products

972-473-2577; 800-279-3326

- * UHF transmitters

SWR

814-472-5436; 800-762-7743

- * Clarion DTV Antennas SWCD-36DA
- * Clarion TD Series
- * DTV/NTSC stacked antennas

Thomcast Communications Inc - Comark Division

413-569-0116

- * Advantage
- * Comark DCX
- * DCX
- * Optimum
- Liquid-cooled DTV transmitter

vehicles

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



Hilomast

Allen Osborne

805-495-8420

- * Hilomast
- Circle (803) on Free Info

AVCOM of Virginia Inc

804-794-2500

Satellite equipment

Frontline Communications

727-573-0400

- * DSNG-350
- * ENG vans

RF Technology Inc

203-866-4283; 800-762-4369

- * DST-140 and SNG60/140DT

Shook Electronics USA Inc

210-651-5700; 888-651-5775

- * A-11 ENG
- * AS-2C KU/C

video accessories

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

Analog Way

212-269-1902

S-CUT 120

Audio Accessories Inc

603-446-3335

Line of patch panels

Boland Communications

949-367-9911; 800-918-9090

Digital uniVUer on-screen audio meter

Broadcast Video Systems

905-764-1584

VBI 10

Circle (789) on Free Info Card

VC-2

Circle (791) on Free Info Card

CANARE

818-365-2446

- * SMPTE 259M/292M ready patch panels

Clark Wire & Cable

847-949-9944; 800-222-5348

- * Line of patch panels

Davicom Technologies

819-370-4343; 800-465-4343

- * DSRD-01 Digital Satellite Receiver
- Fault Detector
- TVPM-01 TV power monitor

DNF Controls

818-252-0198

- * ST300SSM-T

Circle (478) on Free Info Card

ESE

310-322-2136

ES-101, -102, -185A

Circle (663) on Free Info Card

ES-488

Circle (667) on Free Info Card

Evertz Microsystems Ltd

905-335-3700

- * Closed caption equipment

Circle (343) on Free Info Card

- * HD9590

Circle (405) on Free Info Card

Time code equipment

Circle (777) on Free Info Card

Gorman-Redlich Mfg Co

740-593-3150

Receiver Indicator Unit

For answers to questions, archives of past articles, users forums and an online buyers guide log on to

www.broadcastengineering.com

images

Motion images, not test patterns or flower pots.

Success is measured by the number of eyeballs glued
to images on *your* channels, screens or website.



To be competitive you need to create an Entertainment
Experience. Beautiful pictures are a vital part of that Experience

...so when it comes to your digital images,
trust the leader in motion video imagery.

Trust your eyes

FAROUDJA LABORATORIES

WORLD LEADER IN VIDEO PROCESSORS, UPCONVERTERS, CHIP SOLUTIONS

Circle (136) on Free Info Card

visit us at www.faroudja.com

www.americanradiohistory.com



FAROUDJA
PICTURE PLUS™

H L Dalis Inc

718-361-1100; 800-453-2547

Custom panels for audio/video
datacom systems

Horita Co Inc

949-489-0240

VLR-100 LTC Generator, VITC/LTC
Reader w/LED Display

Hotronic Inc

408-378-3883

* AL86-D

MicroVideo Ltd

+44 1223 834

* A/V-IDENT

Neutrik USA Inc

732-901-9488

NADITBNC-F & FXQ

NADITBNC-M & MX

Prime Image Inc

408-867-6519

Twister

Sierra Design Labs

775-886-5050; 800-400-8002

* Sierra control panel
Revival

Sierra Video Systems

530-478-1000

FITN-100

Switchcraft Inc

773-792-2700

* Line of video patch panels

Trompeter Electronics Inc

818-707-2020; 800-982-2629

* JSMW64S, J314MW

Circle (425) on Free Info Card

* MP20W monitor plug

Circle (444) on Free Info Card

* Patch panels, jacks, cords & connectors

Circle (454) on Free Info Card

Video Accessory Corp

303-443-4950; 800-821-0426

Brick Series

Video Data Systems

631-231-4400; 800-858-5850

System 840 EAS Overlay System

Videoframe Systems Inc.

530-477-2000

* Tally Expander

TCP/IP

video compression

Includes: Compression encoder/decoders;
Compression pre-processors; Statistical multi-
plexers; Video compression systems; Video noise
reduction systems



D10CEA

AJA Video

530-274-2048; 800-251-4224

R20D-F

Circle (801) on Free Info Card

D10CEA

Circle (802) on Free Info Card

"Synergize" your GVG* 100/110

Two of the world's most popular small analog production switchers,
the GVG 100 and 110, can now be upgraded to **DIGITAL SYNERGY PERFORMANCE**
by simply replacing your frame with a **ROSS SYNERGY I**
Digital Production Switcher Frame.



Your
GVG 100/110
upgraded to
**DIGITAL SYNERGY
PERFORMANCE**
by Ross
\$15K

Get "Synergy 1" features including:

Squeeze & Tease 2D DVE
Ideal for over-the-shoulder boxes

External DVE Integration

Powerful Border Generator

Preview Overlay

16 Digital Inputs

Chroma Keying

10 Aux Busses

... and more!

*GVG is a trademark of Grass Valley Group.
Ross and Synergy are trademarks of Ross Video Limited.
Ross Video is an independent company
and is not affiliated with GVG in any way.



Tel: (613) 652-4886

Fax: (613) 652-4425

www.rossvideo.com

Email: solutions@rossvideo.com

Circle (137) on Free Info Card

Color indicates advertisers

* DTV/HDTV ready products

Astro Systems

818-244-1806

CX-5505A

Circle (626) on Free Info Card

BARCONET

770-590-3600; 800-992-5016

* PICTOR encoder

Circle (456) on Free Info Card

* POLARIS

Circle (458) on Free Info Card

* RE 4221

Circle (462) on Free Info Card

* Regulus

Circle (463) on Free Info Card

Pegasus

Circle (736) on Free Info Card

R20E-F

Chyron

631-845-2000; 888 4 CHYRON

Pro-bel Clarinet

Harmonic (formerly Divicom)

408-490-6560; 877-348-4266

* MediaNode MN20 remultiplexer

* MediaView MV12

* MediaView MV40

Harris Corporation, Broadcast Communications Div.

513-459-3400; 800-622-0022

* NETplus

Circle (446) on Free Info Card

Harmonic Inc

408-542-2500

Statistical multipliers

TransRater

Video compression systems

Heuris

314-534-1514; 800-923-9232

MPEG Power Professional



E4:2:2SX

Keywest Technology

913-492-4666; 800-331-2019

* E4:2:2SX

Circle (382) on Free Info Card

LEL Computer Systems

561-347-2242

Video Pipeline

Video pipeline MPEG-1/2

Video Pipeline-2

Leitch Incorporated

757-548-2300; 800-231-9673

DigiBus

Circle (630) on Free Info Card

Motorola Broadband Communications Sector

858-455-1500; 888-800-8346

* DigiCipher II

Multi-channel

Orad Hi-Tec Systems

212-931-6723

InfraTrack

Philips Digital Video Systems

818-729-7700; 800-962-4287

* DVS 3112

* VS-4 Video Sweetener

TH 770 IOT
60 kW NTSC
25 kW 8VSB

Whatever your application—analogue or digital—our line of plug-in IOTs provides the solution. The same tube can be used either for NTSC or digital TV (8VSB and COFDM). Which means no more hassle with multiple references. In fact, no more hassle, period: The tube's easy plug-in installation means you don't have to remove the cavity. Making your life simpler from ordering to operation. The bottom line is our tubes save energy. Yours. For more information, e-mail us at: info@tctus.com

Analog & Digital

A lot more versatility. A lot simpler for you.

THOMSON COMPONENTS AND TUBES Corp.
You need it, we'll supply it

www.tctus.com

Circle (138) on Free Info Card

Scientific-Atlanta

770-903-5000

- * PowerVu IP
- * PowerVu Plus
- * PowerVu Plus BitMizer
- * PowerVu Plus Originator
- PowerVu MPEG-2/DVB system

Sencore Electronics

605-339-0100; 800-SENCORE
AD992 Slip Stream



Tadiran Scopus - USA

858-618-1600

- * CODICO E-1500

Circle (345) on Free Info Card

- * Codico IRD 2600

Circle (347) on Free Info Card

- * E-1500, Professional High-quality Encoder

Circle (380) on Free Info Card

- * E-1100, Advanced High-end Encoder

Circle (381) on Free Info Card

CID-3100

Circle (585) on Free Info Card

Tandberg Television

949-725-2500

Alteia Plus
evolution 5000

Telestream

530-470-1300; 877-CLPMAIL

ClipMail Pro
ClipMail Pro Clip Express

TeraNex

407-517-1086

Starfront

Circle (767) on Free Info Card

Thomcast Communications Inc - Comark Division

413-569-0116

- * Encoders/decoders

Thomson Broadcast

201-569-1650; 800-882-1824

- * DBE 4000 series

- * DBE 4100

Broadmux/XNA 4600

DBE 4130

Tiernan Communications

858-587-0252; 800-323-0252

- * TDR6 MPEG2

- * TDR600

- * TE3000

- * THE1

Vela

727-507-5300

- * Argus 4:2:2

- * Cineview Pro

- * Cineview Pro XL

Argus

CineCast Quad Pro

Vibrant Technologies

781-275-4088; 877-842-7468

- * Store & Forward encoding application

Wegener Communications

770-814-4000; 800-848-9467

- * Envoy

- * UNITY4000

ENVOY

video editing

Includes: Editing systems and components
Nonlinear editors

Accom

650-328-3818

- * Axial 3000

Affinity NLE System

Antex Electronics

310-532-3092; 800-338-4231

Model SC 2000 StudioCard Plus

Astro Systems

818-244-1806

- * HC-7034

Circle (398) on Free Info Card



DS-HD

Avid Technology

978-640-6789; 800-949-AVID

- * NewsCutter Version 1.5

Circle (448) on Free Info Card

- * Symphony

Circle (482) on Free Info Card

DS HD

Circle (573) on Free Info Card

BOXX Technologies, Inc.

512-835-0400; 877-877-BOXX

- * FusionBOXX HD Nonlinear
RenderBOXX

For more product listings
check out our website.

www.broadcastengineering.com



fire HD

Discreet Logic

514-272-0525; 800-869-3504

* Fire HD

Circle (388) on Free Info Card

Fire 2.0

Circle (669) on Free Info Card

DPS Digital Processing System

859-371-5533; 800-775-3314

* dpsVelocity

Circle (366) on Free Info Card

DPSReality

Circle (641) on Free Info Card

FAST Multimedia

217-356-1884; 800-249-FAST

purple.

silver

iNews (formerly Avstar)

608-274-8686

* EditStar Non-linear News Editor

JVC Professional Products Co

973-315-5000; 800-JVC-5825

* MW-S1000U

Matrox

514-685-2630 x ; 800-361-4903

DigiSuite DTV realtime DV/DV50/

MPEG-2 platform

DigiSuite LX

Media 100

508-460-1600; 800-773-1770

Complete systems for Windows &

Macintosh

DV, SDI, and RealTime Fx options

Panasonic Broadcast

323-436-3500; 800-528-8601

AJ-LT75 All-in-one DVCPRO laptop

editor

DVEDIT DVCPRO-based nonlinear

editing system

newsBYTE 4x transfer DVCPRO

Pinnacle Systems

650-526-1600

DV/1394

MiroVideo DC50

Pixel Power Ltd

+44 1223 721

* Collage EDIT

Play Incorporated

916-851-0800; 800-306-PLAY

Trinity 2.2

Quantel

203-656-3100; 800-218-0051

EditBox FX

IQ

The TH 755 IOT. A whole new replacement solution. It's 100 percent interchangeable with other makers' tubes of the same power class. And it's 100 percent easy to make the change because you can keep

A new alternative.

A direct replacement. A direct new way to save.

your original cavity. But the benefits don't stop there. Like all our IOTs, the TH 755 delivers outstanding operating stability, constant gain, a long lifespan, and cost savings in both acquisition and operation. And it delivers them by design. For more information, e-mail us at: info@tctus.com

THOMSON COMPONENTS AND TUBES Corp.

You need it, we'll supply it

www.tctus.com

Circle (138) on Free Info Card

Sonic Solutions

415-893-8000; 888-5onic-4U
DVD Creator



DNW-A220

Sony Electronics

201-930-1000; 800-686-5ONY
DNE-700/1000

Circle (636) on Free Info Card

DNW-A20 Digital Portable Field
Editor

Circle (638) on Free Info Card

DNW-A200

Circle (639) on Free Info Card

Technical Animation

847-297-1000; 888-447-4935
Discreet, Matrox, DPS, Pinnacle

TecNec/Laird Telemedia

815-246-0428; 800-543-0909
ONE 2 PUNCH

Vibrint Technologies

781-275-4088; 877-842-7468
* NewsEdit

Videomedia Inc

408-227-9977
* V-LAN interfaces
OZ-4.0
OZ-PCE

Viewgraphics

650-903-4900
DTV Xstream System with VideoPump
DI & Clipper

video monitors

Includes: CRT projectors; DLP projectors; Line
doubblers/quadruplers; Plasma displays; Video
monitor parts and accessories; Video monitors;
Video presentation equipment; Video walls

Analog Way

212-269-1902
Smart Fade
TSC 500

Astro Systems

818-244-1806
SC-2034
Circle (752) on Free Info Card

Axon Digital Design BV

+31 13511 6666
CCR-200



ADVM monitors

BARCONET

770-590-3600; 800-992-5016
* ADVM Monitors
Circle (325) on Free Info Card
* HDM 5049
Circle (409) on Free Info Card

Boland Communications

949-367-9911; 800-918-9090
LCD Color #1550 Quad (4x4)
ViewPort Color LCD NTSC/PAL

Christie Digital Systems Inc

519-744-8005
DLV 1280 Super
VistaGRAPHX 5000
VistaGRAPHX Rodie

Electrosonic Systems Inc

952-931-7500; 800-328-6202
ProDigital: Stackable Projection Cubes
Vector: High Performance Image
Control Processor

Extron Electronics

714-491-1500; 800-633-9876
Lancia
Circle (701) on Free Info Card



DVP-2200

Faroudja

408-735-1492
* DVP2200
Circle (376) on Free Info Card
* DVP3000/DVP3000U
Circle (377) on Free Info Card

Elmo Mfg Corp

516-775-3200; 800-947-3566
Presentation Equipment

Hamlet Video International Ltd

+44 1494 793; +44 0500 625 525
Hamlet Digi Scope 60IU
LCD Scope 400

Hoodman Corp

310-379-6391; 800-818-3946
H180-H600

Keywest Technology

913-492-4666; 800-331-2019
LD-2000 Line Doubler
Circle (702) on Free Info Card

Magni Systems

503-615-1900; 800-237-5964
* SDM series

NEC Technologies

630-467-4553; 800-NEC-INFO
PlasmaSync 42MP2
Plasmasync 50pd1
Projectors

Sony Electronics

201-930-1000; 800-686-5ONY
PFM-500A2WU
Circle (738) on Free Info Card

VideoTek

610-327-2292; 800-800-5719
SpyderWeb
Circle (765) on Free Info Card



VMX16

Zandar Technologies

408-782-9725
* DMX-16
Circle (364) on Free Info Card



www.videotek.com

Videotek has the complete solution whether you need to route, distribute, process, test or measure analog composite, CAV, 60I, HD, MPEG, video or AES/EBU audio.

video routing

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

Analog Way

212-269-1902

* Graphic Switcher

Astro Systems

818-244-1806

MPEG-2 TS Splicer

Circle (719) on Free Info Card

AutoPatch

509-235-2636; 800-622-0246

* 1Y-16

8Y-XL

Epica-256

Precis

Broadcast Video Systems

905-764-1584

* DM400 4 Input SDI Key

Circle (362) on Free Info Card

VCA 850

Circle (792) on Free Info Card

Chyron

631-845-2000; 888 4 CHYRON

* 16x2 routers

* Pro-Bel ICON modular product family

* Pro-Bel XD series

Eclipse

Datatek Corp

908-654-8100; 800-882-9100

* D2600/2800 digital video routers
D 2800

DNF Controls

818-252-0198

* SVW32PS-32 RS 422 port switcher

Circle (481) on Free Info Card

RPC

Circle (748) on Free Info Card

DPS Digital Processing System

859-371-5533; 800-775-3314

dpsReality HD

Circle (642) on Free Info Card

ESE

310-322-2136

ES-207A 1x4 Video DA

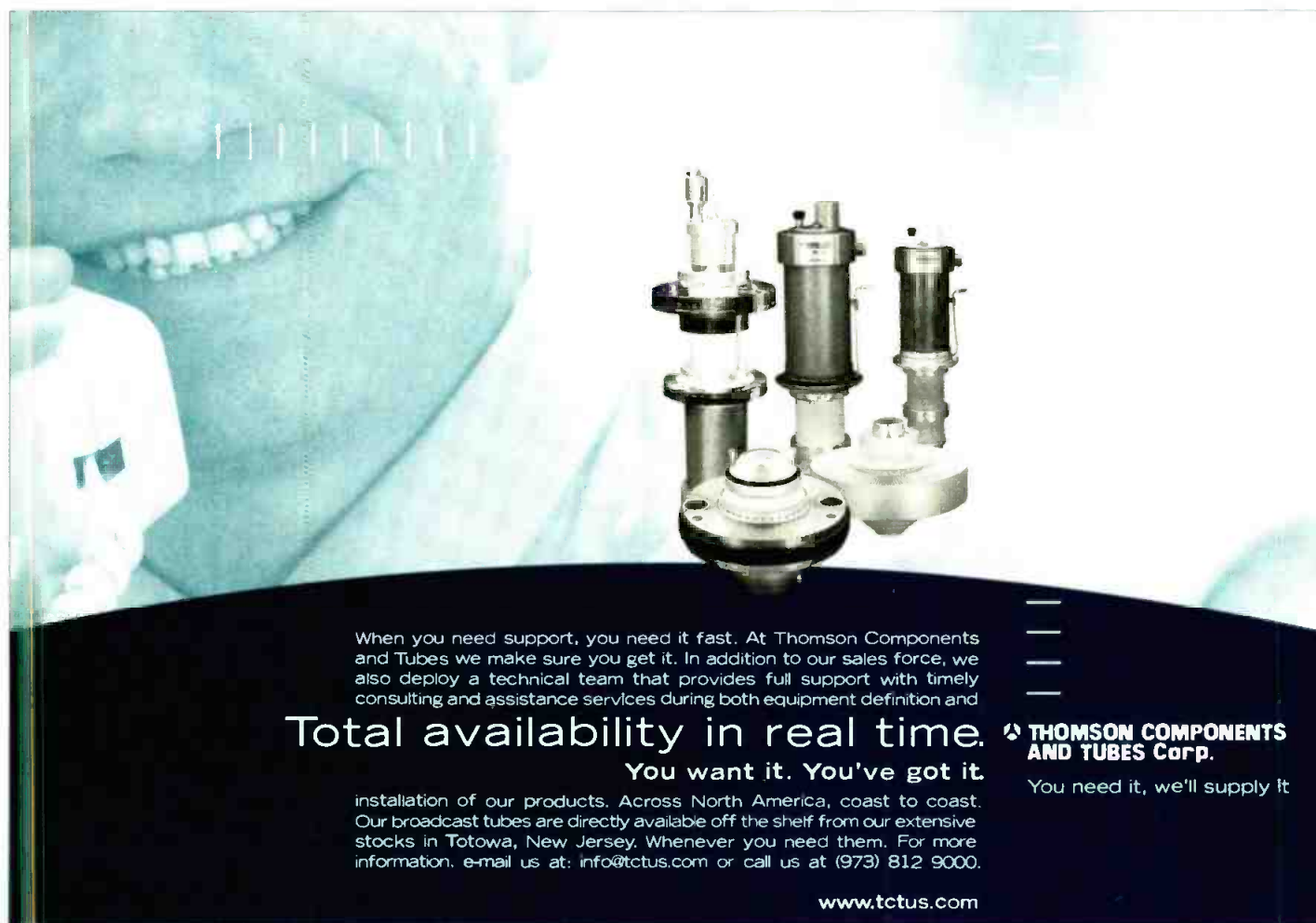
Circle (664) on Free Info Card

Evertz Microsystems Ltd

905-335-3700

* 7705EO-HD, 7705OE-HD

Circle (315) on Free Info Card



When you need support, you need it fast. At Thomson Components and Tubes we make sure you get it. In addition to our sales force, we also deploy a technical team that provides full support with timely consulting and assistance services during both equipment definition and

Total availability in real time.

You want it. You've got it.

installation of our products. Across North America, coast to coast. Our broadcast tubes are directly available off the shelf from our extensive stocks in Totowa, New Jersey. Whenever you need them. For more information, e-mail us at: info@tctus.com or call us at (973) 812 9000.

THOMSON COMPONENTS AND TUBES Corp.

You need it, we'll supply it

www.tctus.com

Circle (138) on Free Info Card

Extron Electronics

714-491-1500; 800-633-9876

* 128x120 series

Circle (302) on Free Info Card

* 6400 series

Circle (312) on Free Info Card

* CrossPoint 1616 series

Circle (350) on Free Info Card

P/2 DA PLUS series

Circle (734) on Free Info Card

FM Systems Inc

714-979-3355; 800-235-6960

* VFD571

* VM771



Screen Pro

Folsom Research

916-859-2500; 888-414-SCAN

ScreenPro

Circle (754) on Free Info Card

For-A Corporation of America

352-371-1505

* DCC-700

LDR-200

Grass Valley Group

800-547-8949; 800-824-5127

* MAX 9000

* Series 7000

Grass Valley 2000 & 8900

Grass Valley 7500 WB

Grass Valley Performer compact

Horita Co Inc

949-489-0240

VDA-50 Video DA

Hotronic Inc

408-378-3883

Proc Amp - High Performance Video Processor

Keywest Technology

913-492-4666; 800-331-2019

KW40/42

Circle (700) on Free Info Card

Knox Video

301-840-5805

Chameleon HB



Integrator

Leitch Incorporated

757-548-2300; 800-231-9673

* HD XPRESS

Circle (402) on Free Info Card

* Integrator

Circle (418) on Free Info Card

Lighthouse Digital Systems Inc

530-272-8240; 800-323-8289

* HDTV router

Circle (413) on Free Info Card

* SDI

Circle (468) on Free Info Card

MicroVideo Ltd

+44 1223 834

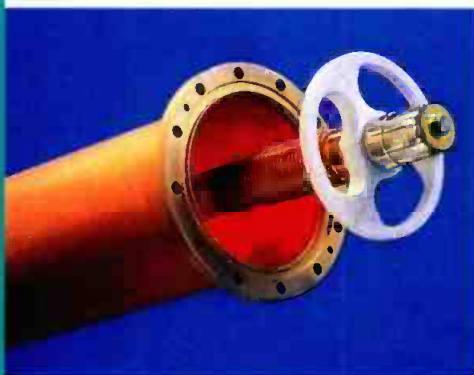
* PROC-S, -SB and REM-KNB

Proc Amp

The best rigid transmission line in the business Just Got Better

MACXLine® Rigid Coaxial Line

Broadcast Antenna Systems



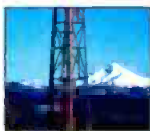
- Bellows eliminate sliding contacts
- 50% stronger outer conductor
- Advanced, patented technology

How do you improve on a "sixteen years without a failure" record? We did. Now the world's most reliable mechanical connection is protected by a stronger, easier to install outer conductor. MACXLine® protects your investment--eliminating the arcing that causes "bullet burnout."

With Andrew, there's a system for success.



Transmission Line Systems



Broadcast Antennas



STACKER™



Passive Power Products



Andrew Broadcast Systems • 1-800-DIAL-4-RF • www.andrew.com

Circle (139) on Free Info Card

Largest Selection of Transmission Lines

Broadcast Transmission Lines



Whatever your needs for broadcast transmission lines – thermally compensated, circular waveguide, or coaxial cable, Andrew can supply them.

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

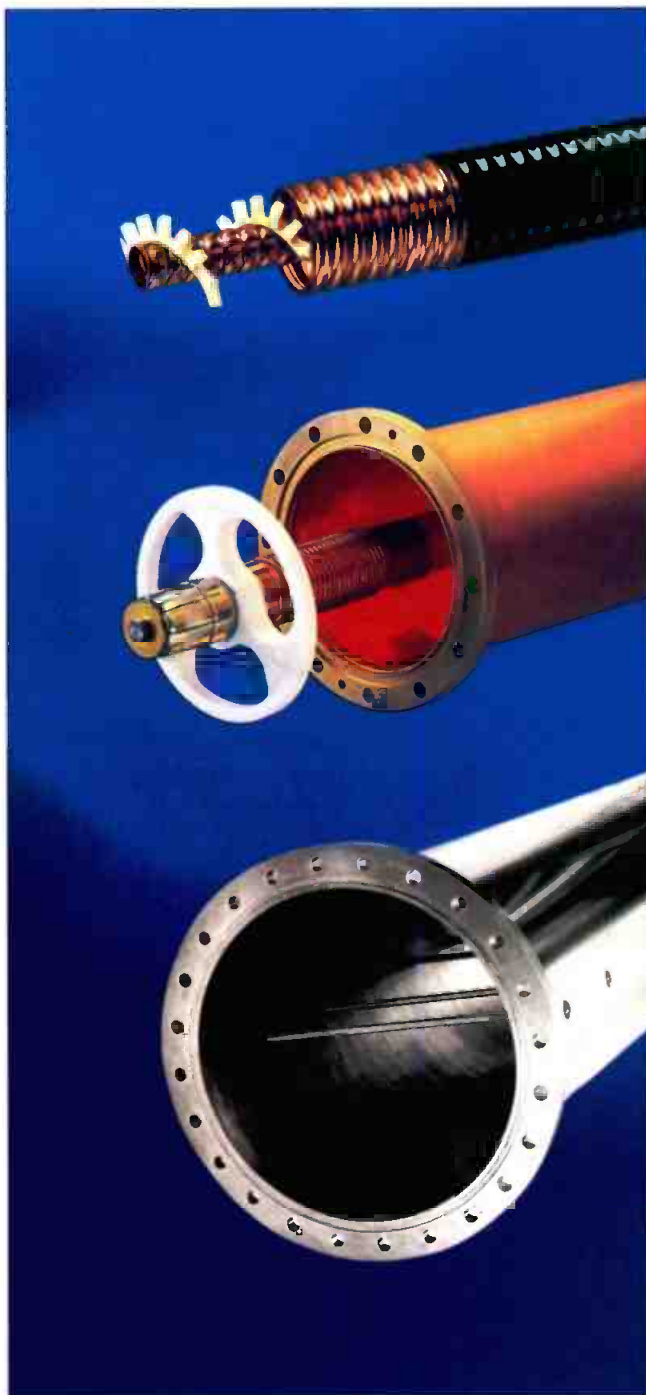
New WIDELine™ broadcast rigid transmission line offers good VSWR performance across the entire width of the UHF band. New DUALine™ rigid coaxial line is ideal for combining both DTV and NTSC signals for a single station into one line. Both are thermally compensated the same as MACXLine.

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

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

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

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



Broadcast Antenna Systems



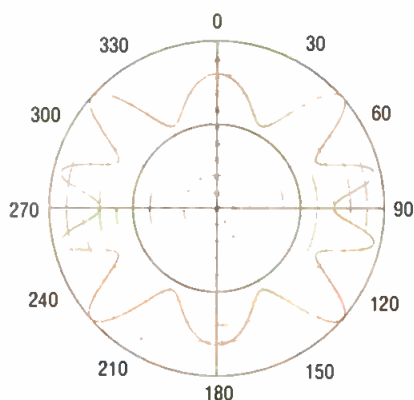
STACKER™ Optimized Antenna Structure for Television Broadcast Applications

The Best Products --

Broadcast Antenna Systems



Typical Azimuth Patterns



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

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

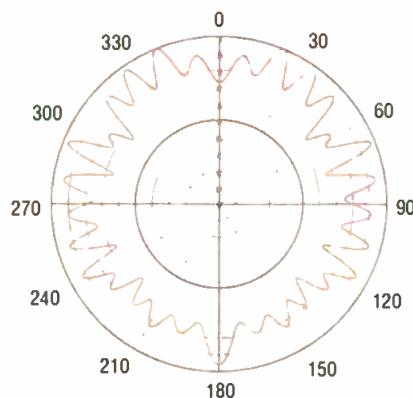
If the transmission line for the upper antenna is routed through the lower antenna, power handling and pattern control are compromised. This also complicates the mechanical design (and increases the cost) of the lower antenna.

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

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

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

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



Lower Antenna(s) of STACKER

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



1-800-DIAL-4-RF



ALP Series II Antennas

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

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

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

- Available for immediate implementation of DTV channels
- All CCIR bands IV/V channels available
- Lightweight/low wind load
 - Easy to install with less expense
 - Easier to lease tower space
- Radome enclosed for environmental protection
 - Long life
 - Low maintenance
 - Reliable
- Power ratings up to 28 kW (peak) available
- Customized patterns
 - Optimize coverage for your market area
- Wide selection of "off the shelf" patterns
 - Simplified application process
- Patterns measured at factory
 - Reliable performance in the field
 - Superior coverage
- Special designs available
 - Circular polarization (low and medium power)
 - Broadband versions available





Andrew Passive Power Products

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

Andrew also develops products for major OEMs to meet their stringent specifications. We maintain customer-specific designs and offer brand labeling on request.

For superior system performance and unmatched system reliability, specify Andrew Passive Power Products.

NEW!



Trinity™ Combiner/Mask Filter

Filters

- Low Pass (Harmonic)
- Band Pass (Intermodulation)
- High-Power, Coaxial, Dual-Mode

Combiners / Diplexers

- Power and Channel
- Waveguide and Coaxial
- Switchless
- Constant Impedance
- Starpoint
- Dual Aural

Transitions

- Waveguide to Coax

Loads

- Water Cooled
- Air Cooled
- Waveguide and Coaxial

Coaxial and Waveguide Components

Directional Couplers

- Waveguide and Coaxial
- Precision
- Adjustable

Patch Panels

Transfer Switches

- Waveguide and Coaxial
- Open Wire

Hybrids

- Waveguide and Coaxial
- 90°
- 180° (Magic Tee)

Andrew Broadcast Systems: Your System for Success

Tommorow's technology today.

Innovative, advanced-technology solutions that improve performance and save you money.

The options you need and the personalized service you want.

At Andrew, we're specialists in engineering custom solutions.

A history of service and leadership.

We've been in the broadcast business since the business began.

Complete RF path solutions.

You'll spend fewer engineering hours and dollars with Andrew. We can provide you with all components, from the transmitter to the beacon, all featuring a five- or ten-year systems solutions warranty.

Documented superior performance.

You'll get better system performance with Andrew, and we have the numbers to prove it!



1-800-DIAL-4-RF

www.andrew.com

Multidyne Video & Fiber Optic Systems

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

* DTV-200

Circle (373) on Free Info Card

VAGC-100 and VAGC-200

Circle (787) on Free Info Card

VDA8505

Circle (794) on Free Info Card



VikinX.32

Network Electronics US, Inc.

201-854-8418; 800-877-8273

PRO XL series of 32x32 routers

Circle (740) on Free Info Card

Omneon Video Network

408-585-5000

Opamp Labs Inc

323-934-3566

VA-16/ML8

VA-32



Tiger

PESA Switching Systems

631-845-5020; 800-328-1008

* 3500PLUS

Circle (306) on Free Info Card

* Bobcat

Circle (338) on Free Info Card

* Cougar

Circle (349) on Free Info Card

* Tiger

Circle (355) on Free Info Card

Philips Digital Video Systems

818-729-7700; 800-962-4287

* GS-400 Venus

* Venus

JupiterPlus

Venus 200i

Synergy

Ross Video Ltd

613-652-4886

RossGear

Circle (747) on Free Info Card

Sierra Video Systems

530-478-1000

* Manzanita Series

* Video & audio DAs

* Yosemite 64x64 to 128x128

Sigma Electronics

717-569-2681

* ADX

* DVD-2104

* DVS-1616

* Editing router

* Series 2100

Snell & Wilcox

408-260-1000

HD1132/HD1116 video routers

Circle (684) on Free Info Card

Sony Electronics

201-930-1000; 800-686-SONY

Complete line of video routing and distribution products

Circle (624) on Free Info Card

Tadiran Scopus - USA

858-618-1600

TecNec/Laird Telemedia

845-246-0428; 800-543-0909

Burbank series

Cable Stretcher

TeleCast Group AS

+47 33 44 72

* VD 2000

* VD 3000

Telemetry Inc

201-848-9818; 800-424-9626

* CP-ITV-VC3

55B-CA-PT

TV One Multimedia Solutions

859-282-7303; 800-721-4044

Splitter 525 PC Signal Splitter

Utah Scientific

801-524-9999

Utah-1500

Utah-200 DTV Ready

Utah-300 DTV Ready

Vela

727-507-5300

IDS

IDS compact router

Video Accessory Corp

303-443-4950; 800-821-0426

* SDI/DA-LT

EQVB/VDA-XL

LDVB/VDA-G

Videoframe Systems Inc.

530-477-2000

* Tally Mapper

* VTECSI, VTECS3, VTECS

VTECS 1 Control Panel / VTECS 3

Tadiran Scopus - USA

858-618-1600

VideoTek

610-327-2292; 800-800-5719

video servers

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

Accom

650-328-3818

* Abekas 6000

* APR Attache

* WSD/2Xtreme

WSD/HD Digital Disk Recorder

Adtec Incorporated

615-256-6619

Duet Ad Inserter

Soloist 2

AJA Video

530-274-2048; 800-251-4224

HD-NTV

Aston Electronic Designs

+44 1252 836

* Concept Clip

Audio Video Systems Ltd

661-251-6802

Sony, Panasonic, Tektron, etc.

Avid Technology

978-640-6789; 800-949-AVID

* HyperSPACE

Circle (414) on Free Info Card

* SPACE Shift HD

Circle (475) on Free Info Card

* VideoSPACE

Circle (517) on Free Info Card

AirSPACE HD Multi-STREAM

Circle (560) on Free Info Card

Chyron

631-845-2000; 888 4 CHYRON
Aprisa SSX

DNF Controls

818-252-0198
2044 includes ST420 & ST420
Circle (539) on Free Info Card
DMAT Sports Controller
Circle (635) on Free Info Card

Doremi Labs Inc

818-562-1101
*VI
*VI Server
*VI-HD100
*VI-MP2
*VIU

Fast Forward Video

949-852-8404
* Omega Deck DDR

FloriCal Systems Inc

352-372-8326
* Cacheplayer
AirBoss BT
Commercial insertion system

Grass Valley Group

800-547-8949; 800-824-5127
* Profile XP Media platform

Heuris

314-534-1514; 800-923-9232
MPEG Power Professional

Inscriber Technology

519-570-9111; 800-363-3400
E-Clips

JVC Professional Products Co

973-315-5000; 800-JVC-5825
* BR-D350
* BR-D40
* BR-D51
* BR-D750U
* BR-D92 and BR-D52
* BR-DV10
* SR-W5U W-V5U



TSS-100A

KTech Telecommunications, Inc.

818-361-2248
* TSS-100A
Circle (500) on Free Info Card

Leitch Incorporated

757-548-2300; 800-231-9673
* VR440
Circle (523) on Free Info Card
VR420
Circle (801) on Free Info Card

LEL Computer Systems

561-347-2242

Odetics

714-774-2200
* TCS Series

Omneon Video Network

408-585-5000
* Omneon Video Area Network
Circle (450) on Free Info Card
* Video Area Network
Circle (516) on Free Info Card

Panasonic Broadcast

323-436-3500; 800-528-8601
* AJ-D580 D-5 VTR/AJ-HDP500 HD processor combination
* AJ-D950 DVCPRO50 studio editing VCR
AJ-D780 4x transfer DVCPRO VCR
AJ-D90 DVCPRO50 Dockable VCR

Philips Digital Video Systems

818-729-7700; 800-962-4287
* Media Pool

Pinnacle Systems

650-526-1600
* iThunder
* MCS 2000
* Thunder MCS 4000

Pixel Power Ltd

+44 1223 721
* Clarity HD

Play Incorporated

916-851-0800; 800-306-PLAY
Trinity

Prime Image Inc

408-867-6519
Time Machine

Quantel

203-656-3100; 800-218-0051
* Inspiration
* Picturebox
Clipbox Power
Clipbox Studio

Rorke Data Inc

612-829-0300; 800-328-8147
Maxxarray Disk Array
VMOD-100 Digital Recorder

SeaChange International

978-897-0100
* Broadcast MediaServer
* Broadcast MediaCluster
* ITV system
SPOT

Sencore Electronics

605-339-0100; 800-SENCORE
HDTV996

Sierra Design Labs

775-886-5050; 800-400-8002
* HD 1.5 Plus
* HD 360/HD 270
* HD270

SGI (Silicon Graphics)

650-960-1980; 800-800-7441
DVCPRO server
Circle (654) on Free Info Card
Streamcaster
Circle (770) on Free Info Card

Sony Electronics

201-930-1000; 800-686-SONY
* BetacamSX Line of VTRs
Circle (335) on Free Info Card
* Digital Betacam Line of VTRs
Circle (360) on Free Info Card
* HDCAM, Digital Betacam, Betacam SX and DVCAM
Circle (408) on Free Info Card
* MAV-70
Circle (442) on Free Info Card
DNW-A100
Circle (637) on Free Info Card

Color indicates advertisers

* DTV/HDTV ready products

SYNERGY 1

DIGITAL PRODUCTION SWITCHER



SYNERGY 1
DIGITAL
PRODUCTION
SWITCHER

Synergy 1
Control Panel
+
Synergy 1 Frame

Synergy 1 Digital Performance Available with Your Choice of Control Panel

Until now, exciting features like "Aspectizers" dual aspect ratio converters & "Squeeze & Tease" 2D DVEs were only available on the award winning Ross Synergy Series line of big digital switchers.

Now you can have these Synergy type features and more on the new compact Synergy 1, a 16 input single MLE digital switcher, the new RVS 210D and 216D digital versions of the popular RVS 210A/216A analog switchers, and... even your GVG* 100 and 110 production switcher.

That's right, you can now upgrade your GVG* 100/110 to digital Synergy power by simply replacing your GVG* frame with a new Synergy 1 digital frame

Go ahead, say it ...Cool!

RVS 216D
DIGITAL PRODUCTION
SWITCHER



RVS 216
Control Panel
+
Synergy 1 Frame

RVS 210D
DIGITAL PRODUCTION
SWITCHER



RVS 210
Control Panel
+
Synergy 1 Frame

DIGITAL
GVG* 100/110
UPGRADE TO DIGITAL



GVG 100/110
Control Panel
+
Synergy 1 Frame



Switchers, Keyers,
& Terminal Gear

*GVG is a trademark of Grass Valley Group.
Ross and Synergy are trademarks of Ross Video Limited.
Ross Video is an independent company and is not affiliated with GVG in any way.

Tel: (613) 652-4886

Fax: (613) 652-4425

www.rossvideo.com

www.americanradiohistory.com

Circle (118) on Free Info Card

Email: solutions@rossvideo.com

Spencer Technologies

818-771-1850

* Breakstore

Storage Concepts Inc

949-852-8511; 800-525-9217

Fibre Space-2000

FibreBlock

Telestream

530-470-1300; 877-CLPMail

ClipExpress ClipMail Pro

TeraNex

407-517-1086

Thomson Broadcast

201-569-1650; 800-882-1824

* Nextore

Vela

727-507-5300

* Rapid Access

Vibrant Technologies

781-275-4088; 877-842-7468

* FeedClip

* Mpression MPEG 4:2:2 production video server

Videomedia Inc

408-227-9977

2XS

wire & cable

Includes: Audio cable; Audio connectors; Fiber optic cabling; Modular frame systems; Video cable; Video connectors

ATI-Audio Technologies, Inc.

215-443-0330; 800-959-0307

* DMM100, DMM100-BAT

Audio Accessories Inc

603-446-3335

Edac connectors

Belden Electronics Division

765-983-5200; 800-BELDEN

* Brilliance

Brilliance Plenum Rated High Definition Coax

Brilliance Video Snake Cables

Integrity

Trunk, Breakout and Interconnect Cables

Bi-Tronics Inc

914-592-1800; 800-666-0996

* Audio Cables & Assemblies

* Video Cable & Cable Assemblies

* Video Connectors

CANARE

818-365-2446

* 75 Ohm BNC connectors

* L-CFB HD-SDI series

* RCA 1/4" plugs

* Star Quad

Clark Wire & Cable

847-949-9944; 800-222-5348

* Line of cables

* Line of connectors

* Serial digital RGB

CommScope

828-324-2200; 800-982-1708

* Quantum

7538 digital coax cable

Coaxial and optical cables

Evertz Microsystems Ltd

905-335-3700

* Multi-frame 7700FR

Circle (445) on Free Info Card

Extron Electronics

714-491-1500; 800-633-9876

SuperFlex Cable

Circle (774) on Free Info Card



VHD-7000

Gepco International

847-795-9555; 800-966-0069

* 5524TS

Circle (310) on Free Info Card

* 5596 EZ and 5596M

Circle (311) on Free Info Card

* D5524EZ

Circle (353) on Free Info Card



Modular II

Lighthouse Digital Systems Inc

530-272-8240; 800-323-8289

Modular II

Circle (718) on Free Info Card

Mohawk/CDT

978-537-9961; 800-422-9961

* Audio Connectors

* Tactical Fiber Optic Cable

* Video cable

* Video Connectors

Nemal Electronics Int'l

305-899-0900; 800-522-2253

* 1835F flexible 3/8" UL approved triax

* 3/8 inch triax

Neutrik USA Inc

732-901-9488

BNC connectors

Connector products

Switchcraft Inc

773-792-2700

* VJ series

TASCAM

323-726-0303

Telecast Fiber Systems

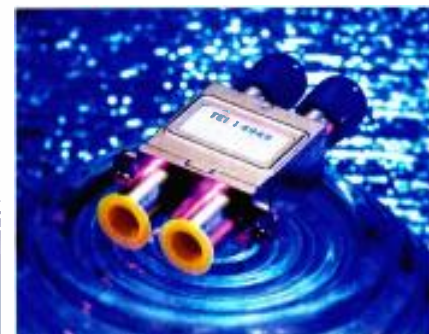
508-754-4858

* Python

Circle (461) on Free Info Card

* TAC-4

Circle (485) on Free Info Card



J314W

Trompeter Electronics Inc

818-707-2020; 800-982-2629

* 3 GHz BNC connectors, 75 ohm

Circle (305) on Free Info Card

* BNC

Circle (336) on Free Info Card

VideoTek

610-327-2292; 800-800-5719

UNIFRAME

Circle (785) on Free Info Card



Our experience
spans more than 65 years,
and our engineering still
makes it simple.

Plug it in!

Ask anyone and they'll tell you the same thing. The **K2 Digital IOT** sets the standard by which other IOTs are made. Why? It's simple. Years of experience have produced the best IOT. Our unique, field-proven design features simple, user-friendly tuning right on the front of the subsystem. Engineered for long life and broadcasting's highest efficiency, you don't even have to disconnect the power or cooling water to replace it. Sure we're an Emmy winner for technical achievement. But we've kept our focus on engineering the simplest and most reliable tools in the industry—so you can focus on the more important things in life. Plug it in!



A Division of
Communications
& Power Industries

301 Industrial Road
San Carlos, CA 94070

tel 650.592.1221

fax 650.592.7988

email iot@eimac.com www.eimac.com

www.eimac.com



ISO 9001 Certified • Made in USA

Circle (141) on Free Info Card
www.americanradiohistory.com

2net FX www.2netFX.com
 3 Point Digital www.3pd.com
 360 Systems www.360systems.com
 615 Music Library www.615music.com
 A&J Cases www.ajcases.com
 A.F. Associates, Inc. www.afassoc.com
 AAP Inc. www.AAP.com
 Ac-cetera Inc. www.ac-cetera.com
 Accom www.accom.com
 AccuWeather Inc. www.accuweather.com
 Acoustical Solutions www.acousticalsolutions.com
 Acrodyne Industries www.acrodyne.com
 Acterna www.mpeg.Acterna.com
 Adamation www.adamation.com
ADC Broadcast Systems Division www.adc.com/broadcast
 ADC/Nvision www.adc.com/Broadcast
 Adobe Systems www.adobe.com
 Adrienne Electronics Corp. www.adrielec.com
 Adtec Inc. www.adtecinc.com
 Advanced Broadcast Systems Inc. www.abs-tv.com
 Advanced Designs Corp. www.doprad.com
 Advanced Digital Information Corp. www.adic.com
 Advanced Rendering Technology www.art-render.com
 AETA Audio Corp. www.aetausa.com
 AFA Products Group www.afassoc.com
 Agilevision www.agilevision.com
 Airstar Space Lighting www.airstar-light.com
 AIST Inc. www.aist.com
AJA Video www.aja.com
 AKAI Musical Instrument Corp. www.akaipro.com
 AKG Acoustics US www.akg-acoustics.com
 Alan Gordon Enterprises Inc. www.alangordon.com
 Alcatel USA www.usa.alcatel.com/telecom/access/wireless
 Alcorn McBride Inc. www.alcorn.com
 Alex Temex Multimedia www.alex.com
 Alias\Wavefront www.waveframe.com
 Allen Osborne Associates www.aoa-qps.com
 Allied Tower Company www.alliedtower.com
 Alpha Wire Company www.alphawire.com
 Altinex, Inc. www.altinex.com
 AMCO Engineering Co www.amcoengineering.com
 AMEK US Operations Inc. www.amek.com
 AMS Neve www.ams-neve.com
 Analog Way www.analogway.com
Andrew Corp. www.andrew.com
 Angenieux www.angenieux.com
 Antenna ID Products www.Antennaid.com
 Antex Electronics www.antex.com

Anthro Corp. www.anthro.com
 Anton/Bauer www.antonbauer.com
 Anvil Cases www.anvilcase.com
 Aphex Systems www.aphex.com
 Applied Digital Technology www.applied-digital.com
 Applied Magic www.applied-magic.com
 Applied Research & Technology www.artproaudio.com
 APW Zero Cases www.zerocases.com
 Arcatron Inc. www.arcatron.com
 Armstrong Transmitter .. www.armstrongtx.com
 Arrakis Systems www.arrakis-systems.com
 Ashly Audio www.ashly.com
 Aspen Electronics www.aspenelectronics.com
 Aston Electronic Designs www.astondes.com
Astro Systems www.astro-systems.com
 ATI-Audio Technologies, Inc. www.atiguys.com
 Atlantic Satellite Communications Inc. www.atlsat.com
 Audemat Inc. www.audemat.com
 Audio Accessories Inc. www.patchbays.com
 Audio Intervisual Design www.gmlinc.com
 Audio Precision www.audioprecision.com
 Audio Processing Technology Ltd www.aptx.com
 Audio Toys www.audiotoys.com
 Audio Video Systems Ltd www.usedvideo.net
 Audiolab Electronics Inc. www.audiolabelectronics.com
Audio-Technica US Inc. www.audio-technica.com
 Aura Systems www.aurasystems.com
 AutoPatch www.autopatch.com
 AVCOM of Virginia Inc. www.avcomofva.com
 Avica www.avicatech.com
Avid Technology www.avid.com
 Avtek Systems www.psdigital.com
 Axon Digital Design BV www.axon.nl
 Azden Corp. www.azdencorp.com
 Aztec Radiomedia - America www.aztec-radiomedia.com
B&H Photo www.bhphotovideo.com
 B+K Precision www.bkprecision.com
 BAF Communications Corp. www.bafcom.com
BARCONET www.barconet.com
 Baron Services www.baronservices.com
 BDL Autoscript www.bdlautoscript.com
 Belar Electronics Lab Inc. www.belar.com
 Belden Electronics Division www.belden.com
 Bencher Inc. www.bencher.com
Benchmark Media Systems www.benchmarkmedia.com
 Bernclaire Multimedia www.bernclaire.com
 Bexel www.bexel.com
 Bext Inc. www.bext.com
 Beyerdynamic www.beyerdynamic.com

Bi-Tronics Inc. www.bi-tronics.com
 Boeckeler Instruments www.pointmaker.com
Bogen Photo Corp. www.bogenphoto.com
 Boland Communications www.bolandcom.com
 Bomar Interconnect Products Inc. www.bomarinterconnect.com
 Boris FX/Artel Software Inc. www.BorisFX.com
 Boulder Instruments www.boulderinstruments.com
 BOXX Technologies, Inc. www.boxxtech.com
 Bradley Broadcast Sales Inc. www.bradleybroadcast.com
 Brightline www.brightlines.com
 Broadband Innovations www.broadbandinnovations.com
 Broadcast Electronics Inc. www.bdcast.com
Broadcast Microwave Services www.bms-inc.com
 Broadcast Software International www.bsiusa.com
 Broadcast Store www.broadcaststore.com
 Broadcast Store (BCS) www.broadcaststore.com
 Broadcast Technology www.broadcasttech.com
Broadcast Video Systems www.bvs.on.ca
 BSW-Broadcast Supply Worldwide www.bswusa.com
 BUF Technology www.buftek.com
 Buhl Industries www.buhl-ind.com
 Burk Technology Inc. www.burk.com
 Burlington A/V Recording Media Inc. www.burlington-av.com
 Burst Electronics Inc. www.burstelectronics.com
 Caligari www.caligari.com
Calrec Audio Ltd www.calrec.com
 Camera Support International (CSI) www.csitripods.com
 Camplex Corp. www.campex.com
 Canal + Technologies www.canalplus-technologies.com
 CANARE www.canare.com
 Canon Broadcast www.canonbroadcast.com
 Canopus www.justedit.com
 Canto www.canto.com
 CaptionMax www.captionmax.com
 Carlson www.carlsonolutions.com
 Carpel Video www.carpelvideo.com
 Cartoni USA www.cartoni.com
 Cartworks/dbm Systems www.cartworks.com
 Cases Plus Inc. www.casesplus.com
 Cayman Graphics www.CaymanGraphics.com
 CBT Systems www.cbt-net.com
 Central Tower Inc. www.centrtower.com
 Century Precision Optics www.centuryoptics.com
 CGI/Callaway Graphic Software LLC www.cgsautomation.com
 Chatani (USA) Inc. www.chatani.com

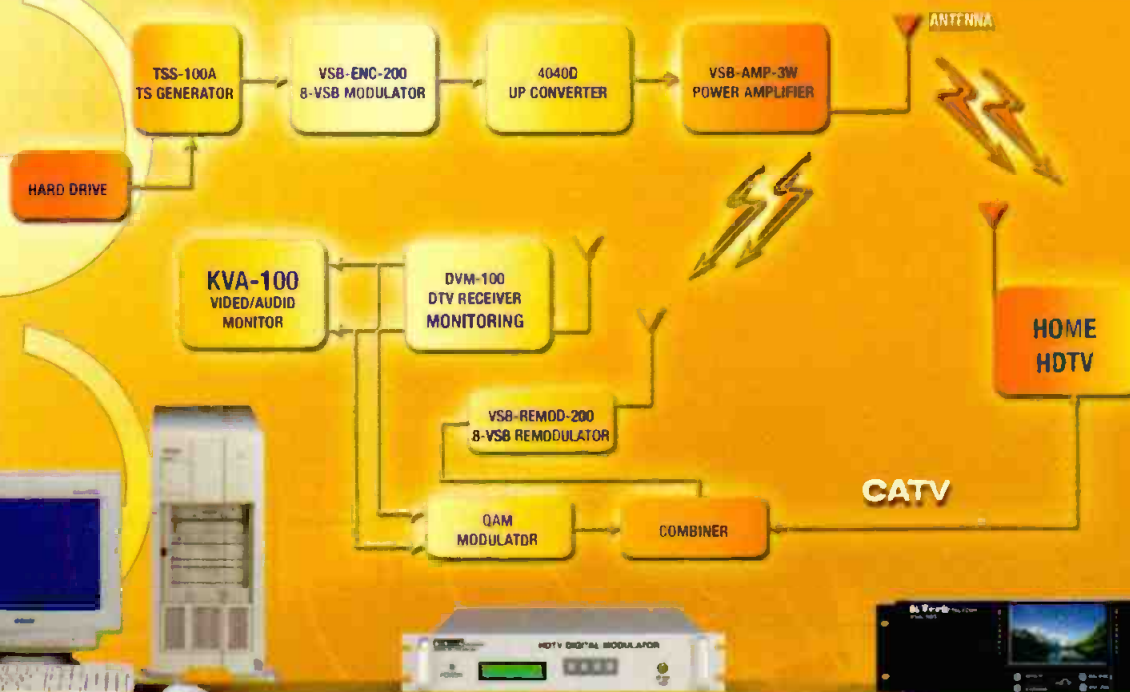
KTech

TELECOMMUNICATIONS, INC.

Leading Excellence in DTV Broadcast Engineering Technologies

Video Server • 8-VSB DTV Modulator

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



Video Server MPEG2 Generator/Recorder

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

8-VSB Modulator

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

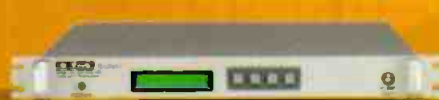
Video Audio Monitor

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



8-VSB Reference Receiver

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



8-VSB Frequency Translator

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



8-VSB DTV Translator

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

KTech

TELECOM

DTV BROADCAST PRODUCTS

15501 San Fernando Mission Blvd. • Ste 100 • Mission Hills, CA 91345

Phone (818) 361-2248 • Fax (818) 270-2010

e-mail: sales@ktechtelecom.com • web: www.ktechtelecom.com

Circle (129) on Free Info Card
www.americanradiohistory.com

Chief Manufacturing Inc. www.chiefmfg.com
 Chimera www.chimeralighting.com
 Christie Digital Systems Inc. www.christiedigital.com
 Chyron www.chyron.com
 Cinemills Corp. www.cinemills.com
 Ciprico Inc. www.ciprico.com
 Circuitwerkes www.circuitwerkes.com
CJDS DAL www.CJDS.com
 Clarity Visual Systems www.clarityvisual.com
 Clark Wire & Cable www.clarkwc.com
 Clear-Com Systems www.clearcom.com
 Coaxial Dynamics www.coaxial.com
 Cobalt Digital Inc. www.cobaltdigital.com
 Coherent Communications Inc. www.cocom.com
 Colossalvision www.colossalvision.com
 CommScope www.commscope.com
 Communications Engineering Inc. (CEI) www.commeng.com
 Compaq Computer Corp. www.compaq.com
 Compix Media www.compixmedia.com
 Comprehensive Video Group www.compvideo.com
 Comprompter www.enrnews.com
 Computer Engineering Associates Inc. www.ceanews.com
 Computer Engineering Inc. www.tv-automation.com
 Computer Modules Inc. www.compumodules.com
 Comrex Corp. www.comrex.com
 Comtech Antenna Systems Inc. www.comtechsystems.com
 COMTEK Inc. www.comtek.com
 Consumer Electronics Association (CEMA) www.CHVweb.org
 ConTempo Music Library www.contempomusic.com
 Control Concepts Corp./Liebert www.control-concepts.com
 Cool-Lux www.cool-lux.com
 Cooper Sound Systems Inc. www.coopersound.com
 Coptervision www.coptervision.com
 Core MicroSystems www.coremicro.com
 CPC/Computer Prompting & Captioning Co www.cpcweb.com
 CPI Canada Inc. www.cpii.com
CPI Eimac Division www.eimac.com
 CPI Satcom Division www.cpii.com/satcom
 Crane Song Ltd www.cranesong.com
 Crestron www.crestron.com
 Crispin Corp. www.crispincorp.com
 Crouse-Kimzey www.proaudio.com
 Crystal Computer Corp. www.crystalcc.com
 Crystal Group Inc. www.crystalpc.com

CSS Music / Creative Support Services www.cssmusic.com
 CTX International www.ctxintl.com
 D.Co Marketing Inc. www.d-co.com
 Daily Electronics Corp. www.worldaccessnet.com/~daily/daily.htm/
 Dalet Digital Media Systems www.dalet.com
 Dan Dugan Sound Design www.dandugan.com
 Dataworld Inc. www.dataworld.com
 Davicom Technologies www.davicom.com
 DawnCo www.Dawnco.com
 De Sisti Lighting www.desisti.it
 Dedotec USA Inc. www.dedolight.com
 Denon Electronics www.del.denon.com
 Desktop Images www.desktopimages.com
 DH Satellite www.dhsatellite.com
 Dialight www.dialight.com
 Dielectric Communications . www.dielectric.com
 DigiEffects www.digieffects.com
 Digigram www.digigram.com
 Digimation www.digimation.com
 DigiTAG www.digitag.org
 Digital Audio Research Ltd www.dar.uk.com
 Digital Images www.di2.com
 Digital Island www.digisle.net
 Digital Marketing International www.dmi-njusa.com
 Digital Vision Inc. www.digitalvision.se
 Directed Perception www.DPerception.com
 Discount Video Warehouse www.dvonline.com
Discreet Logic www.discreet.com
 DK-Audio A/S www.dk-audio.com
DNF Controls www.dnfcontrols.com
 Dolby Laboratories Inc. www.dolby.com
 Doremi Labs Inc. www.doremilabs.com
 Dorrough Electronic www.dorrough.com
 DPA Microphones www.dpamicrophones.com
DPS Digital Processing System www.dps.com
 DSC Labs www.dsclabs.com
 DST - Digital System Technology Inc. www.dstech.com
 Dukane www.dukane.com
 DVC Digitalvideo Computing GmbH www.digitalvideo.de
 DW ElectroChemicals Ltd www.stabilant.com
 Dwight Cavendish Developments LTD. www.dwightcav.com
 Dynamic Graphics www.dgusa.com
 DynaPIX Wireless Video www.dynapix.com
 Eagle Communications Inc. www.eaglecomm.com
 EASI-Efficient Antenna Systems Inc. www.easisat.com
 EASI-SET www.easi-set.com
 EchoStar www.echostar.com
 Econco Inc. www.econco.com

Eddor Electronics www.edcorusa.com
 Editing Technologies Corp. www.etcedit.com
 Editware www.editware.com
 EDX Engineering Inc. www.edx.com
 EEG Enterprises Inc. www.eegent.com
 Egriment www.egriment.com
 Electronic Systems Integration www.esi-inc.com
 Electrophysics Corp. www.electrophysics.com
 Electrorack Products Co www.electrorack.com
 Electrosonic Systems Inc. www.electrosonic.com
 Elmo Mfg Corp. www.elmo-corp.com
 EMC Corp. www.emc.com
EMCEE Broadcast Products www.emceebird.com
 EME Communications www.emecom.com
 ENCO Systems www.enco.com
 Encoda Systems www.encodasystems.com
 E-N-G Mobile Systems Inc. www.e-n-g.com
 Ensemble Designs www.ensembledesigns.com
 Enseo www.enseo.com
 Equi-Tech Corp. www.equitech.com
 Ergo 2000 www.ergoind.com
 ERI-Electronics Research www.ERInc.com
ESE www.es-web.com
 e-Studio LIVE (formerly EchoLabs) www.e-studiolive.com
 Eurologic www.eurologic.com
Evertz Microsystems Ltd www.evertz.com
 Excalibur Technologies www.excalib.com
Extron Electronics www.extron.com
 Face 2 Face www.f2f-inc.com
 Fairlight USA www.fairlightesp.com.au
 Faroudja www.faroudja.com
 Fast Forward Video www.ffv.com
 FAST Multimedia www.fastsalesus.com
 Film & Video Stock Shots www.stockshots.com
 Fischer Connectors www.fischerconnectors.com
 Fischer Panda Generators Inc. www.fischerpanda.com
 FloriCal Systems Inc. www.florical.com
 FM Systems Inc. www.fmsystems-inc.com
Folsom Research www.folsom.com
 FoNet Inc. www.firstlook.net
 For-A Corp. of America www.for-a.co.jp
 Force Inc. www.forceinc.com
Forecast Consoles Inc. www.forecast-consoles.com
 Fortel DTV www.fortelDTV.com
 Frezzi Energy Systems www.frezzi.com
 Frontier Design Group www.frontierdesign.com
 Frontline Communications www.frontlinecomm.com
Fujinon Broadcast & Communications Products Div www.fujinon.com
 Full Compass Systems Ltd www.compassxpress.com

87x

More than just a higher number

Introducing the ultimate zoom lens for sports . . .

the Fujinon 87x. Not only has it outdistanced the competition in every category, but it offers something unprecedented in the broadcast industry . . . **A CHOICE.**

The 87x is available in 2 configurations, the XA87x9.3 and the XA87x13.2 (which delivers a previously unheard of 2300mm focal length).

Our Image Stabilizer, which eliminates unwanted movement at full telephoto, is available as an internal option or as a stand-alone device, compatible with all of Fujinon's latest field lenses.

The Fujinon 87x joins a family of all digital HD lenses offering



the most advanced optics that

provide images of unparalleled

crispness and brightness. These

lenses set the standard with

DIGIPOWER features including

32-bit RISC processor in the lens

one CPU in each servo demand, optical

encoders, high-speed serial communication and 13-bit accuracy

in zoom and focus control. QuickZoom, two-shot preset, advanced back

focus, F number limit, computer diagnostics and Fujinon's exclusive

anti-fogging are just a few of the features our customers depend on

The longest focal length, most advanced optics, Fujinon's

reliability, support and service all combine to make the 87x more than

just a higher number.

IT'S YOUR CHOICE

	Fujinon's XA87x9.3ESM	Fujinon's XA87x13.2ESM
Zoom Ratio	87x	87x
Focal Length Range	9.3-810mm	13.2-1150mm
With Extender	18.6-1620mm	26.4-2300mm
Image Stabilizer	Internal or external	Internal or external
Anti Fogging	Standard	Standard

FUJINON

Broadcast and Communications Products Division

FUJINON INC. 10 High Point Dr., Wayne NJ 07470-7434 Phone: (973) 633-5600, FAX: (973) 633-5216
FUJINON PHOTO OPTICAL CO., LTD. 1-324 Uetake, Omiya City, Saitama 330 Japan, Phone: 048-668-2152

www.fujinon.com

Circle (143) on Free Info Card

DIGIPOWER

FUJINON

HD

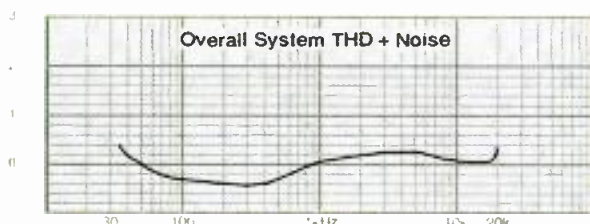
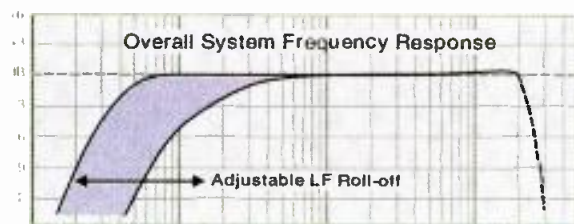
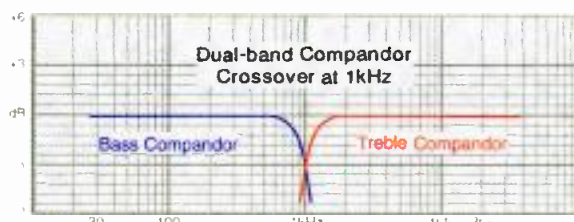
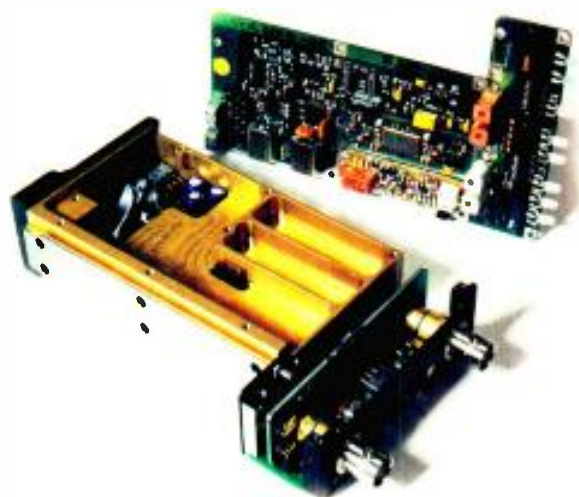
DIGITAL

Furman Sound www.furmansound.com
Gabriel Electronics Inc. www.gabrielnet.com
Gage Applied Sciences Inc. www.gage-applied.com
GAMPRODUCTS www.gamonline.com
Garner www.garnerindustries.com
Gefen Inc. www.gefen.com
Gene Michael Productions www.genemichaelproductions.com
Genelec Oy www.genelec.com
General Video Corp. (GVC) www.gvcusa.com
Gennum Corp. www.gennum.com
Gentner Communications Corp. www.gentner.com
Gepco International www.gepco.com
Getris Images www.getris.com
GFRC Shelters www.gfrc.com
Glidecam Industries Inc. www.glidecam.com
Global Communications Solutions www.globalcoms.com
Global Media Resource Inc. www.globalmediasource.com
Global Microwave Systems www.gmsinc.com
Global Telemann Systems, Inc. www.telemann.com
GMPCS Personal Communications, Inc. www.gmpcs-us.com
Gorman-Redlich Mfg Co www.gorman-redlich.com
Grass Valley Group www.grassvalleygroup.com
Grass Valley Telecom www.gvtelecom.com
GYRON Systems www.gyron.com
H L Dalis Inc. www.werbroadcast.com
Hafler Professional www.hafler.com
Hamlet Video International Ltd www.hamlet.co.uk
Hannay Reels www.hannay.com
Harmonic (formerly Divicom) www.divi.com
Harmonic Inc. www.harmonicinc.com
Harris Corp., Broadcast Communications Div. www.harris.com
Harrison by GLW www.glw.com
Henry Engineering www.henryeng.com
Herman Electronics www.hermanelectronics.com
Heuris www.heuris.com
High End Systems www.highend.com
Hitachi America LTD www.hitachi.com/lcd
Hitachi Denshi America Ltd www.hdal.com
Hitachi Software www.hitachi-soft.com
Hi-Tech Enterprises Inc. www.videoequipment.com
Holaday Industries Inc. www.holadayinc.com
Hoodman Corp. www.hoodmanusa.com
Horita Co Inc. www.horita.com
Hosa Technology www.hosatech.com
Hotronic Inc. www.hotronics.com
I/O Partners www.iopartners.com

IBIS Ltd. www.ibistv.co.uk
IBUS/Phoenix www.ibus.com
IDB Systems www.idbsystems.com
IDX Technology/IKON Video www.idxtek.com
Ikegami Electronics (USA) Inc. ... www.ikegami.com
illbruck/Sonex Acoustical Div www.illbruck-sonex.com
Illumination Technologies www.illuminationtech.com
Image Logic Corp. www.imagelogic.com
Image Video www.imagevideo.com
Imagine Products Inc. www.imagineproducts.com
ImaginOn, Inc. www.imon.com
IMMAD ECVS www.immad.com
in:sync www.in-sync.com
Independent Audio/Sonifex www.independentaudio.com
Industrial Acoustics Co www.industrialacoustics.com
iNews (formerly Avstar) www.inewsroom.com
InnovaCom www.transpeg.com
Innovision Optics www.innovision-optics.com
Inscriber Technology www.inscriber.com
Insync Communications www.insync-pr.com
INTEC America www.inteca.com
Intelligent Media, Inc. www.intelligentmedia.com
Intelvideo Inc. www.intelvideo.com
IRDETO ACCESS www.irdetoaccess.com
IRT Electronics Pty Ltd. www.irtellectronics.com
Itelco USA Inc. www.itelco-usa.com
ITIS - Innovation Telecommunications
Image Son www.itis.fr
J.B. Engineering Inc. www.jbeng.com
JK Audio www.jkaudio.com
JL Cooper Electronics www.jlcooper.com
JMR Electronics Inc. www.jmr.com
JNS Company www.ezfx.com
Joemeek www.joemeek.com
JVC Information Products www.jvc.info.com
JVC Professional Products Co www.jvc.com/pro
K & H Products Ltd. www.portabrace.com
K5600 Inc. www.k5600.com
Kathrein Inc., Scala Division www.scala.net
KD Kanopy Inc. www.kdkanopy.com
Kencast www.kencast.com
Keops Broadcast www.keopsbroadcast.com
Keywest Technology www.keywesttechnology.com
Kino Flo Inc. www.kinoflo.com
Klotz Digital America www.klotzdigital.com
Knights Communications www.kci-dfw.com
Knox Video www.knoxvideo.com
KTech Telecommunications, Inc. www.ktechtelecom.com

L Matthew Miller Associates Ltd www.millervideo.com
L.T.M. Corp. of America www.ltmlighting.com
LARCAN Inc. www.larcan.com
Leapfrog Productions www.ccaption.com
Leader Instruments www.leaderusa.com
LeBLANC Broadcast www.leblanc-group.com
Lectrosonics Inc. www.lectrosonics.com
Lee Filters www.leefiltersusa.com
Leitch Inc. www.leitch.com
LEL Computer Systems www.lelcs.com
Lerro Corp. www.lerro.com
Lighthouse Digital Systems Inc. www.lighthousedigital.com
Lightning Prevention Systems ... www.lpsnet.com
LightTech Group Inc. www.lighttech.com
Link Electronics Inc. www.linkelectronics.com
Linux SC www.linuxsc.com
Litton Electron Devices www.littonedd.com
Litton Life Support www.littonls.com
Location Sound Corp. www.locationsound.com
Logitek www.logitekaudio.com
Lowel Light Mfg www.lowel.com
Lucent Technologies www.lucent.com
Lucid Technology www.lucidaudio.com
Mackie Designs Inc. www.mackie.com
Magix Entertainment www.magix.net
Magni Systems www.magnisystems.com
Magnum Towers Inc. www.magnumtowers.com
Manhattan Production Music www.mppmusic.com
Marco Inc. www.marcoconsoles.com
Marconi Applied Technologies www.marconitech.com
Martinsound, Inc. www.martinsound.com
MATCO Inc. www.matco-video.com
Mathematical Technologies Inc./PVP www.pyppurbank.com
Matrox www.matrox.com/video
Maxell Corp. of America www.maxellpromedia.com
Maxoptix www.maxoptix.com
Maycom Automation Systems www.maycom.nl
MCL Inc. www.mcl.com
Medea Corp. www.medeacorp.com
Media 100 www.media100.com
Media Concepts www.mediaconceptsinc.com
Media Products Inc. www.mpi-itec.com
MediaFORM www.mediaform.com
MediaSite Inc. www.mediasite.net
MediaTouch Systems Inc. www.mediatouch.net
Megatrax Production Music www.megatrax.com
Micro Communications www.mcibroadcast.com
Microspace Communications Corp. www.microspace.com

A few solid concepts. One great wireless.



The world of high-end video production is an extremely demanding environment for wireless microphone systems. There are simply no excuses for RF problems or poor audio quality. It takes a rock-solid RF link, outstanding audio quality and a rugged mechanical package to meet the challenge. Meet the outstanding UCR210D wireless receiver. A work of art built around a solid, machined aluminum chassis.

256 synthesized UHF selectable frequencies, a tracking front-end filter section that automatically tunes to the selected frequency, and microprocessor controlled SmartSquelch™ and SmartDiversity™ ensure a highly reliable RF link. The receiver automatically adapts to the operating conditions based upon continuous monitoring of the RF and audio signals to eliminate dropout noise at close range, and provide maximum operating range when it is needed.

A proprietary dual-band compandor, wide range input limiting and extensive audio signal processing produce audio performance that invites the very finest microphones available.

The transmitters available include machined aluminum 100mW and 250mW belt-pack models, a 100mW plug-on model, and an advanced 100mW hand-held design with the exclusive VariMic™ cardioid electret capsule.

Give us a call toll free, or visit the web site for more information on the most advanced wireless mic system available.

Get the Guide!

The Wireless Guide uncovers many of the mysteries of wireless mic systems and provides a great list of methods to evaluate wireless systems without test equipment.

**Get the FREE 60 page Wireless Guide at:
www.lectrosonics.com/R/be1100**

Circle (144) on Free Info Card

Call (800) 821-1121

LECTROSONICS®
Professional Wireless Systems

581 Laser Road, Rio Rancho, NM 87124 USA - tel (505) 892-4501 - fax (505) 892-6243 - e-mail: sales@lectrosonics.com

MicroVideo Ltd www.microvideo.co.uk
 Microwave Radio Communications www.micbroadcast.com
 Microwave Service Corp. www.microwaveservice.com
 MilesTek Inc. www.milestek.com
 Miller Camera Support, LLC www.miller.tripods.com
 Miller Fluid Heads www.miller.com.au
 Miller Professional Products Canada www.millercanada.com
 Minolta Corp. www.minoltausa.com
Miranda Technology www.miranda.com
 Mirror Image Teleprompter www.teleprompters.com
 MIT Inc. www.mogami-wire.co.jp
 Mitsui Advanced Media www.mitsuidcr.com
 Mobile-tronics Co., Inc. www.mobile-tronics.com
 Mobilized Systems Inc. www.gomsi.com
 Modulation Sciences www.modsci.com
 Mohawk/CDT www.mohawk-cdt.com
 Motorola Broadband Communications Sector ... www.mot.com
 MSC Electronics Ltd www.msc.ca
 MSE Matthews Studio Equipment, Inc. www.matthewsgrip.com
Multidyne Video & Fiber Optic Systems www.multidyne.com
 Music 2 Hues www.Music2Hues.com
 Musicam USA www.musicamusa.com
 MYAT Inc. www.myat.com
 Nady Systems Inc. www.nadywireless.com
 Nagra USA www.nagra.com
 NagraVision S.A./ Kudelski Group www.nagra.com
 Nautel Maine, Inc. www.nautel.com
 Navitar www.navitar.com/
 NEC America Inc. Broadcast Equipment Department www.necbroadcast.com
 NEC Technologies www.nectech.com
 Nema Electronics International www.nema.com
 Nesbit Systems Inc. www.nesbit.com
 Netcom www.patchamp.com
Network Electronics US, Inc. www.network-electronics.no
 Neumann/USA www.neumannusa.com
 Neutrik USA Inc. www.neutrikusa.com
 Newtec America www.newtec.be
 Nickless Schirmer & Co Inc. www.nsc.com
 Nicom LLC www.nicomusa.com
 Nigel B Furniture www.nigelb.com
 North Star Technical Services/Best Power www.nstpower.com
 Northern Lights Productions www.northernlightsprod.com
 Northern Technologies Inc. www.northern-tech.com
 Nothing Real www.nothingreal.com

Nova Systems Inc. www.nova-sys.com
 NSI - (N Systems Inc.) www.nsystems.com
 NSN Network Services www.nsn.net
 nSTREAMS www.nstreams.com
 Nucomm Microwave Inc. www.nucomm.com
 O'Connor www.ocon.com
 Odetics www.odeticsbroadcast.com
 OGM Production Music www.OGMmusic.com
 OMB America www.members.aol.com/OmbRadioTV
 Omicron Video www.omicronvideo.com
Omneon Video Network www.omneon.com
 Omnibus www.omnibussystems.com
 OMNIMUSIC www.omnimusic.com
 OnePath Networks www.onepathnet.com
 Opamp Labs Inc. www.opamplabs.com
 Optibase Inc. www.optibase.com
Opticomm Corp. www.opticomm.com
 Optimum Productions www.optimumprod.com
 Options International www.OptionsInternational.com
 Optivision Inc. www.optivision.com
 Orad Hi-Tec Systems www.orad-ny.com
 Orban www.orban.com
 Pacific Radio Electronics www.pacrad.com
 Packaged Lighting Systems Inc. www.packagedlighting.com
 Packard-Hughes Interconnect www.packardhughes.com
 PAG USA www.pagusa.com
 Panasonic Broadcast www.panasonic.com/broadcast
 PANORAMAdtv www.panoramadt.com
 Paravision Technology Inc. www.paravision.com
 ParkerVision www.pvtv.com
 Parsons Audio www.paudio.com
 Path I Network Technologies Inc. www.llinnebur@path1.net
 Pearl Microphone Laboratory www.pearl.se
 Peerless Industries Inc. www.peerlessindustries.com
 Penta Labs www.pentalabs.com
PESA Switching Systems www.pesa.com
 Petrol www.petrolbags.com
Philips Digital Video Systems www.broadcast.philips.com
 Pinnacle Systems www.pinnaclesys.com
 Pipo Communications www.pipo.net
PiROD Inc. www.pirod.com
 Pixel Instruments Corp. www.pixelinstruments.com
Pixel Power www.PixelPower.com
 Pixel Power Ltd www.pixelpower.com
 Pixelan Software www.pixelan.com
 Pixelmetrix Corp. www.pixelmetrix.com
 PixStream www.pixstream.com

Plainview Batteries, Inc. www.plainviewbatteries.com
 Plastic Capacitors Inc. www.plasticcapacitors.com
 Play Inc. www.play.com
 Post Impressions Inc. ... www.postimpressions.com
 Potomac Instruments www.pi-usa.com
 Power Technology www.PowerTech-Gen.com
 PowerProduction Software www.powerproduction.com
 Prager Associates www.pragerassociates.com
 Prairie Pictures www.prairiepictures.com
 Premier Lighting & Production Co www.premier-lighting.com
 Prime Image Inc. www.primeimageinc.com
 Prime LED www.primeled.com
 Prism Media Products Inc. www.prismsound.com
 Professional Communications Systems www.pcomsys.com
 Professional Label Inc. www.professionallabel.com
 Prophet Systems Innovations www.prophetsys.com
 ProSource/BMI www.prosourcebmi.com
 Proximity Corp. www.proximity.com.au
 Pulizzi Engineering Inc. www.pulizzi.com
 QSC Audio Products, Inc. www.qscaudio.com
 QTV www.qtv.com
 Quantel www.quantel.com
Radamec www.radamec.com
 Radio Systems Inc. www.studiohub.com
 Radyne Comstream Corp. www.radynecomstream.com
 RAM Systems and Communications Inc. www.ramsys.com
 Rane Corp. www.rane.com
 Raylink www.raylink.com
 RCI Custom Products www.rcicustom.com
 RCS www.rcsworks.com
 RDA Systems www.rdasystems.com
 RDL (Radio Design Labs) www.rdl.net
 Redco Audio www.redco.com
 Rees Associates Inc. www.rees-associates.com
RFS Broadcast (Radio Frequency Systems) www.rfsbroadcast.com
 RF Specialties www.rfspec.com
 RF Technology Inc. www.rftechnology.com
 Richardson Electronics www.rell.com
 Rip-Tie Inc. www.riptie.com
Rohde & Schwarz www.rsd.de
 ROHN Industries, Inc. www.rohnnet.com
 Rolls Corp. www.rolls.com
 Rorke Data Inc. www.rorke.com/vs
 ROSCO/Entertainment Technology www.rosco-et.com
 Roscor Corp. www.roscom.com
 Ross Video Ltd www.rossvideo.com

The *Tiger* Advantage is clear to see



The PESA **Tiger** is the most recognizable routing switcher in the industry. The reasons for the **Tiger's** overwhelming success are easy to see.

The PESA **Tiger** is adaptable to a wide range of requirements. Standard frames can be populated with a mixture of analog and digital cards in increments of 8 inputs and 16 outputs. This architecture makes expansion very affordable.

Many leading mobile production companies specify the PESA **Tiger** due to its proven reliability and rugged construction. Its compact size is another great advantage.

PESA control options for the **Tiger** are very flexible, too. The versatile **3500** series control systems support a wide range of panel choices. The PESA **e-Route** provides TCP/IP based router control from the desktop.

144x144 Routing Switcher

- Up to 360MB/s for Digital Video
- Analog video to 250MHz
- Stereo Analog or dual AES/EBU Audio
- 12RU Video Chassis; 8 RU Audio Chassis
- Internal Redundant Power Supplies

Call for more information today!



PESA
Switching
Systems

35 Pinelawn Road • Suite 99E • Melville, NY 11747 • salesinfo@pesa.com

Tel: 631-845-5020 • 800-328-1008 • Fax: 631-845-5023 • www.pesa.com

Circle 11 on Free Info Card
www.americanradiohistory.com

RTI-Research Technology International www.rtic.com
Rules Service Company www.ruleserv.com
Russ Berger Design Group www.rbdg.com
Sabine Inc. www.Sabine.com
Sabre Communications www.sabrecom.com
SADiE Inc. www.sadie.com
Sanken Microphones .. www.promediaaudio.com
Sarnoff Corp. www.sarnoff.com
Satellite Export & Engineering www.sepatrilot.com
Satvision Technology International Inc. www.satvision.com
SBS Technologies www.sbs-cp.com
Scala Broadcast Multimedia www.scala.com
ScheduALL by VizuAll Inc. ... www.scheduall.com
Scientific-Atlanta www.sciatl.com
Scott Studios Corp. www.scottstudios.com
SD Tech/Div. GVC www.gvcaudio.com
SeaChange International www.schange.com
SED Systems, a division of Calian Ltd. www.sedsystems.ca
Selco Products Co www.selcoproducts.com
Sencore Electronics www.sencore.com
Sennheiser Electronics www.sennheiserusa.com
SF Video www.sfvideo.com
SGI (Silicon Graphics) www.sgi.com/go/broadband
Shively Labs www.shively.com
Shook Electronics USA Inc. ... www.shook-usa.com
Shure Inc. www.shure.com
Side Effects Software www.sidefx.com
Sierra Automated Systems Eng Corp. www.sasaudio.com
Sierra Design Labs www.sdlabs.com
Sierra Video Systems www.sierravideo.com
Sigma Designs, Inc. www.sigmadesigns.com
Sigma Electronics www.sigmaelectronics.com
Signal Transport www.sigt.com
Silicon Valley Power Amplifiers ... www.svpa.com
SiteMaster www.sitemaster.com
SMART Technologies Inc. www.smarttech.com
SMPTE www.smpte.org
Snell & Wilcox www.snellwilcox.com
Softimage www.softimage.com
SoftNI Corp. www.softni.com
Solid State Logic Inc. www.solid-state-logic.com
Solutions Custom Furnishings www.solutionscfi.com
Sonic Desktop Software www.smartsound.com
Sonic Foundry www.sonicfoundry.com
Sonic Solutions www.sonic.com
Sonifex Ltd www.sonifex.co.uk
Sony Electronics www.sony.com/professional
Sony Electronics Inc./Media Solutions Co www.sel.sony.com/sel/msc

SoperSound Music Library www.sopersound.com
Sound Devices LLC www.sounddevices.com
Sound Ideas www.sound-ideas.com
Spacewise Broadcast Furniture Inc. www.spacewise.com
SpectraSite Broadcast Group www.spectrasite.com
Spencer Technologies www.spencer-tech.com
Spruce Technologies Inc. . www.spruce-tech.com
SSE Telecom Inc. www.sset.com
Staco Energy Products Co www.stacoenergy.com
StageTools www.stagetools.com
Standard Communications Corp. www.standardcomm.com
Starlink Inc. www.starlinkinc.com
Steinberg www.steinberg.net
STE-MAN, Inc. www.ste-man.com
Storage Concepts Inc. www.storageconcepts.com
Stradis Inc. www.stradis.com
Strategic I.T. Solutions www.strategicit.net
Stratos Lightwave, LLC www.stratoslightwave.com
Studer Professional Audio AG ... www.studer.ch
Studio Systems Electronics Ltd www.studio-systems.co.uk
Studio Technology ... www.studiotechology.com
Studiomaster www.studiomaster.com
Sun Microsystems/Interactive Services www.sun.com
Sundance Digital Inc. www.SundanceDigital.com
Superior Broadcast Products www.superiorbroadcast.com
Superior Electric (formerly Warner Electric) www.superiorelectric.com
Superscope Technologies Inc./Marantz www.marantz.com/product/professional
SurgeX www.surgex.com
Survey Technologies www.surveytech.com
SV Microwave Inc. www.svmicro.com
Switchcraft Inc. www.switchcraft.com
SWR www.swr-rf.com
Symetrix www.symetrixaudio.com
Synergistic Technologies Inc. www.stidigital.com
SyntheSys Research www.synthesysresearch.com
Systems Wireless Ltd www.swl.com
T.Z. Sawyer Technical Consultants www.sawyer.com
Tadiran Scopus - USA www.tadiranscopus.com
TAI Audio www.taiaudio.com
Tally Display Corp. (TDC) www.tallydisplay.com
Tamrac Inc. www.tamrac.com
Tandberg Television www.tandbergtv.com
Tannoy/TGI North America Inc. www.tannoy.com

TASCAM www.tascam.com
TC Electronic www.tcelectronic.com
Team Systems Inc. www.team-systems.com
Technical Animation www.technim.com
Techni-Tool Inc. www.techni-tool.com
TecNec/Laird Telemedia www.tecnec.com
Teklogic Inc. www.teklogic.com
Tektronix Inc. www.tektronix.com
Telecast Fiber Systems www.telecast-fiber.com
TeleCast Group AS www.telecast.no
Telect Inc. www.avsm.com
Telemetrics Inc. www.telemetricsinc.com
Telescript Inc. www.telescript.com
Telestream www.telestream.net
Telex Communications, Inc. & Electro Voice www.telex.com
Tentel Corp. www.tentel.com
Teralogic www.teralogic-inc.com
TeraNex www.teranex.com
TerraSonde www.terrasonde.com
TFT Inc. www.tftinc.com
The Austin Company www.theaustin.com
The Hollywood Edge, Soundelux Microphones www.soundelux.com/mics
The Systems Group www.tsg-hoboken.com
The Whitlock Group www.whitlock.com
Theatre Service & Supply Corp. www.stage-n-studio.com
Thermodyne International Ltd www.thermodyne-online.com
Thomcast Communications Inc. - Comark Division www.thomcastcom.com
Thomson Broadcast www.thomsonbroad.com
Thomson Components & Tubes Corp. www.tctus.com
Tiernan Communications www.tiernan.com
Titus Technological Labs www.tituslabs.com
Trango Systems www.trangosys.com
Transcom Corp. www.trcorp.com or www.fmamtv.com
Transoft Networks Inc., a Hewlett Packard Company www.transoftnetworks.com
TRF Production Music Libraries www.trfmusic.com
Trompeter Electronics Inc. ... www.trompeter.com
Turner Audio Sales LLC www.turneraudio.com
TV One Multimedia Solutions www.tvone.com
TVFX www.tvfxinc.com
TW Graphics www.tw-graphics.com
TWM Media www.tfwm.com
ULTIMATE Corp. www.ultimate.com
UNIMAR Inc. www.unimar.com
Unique Tracks www.uniquetracks.com
United Media Inc. www.unitedmediainc.com
Utah Scientific www.utahscientific.com
Vari-Lite www.vari-lite.com

Scaleable Design, Feature-Rich, Highly Integrated Solution!

**New for
2000**

IBUS PHOENIX
POWER & COMPUTING SYSTEMS
A Maxwell Technologies Company

**"Because
we believe
our products
are a direct
reflection
of the
engineers
behind them."**

"What solution can we build for you today?"

**TR1S and TR2S
1U and 2U
Servers**

StingRay II+

- Pentium® III/Celeron FC-PGA SBC
- up to 850 MHz
- Dual Processing Capability
- up to 20 ISA slots

I-Bus/Phoenix's new 1U and 2U servers offer unparalleled power and reliability for their size. The TR1S and TR2S are ideal for key applications such as e-mail servers, e-commerce front ends, web servers, client server platforms, virtual private networks and firewalls. With excellent levels of system integrity and space saving design, the TR1S and TR2S are available as fully integrated solutions for a range of industries where space is at a premium.



- High reliability rackmount enclosure
- Full redundancy and fault tolerance
- Only 1.75" and 3.5" high
- Tailored solutions available

888-307-7892

Circle (147) on Free Info Card

I-Bus/Phoenix, A Maxwell Technologies Company
8888 Balboa Avenue · San Diego, CA 92123

tel 858-503-3000 fax 858-503-3005 email sales@ibus.com

www.ibus.com

VBrick Systems Inc. www.vbrick.com
 Vcom3D www.vcom3d.com
 VDP Inc. www.vidcad.com
 Veetronix Inc. www.veetronix.com
 Vega www.vegawireless.com
 Vela www.vela.com
 Veon Inc. www.veon.com
 Vergence Technology Inc. www.vergenceaudio.com
 Veriad (formerly United Ad Label Co Inc.) www.veriad.com
 VertexRSI www.powertechinc.com/
 Vi (z) rt www.vizrt.com
 Viaccess S.A. www.viaccess.fr
 Vibrint Technologies www.vibrint.com
 Vicon Motion Systems www.vicon.com
 Video Accessory Corp. www.vac-brick.com
 Video Analyzers www.compuvideo.com
 Video Data Systems www.videodatasys.com
 Video Networks Inc. www.vnet.com
 Video Rentals Inc. (VRI) www.rentvri.com
 Video Robotics Inc. www.videorobotics.com
 Video Visions www.video-visions.com
 Videoframe Systems Inc. www.videoframesystems.com
 Videomagnetics Inc. www.videomagnetics.com

Videomedia Inc. www.videomedia.com
 Videonics www.videonics.com
 Videoquip Research Limited www.videoquip.com
 VideoTek www.videotek.com
 Viewgraphics www.viewgraphics.com
 Vimex International Corp. www.vimex.com
 Vincor Ltd www.vincor.com
 Vinten Inc. www.vinten.com
 Virage Inc. www.virage.com
 Virtual Ink www.virtual-ink.com
 Visual Matrix Corp. www.visual-matrix.com
 VITEC www.vitecmm.com
 V-Soft Communications www.v-soft.com
 Walters-Storyk Design Group ... www.wsdg.com
 Ward-Beck Systems Ltd www.wbsltd.com
 Waterfront Communications Corp. www.wtrfrnt.com
 Wave:Space Inc. www.wave-space.com
 Weather Central Inc. www.WXC.com
 Wegener Communications ... www.wegener.com
 Welch Allyn www.LPD.welchally.com
 Westcott (F J Westcott Co) www.fjwestcott.com
 Westlake Audio www.westlakeaudio.com
 Wheatstone Corp. www.wheatstone.com

Whirlwind www.whirlwindusa.com
 Will-Burt www.willburt.com
 William Weisinger Engineering Services www.wwes.org
 Winemiller Communications www.winemiller.com
 Winsted Corp. www.winsted.com
 Wireworks Corp. www.wireworks.com
 Wohler Technologies Inc. www.wohler.com
 Wold International, Inc. www.woldinternational.com
 WolfVision Inc. www.wolfvision.com
 Workstation Users Alliance www.wua.cc
 Xicom Technology www.xicomtech.com
 XOrbit Software Associates Inc. www.xorbit.com
 Yamaha Corp. of America www.yamaha.com/proaudio
 YEM America Inc. www.yem.com
 You/Com Audiocommunicatie BV www.youcom.nl
 Z Technology Inc. www.ztechnology.com
 Zack Electronics www.zackinc.com
 Zandar Technologies www.zandar.com
 Zapex Technologies www.zapex.net
 Zaxcom www.zaxcom.com

DIGITAL UPGRADES TOMORROW? ANALOG NEEDS NOW? CAN YOUR STL EXPAND WITH THEM?



DIGITAL TRANSMITTER

Introducing the New
StarLink™ Series

- STL/TSL/ICR
- Full analog now
- Full digital tomorrow
- Half & half anytime

STUDIO

BEAUTY SHOT

ANALOG

TRAFFIC CAM

BMS Broadcast
 Microwave
 Services, Inc.
 A Cobu Company

P.O. Box 84630 San Diego, CA 92138-4630
<http://www.bms-inc.com> email: sales@bms-inc.com
 Fax: 858.560.1637 Phone: 858.560.8601 800.669.9667



leading stations to digital integration
takes us down a lot of

r o a d s .

We understand that the road to digital transition and integration for one station may be very different from that of another. Having been down a lot of roads in large markets and small, we bring a wealth of experience planning and managing the digital transition process, addressing the specific needs of the stations we work for and the unique markets they serve.

We have the resources: financial, technical and human. We have the experience. We have the relationships: architects, contractors, manufacturers. And we have the training systems to get your people up to speed in a hurry.

So whether you're managing in Mayberry or maneuvering in Megalopolos, we can make the road to digital transition and integration straight and smooth. Give us a call before you begin your journey.

Technology Evolves. We Take You There®.



PROFESSIONAL COMMUNICATIONS SYSTEMS

A DIVISION OF MEDIA GENERAL, INC.

5426 Beaumont Center Blvd., Suite 350 • Tampa, Florida 33634

Toll Free: (800) 447-4714 • Fax: (813) 886-9477

www.pcomsys.com

2net FX

2370-A Qume Dr
San Jose, CA 95131
408-232-1600
Fax: 408-232-1601
www.2netFX.com

3 Point Digital

3300 N San Fernando Rd
Burbank, CA 91504
888-373-2843; 818-729-3000
Fax: 818-729-3001
www.3pd.com

360 Systems

5321 Sterling Center Dr
Westlake Village, CA 91361
818-991-0360
Fax: 818-991-1360
www.360systems.com
info@360systems.com

A&J Cases

P.O. Box 90596 Airport Station
Los Angeles, CA 90009
800-537-4000; 310-216-2170
Fax: 310-216-2694
www.ajcases.com
service@ajcases.com

A.F. Associates, Inc.

100 Stonehurst Court
Northvale, NJ 07647
201-767-1200
Fax: 201-784-8637
www.afassoc.com
sales@afassoc.com

Ac-cetera Inc.

3120 Banksville Rd
Pittsburgh, PA 15216
800-537-3491; 412-344-8609
Fax: 412-344-0818
www.ac-cetera.com

Accom

1490 O'Brien Dr
Menlo Park, CA 94025
650-328-3818
Fax: 650-327-2511
www.accom.com
info@accom.com

AccuWeather Inc.

385 Science Park Road
State College, PA 16803
800-566-6606; 814-237-0309
Fax: 814-235-8609
www.accuweather.com

Acoustical Solutions

3603 Mayland Court
Richmond, VA 23233
800-782-5742; 804-346-8350
Fax: 804-346-8808
www.acousticalsolutions.com
info@acousticalsolutions.com

Acrodyne Industries

10706 Beaver Dam Road
Cockeysville, MD 21030
800-523-2596;
www.acrodyne.com
acroinfo@acrodyne.com

Acterna

9145 Balboa Ave
San Diego, CA 92123
800-854-2708; 858-279-2200
Fax: 858-627-0146
www.mpeg.Acterna.com
mpeg@Acterna.com



ADC Broadcast Systems Division

102 Rahway Road
McMurray, PA 15317
800-215-2614; 724-941-1500
Fax: 724-941-4603
www.adc.com/broadcast
broadcast_info@adc.com
See our products in the following category:
TV Transmitters, Translators, Exciters &
Antennas

ADC/ Nvision

P.O. Box 1658
Nevada City, CA 95959
800-726-4266; 612-938-8080
Fax: 612-946-3292
www.adc.com/Broadcast
Nigel_Spratling@adc.com

Adrienne Electronics Corp.

7225 Bermuda Rd, Suite G
Las Vegas, NV 89119
702-896-1858
Fax: 702-896-3034
www.adrielec.com
info@adrielec.com

Adtec Inc.orporated

408 Russell Street
Nashville, TN 37206
615-256-6619
Fax: 615-256-6593
www.adtecinc.com
ermo@adtecinc.com

ADAPTIVE BROADBAND™

Advanced Broadcast Systems Inc.

5825 Bullittsville Rd
Burlington, KY 41005-0147
800-499-4554; 859-689-0075
Fax: 859-689-0073
www.abs-tv.com
abstv@fuse.net

Advanced Designs Corp.

1169 W 2nd St
Bloomington, IN 47403
812-333-1922
Fax: 812-333-2030
www.doprad.com

Advanced Digital Information Corp.

P.O. Box 97057
Redmond, WA 98073-9757
800-336-1233; 425-881-8004
Fax: 425-881-2296
www.adic.com
sales@adic.com

AETA Audio Corp.

75 Fleetwood Dr., Suite 200
Rockaway, NJ 07866
973-659-0555
Fax: 973-659-9555
www.aetausa.com
info@aetausa.com

AFA Products Group

100 Stonehurst Court
Northvale, NJ 07647
201-750-3200
Fax: 201-750-3049
www.afassoc.com
sales@afassoc.com

Agilevision

201 Washington Road
Princeton, NJ 08543
609-514-4030
Fax: 609-514-4029
www.agilevision.com
inquiries@agilevision.com

AIST Inc.

715 West Orchard Drive, Suite 7
Bellingham, WA 98225
866-924-2478; 360-527-1489
Fax: 360-527-1619
www.aist.com
sales-us@aist.com

EEV IOTs

from Marconi

the difference is dependability

... whatever the power,
whatever
the application

- The most extensive range
 - digital & analog IOTs
 - The highest powers
 - 77 + 7.7 kW analog
 - 30 kW digital
 - The proven performer
 - over 20 million hours on air service
 - The commitment to optimization
 - digital performance
 - power
- All backed by unrivalled support



Marconi Applied Technologies

www.marconitech.com

US: Tel 1 800 342 5338 Fax (914) 592 5148 Email MTech.usa@marconi.com

UK/RoW: Tel 44 1245 493493 Fax 44 1245 492492 Email MTech.uk@marconi.com

Circle 138 on Reader Card

Marconi

"This could be your finest hour."

AJA Video

443 Crown Point Circle
Grass Valley, CA 95945
800-251-4224; 530-274-2048
Fax: 530-274-9442
www.aja.com
sales@aja.com

AKAI Musical Instrument Corp.

4710 Mercantile Drive
Fort Worth, TX 76137
800-433-5627; 817-831-9203
Fax: 817-222-1490
www.akaipro.com
info@akaipro.com

AKG Acoustics US

1449 Donelson Pike
Nashville, TN 37217
615-360-0499
Fax: 615-360-0275
www.akg-acoustics.com
akgusa@harmon.com

Alcatel USA

100 Coit Road 401-100
Plano, TX 75075
800-252-2835; 972-996-5000
Fax: 972-996-2778
www.usa.alcatel.com/telecom/access/
wireless
scott.d.nelson@usa.alcatel.com

Alex Temex Multimedia

29 Avenue de la Baltique
91953 Les Ulis, Les Ulis, France
+33 1 47 16 95 77
Fax: +33 4 50 64 09 02
www.alex.com

Alias\Wavefront

210 King Street East
Toronto, ON, Canada M5A 1J7
416-362-9181
Fax: 416-369-6139
www.waveframe.com

Allen Osborne Associates

756 Lakefield Road Unit J
Westlake Village, CA 91361
805-495-8420
Fax: 805-373-6067
www.aoa-qps.com
See our products in the following category:
Portable Masts

Allied Tower Company

2525 South Shore Blvd, Suite 420
League City, TX 77573
800-332-0025; 281-535-0501
Fax: 281-535-0498
www.alliedtower.com

Alpha Wire Company

711 Lidgerwood Ave
Elizabeth, NJ 07207-0711
800-52-ALPHA; 908-925-8000
Fax: 908-925-6923
www.alphawire.com

AMCO Engineering Co

3801 N Rose St
Schiller Park, IL 60176
800-833-3156; 847-671-6670
Fax: 847-671-9469
www.amcoengineering.com

AMEK US Operations Inc.

1449 Donelson Pike
Nashville, TN 37217
888-286-9358; 615-360-0488
Fax: 615-360-0273
www.amek.com
amekusa@harmon.com

AMS Neve

100 6th Ave., 5th Floor
New York, NY 10013
888-888-6383; 212-965-1400
Fax: 212-965-3739
www.ams-neve.com
enquiry@ams-neve.com

Analog Way

75 Maiden Lane
New York, NY 10038-4810
212-269-1902
Fax: 212-269-1943
www.analogway.com
jgueras@analogway.com

Andrew Corporation

10500 W 153rd St
Orland Park, IL 60462
800-DIAL-4-RF; 708-349-3300
Fax: 708-349-5444
www.andrew.com
rose.wolski@andrew.com
See our products in the following categories: RF Feedline, Components & Towers; Satellite Equipment; TV Transmitters, Translators, Exciters & Antennas

Angenieux

40 G Commerce Way
Totowa, NJ 07511
973-812-3858
Fax: 973-812-9050
www.angenieux.com
civ.sales @angenieux.com

Antenna ID Products

22 Bryan Wynd
Glenmoore, PA 19343
610-458-8418
Fax: 610-458-8418
www.Antennaid.com
antennaid@aol.com

Antex Electronics

1125 W 190th St
Gardena, CA 90248
800-338-4231; 310-532-3092
Fax: 310-532-8509
www.antex.com
sales@antex.com

Anthro Corp.

10450 SW Manhasset Dr
Tualatin, OR 97062
800-325-3841; 503-691-2556
Fax: 800-325-0045
www.anthro.com
sales@antro.com



The worldwide standard

Anton/Bauer

14 Progress Drive
Shelton, CT 06484
800-422-3473; 203-929-1100
Fax: 203-925-9935
www.antonbauer.com
websales@antonbauer.com

Anvil Cases

15650 Salt Lake Ave
City of Industry, CA 91745
800-359-2684; 626-968-4100
Fax: 818-968-1703
www.anvilcase.com
anvil@anvilcase.com

Aphex Systems

11068 Randall St
Sun Valley, CA 91352
818-767-2929
Fax: 818-767-2641
www.aphex.com
sales@aphex.com

Looking to Sell Equipment Online?



Your Internet Storefront is Ready. *Right Now.*

Imagine one online marketplace where you can sell professional, digital-media production equipment – without investing time and money in the sale. Now imagine that you can leverage this powerful sales tool right now – for free. That's the reality of Digibid.

Solve Inventory Problems

Sell your individual components, overstock items, discontinued products or trade-ins, demo gear and more, with no hassles or phone calls. Simply post them on Digibid and get top dollar. It's that simple.

Visit Digibid Today

Thousands of smart production professionals turn to Digibid every day. There's no better source for relevant, timely competitive intelligence and industry-equipment information. Visit today!

It's FREE to List Items for Sale

You pay a commission only after your item sells. Digibid completely handles the buyer side of the transaction. To date, we've more than 25,000 successful auctions.

How to Get Started

Just register online at digibid.com.

Get a Branded, Online Storefront

If your company is interested in a higher level of promotion and exposure, inquire about our setting up your own, branded digital marketplace, leveraging our state-of-the-art technology. We have more than 21,000 registered users and more than 90,000 unique monthly visitors.



a member of **IndustryClick**
Where industry clicks on the Web!

E-mail: sales@digibid.com

Phone: 609-371-7833

Applied Research & Technology

215 Tremont St
Rochester, NY 14608
716-436-2720
Fax: 716-436-3942
www.artproaudio.com
cserve@artroch.com

APW Zero Cases

500 W 200 N
North Salt Lake, UT 84054
800-416-9025; 801-299-7354
Fax: 801-299-7350
www.zerocases.com
sales@zerocases.com

Armstrong Transmitter

4835 N. Street Road
Marcellus, NY 13108
315-673-1269
Fax: 315-673-9972
www.armstrongtx.com
sales@armstrongtx.com

Arrakis Systems

2619 Midpoint Drive
Fort Collins, CO 80525
970-224-2248
Fax: 970-493-1076
www.arrakis-systems.com
sales@arrakis-systems.com

Aston Electronic Designs

125-127 Deepcut Bridge Rd
Deepcut Camberley, Surrey, UK
GU166SD
+44 1252 836 221
Fax: +44 1252 837 923
www.astondes.com
sales@astondes.com

Astro Systems

1756 Flower St
Glendale, CA 91201
818-244-1806
Fax: 818-244-1878
www.astro-systems.com
info@astro-systems.com
See our products in the following categories: Computers & Peripherals; TBCs, Frame Syncs & Conversion Equipment; Test & Measurement Equipment; Video Editing Systems; Video Routing & Distribution

ATI-Audio Technologies, Inc.

328 W Maple Ave
Horsham, PA 19044
800-959-0307; 215-443-0330
Fax: 215-443-0394
www.atiguys.com
sam@atiguys.com

Atlantic Satellite Communications Inc.

240 Pegasus Ave
Northvale, NJ 07647
201-784-0555
Fax: 201-784-2892
www.atlsat.com
fluperella@wtrfrnt.com



Audemat Inc.

288 Littleton Rd., ste. 5
Westford, MA 01886
978-392-2110
Fax: 978-392-2287
www.audemat.com
info@audemat.com

Audio Accessories Inc.

Mill St., P.O. Box 360
Marlow, NH 03456
603-446-3335
Fax: 603-446-7543
www.patchbays.com

Audio Precision

P.O. Box 2209
Beaverton, OR 97075-2209
800-231-7350; 503-627-0832
Fax: 503-641-8906
www.audioprecision.com
sales@audioprecision.com

Audio Processing Technology Ltd

Edgewater Road
Belfast, North Ireland BT3 9JQ
+44 28 9037 1110
Fax: +44 28 9037 1137
www.aptx.com

Audio Video Systems Ltd

Santa Monica, CA 90291
661-251-6802
Fax: 661-251-5780
www.usedvideo.net

Audiolab Electronics Inc.

5831 Rosebud Lane Bldg C
Sacramento, CA 95841
800-624-1903; 916-348-0200
Fax: 916-348-1512
www.audiolabelectronics.com
info@audiolabelectronics.com

Audio-Technica US Inc.

1221 Commerce Drive
Stow, OH 44224
330-686-2600
Fax: 330-686-0719
www.audio-technica.com
pro@atus.com
See our products in the following categories: Audio Accessories; Audio Mixers; Microphones & Accessories

Aura Systems

2330 Utah Avenue
El Segundo, CA 90425
310-643-5300
Fax: 310-643-8719
www.aurasystems.com
auragensales@aurasystems.com

Auratone Corp.

P.O. Box 180698
Coronado, CA 92178-0698
619-297-2820
Fax: 619-296-8734

AutoPatch

2416 Cheney-Spokane Rd Box 350
Cheney, WA 99004-0350
800-622-0246; 509-235-2636
Fax: 509-235-2646
www.autopatch.com
sales@autopatch.com

AVCOM of Virginia Inc.

500 Southlake Blvd
Richmond, VA 23236
804-794-2500
Fax: 804-794-8284
www.avcomofva.com
sales@avcomofva.com

Avica

1201 Olympic Blvd.
Santa Monica, CA 90404
800-706-0077; 310-450-9090
Fax: 310-450-5353
www.avicatech.com
contact@avicatech.com

When Chicago's Tallest Building Needed 15 Channels* - They Came To the Leaders in Broadband Technology!

Chosen, by TrizecHahn Property Group, for over 30 years of global manufacturing experience, RFS is the leader in broadband technology.

Our broadband RF systems offer the most flexible and customized arrangements for the DTV Market and beyond.

RFS designs and manufactures broadband panel arrays, slot antennas, and combiners for adjacent and non adjacent channels designed to suit your needs.

Complimented by a full range of rigid and flexible line along with complete accessories which have been reliably manufactured and supplied to the broadcast market for decades. RFS is your Total Systems Solution provider - come take a fresh look, we will deliver.

**DTV Ready....
DTV Proven!**

RADIO FREQUENCY SYSTEMS

RFS Broadcast

59 Dodge Avenue

North Haven, CT 06473

Tel: 203-239-3311 Fax: 203-239-9260

email: info@rfsbroadcast.com

web: www.rfsbroadcast.com

*Customer Requirements: 5 Channel, 7 Channel, and 3 Channel Systems



Circle (152) on Free Info Card

First Sears Building Broadband Panel Array Antenna

Avid

Avid Technology

One Park West
Tewksbury, MA 01876-1282
800-949-AVID; 978-640-6789
Fax: 978-640-1366
www.avid.com

See our products in the following categories: Automation Systems; Computers & Peripherals; Digital Audio Workstations; Graphics & Animation Systems; Video Editing Systems; Video Servers & Storage

Avtek Systems

3 Fox Run
Sterling, MA 01564
800-423-0913; 978-422-3466
Fax: 978-422-5258
www.psdigital.com
patb@psdigital.com

Axon Digital Design BV

Handelsweg 5
NL-5071 NT Udenhout, The Netherlands
+31 13511 6666
Fax: +31 13 511 4151
www.axon.nl
axon@axon.nl

Azden Corp.

147 New Hyde Park Rd
Franklin Square, NY 11010
516-328-7500
Fax: 516-328-7506
www.azdencorp.com
azdenus@aol.com

Aztec Radiomedia - America

2101 Wilson Blvd., Suite 1004
Arlington, VA 22201
703-875-9100
Fax: 703-875-9161
www.aztec-radiomedia.com
contact@aztec-radiomedia.com

B&H Photo

420 Ninth Ave
New York, NY 10001
800-947-9928; 212-444-5028
Fax: 212-444-5001
www.bhphotovideo.com

B+K Precision

1031 Segovia Circle
Placentia, CA 92870
800-462-9832;
Fax: 714-237-9214
www.bkprecision.com

BAF Communications Corp.

314 Northstar Court
Sanford, FL 32771
800-633-8223; 407-324-8250
Fax: 704-328-0513
www.bafcom.com

BARCONET

3240 Town Point Drive
Kennesaw, GA 30144
800-992-5016; 770-590-3600
Fax: 770-590-3610
www.barconet.com
info.na.bcs@barco.com
See our products in the following categories: Microwave, Fiber Optic & Telco Equipment; Video Compression Equipment; Video Monitors, Projectors & Accessories

BDL Autoscrypt

A8 Poplar Business Park, 10 Prestons Road
London, UK E14 9RL
+44 020 75381427
Fax: +44 020 75159529
www.bdlautoscrypt.com
sales@bdlautoscrypt.com

Belar Electronics Lab Inc.

119 Lancaster Ave, P.O. Box 76
Devon, PA 19333
610-687-5550
Fax: 610-687-2686
www.belar.com
sales@belar.com

Belden Electronics Division

2200 US Highway 27 S
Richmond, IN 47374-1980
800-BELDEN1; 765-983-5200
Fax: 765-983-5294
www.belden.com
info@belden.email.com

Benchmark Media Systems

5925 Court St Rd
Syracuse, NY 13206-1707
800-262-4675; 315-437-6300
Fax: 315-437-8119
www.benchmarkmedia.com
Info@benchmarkmedia.com
See our products in the following categories: Audio Accessories; Audio Routing & Distribution

Bexel

801 S. Main Street
Burbank, CA 91506
818-841-4800
Fax: 818-841-8539
www.bexel.com

Bext Inc.

1045 10th Ave
San Diego, CA 92101
619-239-8462
Fax: 619-239-8474
www.bext.com

Beyerdynamic

56 Central Ave
Farmingdale, NY 11735
800-293-4463; 631-293-3200
Fax: 631-293-3288
www.beyerdynamic.com
sales@beyerdynamic

Bi-Tronics Inc.

10 Skyline Drive
Hawthorne, NY 10532
800-666-0996; 914-592-1800
Fax: 800-569-4244
www.bi-tronics.com
info@bi-tronics.com

Boeckeler Instruments

4650 South Butterfield Drive
Tucson, AZ 85714
800-552-2262; 520-745-0001
Fax: 520-745-0004
www.pointmaker.com
info@boeckeler.com

Bogen Photo Corp.

565 E Crescent Ave
Ramsey, NJ 07446
201-818-9500
Fax: 201-818-9177
www.bogenphoto.com
info@bogenphoto.com
See our products in the following categories: Audio Accessories; Camera Support; Cameras & Accessories; Lighting Equipment; Microphones & Accessories

BOLAND COMMUNICATIONS

Boland Communications

P.O. Box 4728
Mission Viejo, CA 92690
800-918-9090; 949-367-9911
Fax: 949-367-9944
www.bolandcom.com

Boris FX/Artel Software Inc.

381 Congress Street
Boston, MA 02210
888-77-BORIS; 617-451-9900
Fax: 617-451-9916
www.BorisFX.com
garrettm@artelsoft.com

Boulder Instruments

1823 Sunset Place, Suite D
Longmont, CO 80501
888-497-7327; 303-485-2721
Fax: 303-485-1247
www.boulderinstruments.com
information@boulderinstruments.com

BOXX Technologies, Inc.

9390 Research Blvd. Kaleido II, Suite 300
Austin, TX 78759
877-877-BOXX; 512-835-0400
Fax: 512-835-0434
www.boxxtech.com

Bradley Broadcast Sales Inc.

7313-G Grove
Frederick, MD 21704
800-732-7665; 301-682-8700
Fax: 301-682-8377
www.bradleybroadcast.com
info@bradleybroadcast.com

Brightline

33-4 McGovern Boulevard
Crescent, PA 15046
724-457-0717
Fax: 724-457-2247
www.brightlines.com
kkatz@brightlines.com

Broadcast Electronics Inc.

4100 N 24th St
Quincy, IL 62301
217-224-9600
Fax: 217-224-9607
www.bdcast.com
odcast@bdcast.com

BMS

Broadcast Microwave Services, Inc.
A COMU Company

Broadcast Microwave Services

5636 Ruffin Rd
San Diego, CA 92123
602-669-9667; 858-560-8601
Fax: 858-560-1637
www.bms-inc.com
sales@bms-inc.com
See our products in the following category:
microwave, Fiber Optic & Telco Equipment

Broadcast Store (BCS)

840 Flower St
Glendale, CA 91201
818-551-5858
Fax: 818-247-3487
www.broadcaststore.com

Sound solutions by Ward-Beck Systems

WARD-BECK SYSTEMS
STANDS ALONE
Legendary design
Legendary quality
Legendary construction



AFFORDABLE BY COMMITMENT



XTM4 EXTENDED RANGE TEST METER

Versatility plus in the measurement of AES3, SDI embedded (optional) and analog audio signals over a wide range. High quality moving needle VU and Peak Program meters. Dot matrix alphanumeric readout provides operating information. Front and rear panel I/O for quick and easy access.

Circle (155) on Free Info Card

Multi-Solution Components



D8205 AES DIGITAL PROCESSING AMPLIFIER

A digital DA with a difference! Provides local or remote level control of AES signals, sample rate conversion, mixing of AES signals, generates a reference tone for test or synchronization. Check out the family of 8200 series cards.

Circle (153) on Free Info Card



POD17 ADJUSTABLE LEVEL DA WITH SRC

Local or remote level adjustment of AES signals. Sample rate conversion and signal distribution. 75 or 110 ohm versions. A member of the rapidly growing POD series.

Circle (154) on Free Info Card



AMS4 AUDIO MONITOR SYSTEM

4-Input 1RU audio monitor system accepts AES3, AES3-ID and analog audio signals. Bargraph VU, phase indicators, SDI input optional.

Circle (156) on Free Info Card



WARD-BECK SYSTEMS LTD.

TORONTO, ONTARIO, CANADA M1B 2K4

TEL: (416) 335-5999 FAX: (416) 335-5202 TOLL FREE 1-800-771-2556

website: www.ward-beck.com e-mail: sales@ward-beck.com

Broadcast Video Systems

40 W. Wilmot St.
Richmond Hill, ON, Canada L4B 1H8
905-764-1584
Fax: 905-764-7438
www.bvs.on.ca
bvs@bvs.on.ca

See our products in the following categories: Audio Accessories; Production Switchers & Effects; Test & Measurement Equipment; Video Accessories

BSW-Broadcast Supply Worldwide

7012 27th St West
Tacoma, WA 98466
800-426-8434; 253-565-2301
Fax: 253-565-8114
www.bswusa.com
sales@bswusa.com

BUF Technology

12335 World Trade Drive, Suite 11
San Diego, CA 92128
858-451-1350
Fax: 858-451-6589
www.buftek.com
info@buftek.com

Buhl Industries

14-01 Maple Avenue
Fair Lawn, NJ 07410
973-423-2800
Fax: 973-423-2854
www.buhl-ind.com
buhl@ix.netcom.com

Burk Technology Inc.

7 Beaver Brook Drive
Littleton, MA 01460
800-255-8090; 978-486-0086
Fax: 978-486-0081
www.burk.com

Burst Electronics Inc.

P.O. Box 1468
Corrales, NM 87048
505-898-1455
Fax: 505-898-0159
www.burstelectronics.com
sales@burstelectronics.com

Calrec Audio Ltd

Nutclough Mill, Hebden Bridge
West Yorkshire, UK HX7 8EZ
+44 1422 842 159
Fax: +44 1422 845 244
www.calrec.com
kevine@calrec.com
See our products in the following category:
Audio Mixers

Camera Support International (CSI)

P.O. Box 681
Woodland Hills, CA 91365
818-887-5430
Fax: 818-887-5727
www.csitripods.com

Camplex Corporation

3302 W 6th Ave
Emporia, KS 66801
316-342-7743
Fax: 316-342-7405
www.camplex.com

Canal + Technologies

85-89 Qual Andre Citron, Cedex 15
Paris, France 75711
+33-1-71715715
Fax: +33-1-71715578
www.canalplus-technologies.com
sales@canal-plus.com

CANARE

531 5th St., Suite A
San Fernando, CA 91340
818-365-2446
Fax: 818-365-0479
www.canare.com
info@canare.com

Canon Broadcast

400 Sylvan Ave
Englewood Cliffs, NJ 07632
800-321-4388; 201-816-2900
Fax: 201-816-2909
www.canonbroadcast.com
bctv@canonbroadcast.com

Canopus

711 Charcot Avenue
San Jose, CA 95131-2208
888-868-2533; 408-954-4500
Fax: 408-954-4504
www.justedit.com
info@canopus.com

Carlson

120 Montgomery St, Suite 900
San Francisco, CA 94104
415-677-0141
Fax: 415-677-0145
www.carlsonolutions.com

Cartoni USA

4545 Industrial St. Unit 5B
Simi Valley, CA 93063
888-227-8664; 805-520-6086
Fax: 805-520-6949
www.cartoni.com
cartoniusa@aol.com

Cartworks/dbm Systems

398 Highway 51N, Suite 80-172
Ridgeland, MS 39157
800-795-7234; 601-856-9080
Fax: 601-853-9976
www.cartworks.com
gthomas@cartworks.com

Cases Plus Inc.

3130 Regional Parkway
Santa Rosa, CA 95403
800-982-1880; 707-578-8900
Fax: 707-578-9902
www.casesplus.com
sales@casesplus.com

CBT Systems

10115 Carroll Canyon Rd
San Diego, CA 92131
(858) 536-2927
Fax: (858) 536-2354
www.cbt-net.com

Central Tower Inc.

2855 Highway 261
Newburgh, IN 47630
800-664-8222; 812-853-0595
Fax: 812-853-6652
www.centraltower.com
central@centraltower.com

Century Precision Optics

11049 Magnolia Blvd
North Hollywood, CA 91601
800-228-1254; 818-766-3715
Fax: 818-505-9865
www.centuryoptics.com

Chimera

1812 Valtec Lane
Boulder, CO 80301
888-444-1812; 303-444-8000
Fax: 303-444-8303
www.chimeralighting.com

Christie Digital Systems Inc.

809 Wellington St N
Kitchener, ON, Canada N2G 447
519-744-8005
Fax: 519-749-3136
www.christiedigital.com

Chyron

5 Hub Drive
Melville, NY 11747
888 4 CHYRON; 631-845-2000
Fax: 631-845-3867
www.chyron.com
info@chyron.com

Ciprico Inc.

2800 Campus Drive
Plymouth, MN 55441
800-727-4669; 763-551-4000
Fax: 763-551-4002
www.ciprico.com
sales_inquiry@ciprico.com

CJDS DAL

1999 Broadway, Suite 4000
Denver, CO 80202-3050
888-325-5040; 303-237-4000
Fax: 303-382-1475
www.CJDS.com
DSABO@CJDS.com
See our products in the following category:
Automation Systems

Clarity Visual Systems

9025 SW Hillman Court, Suite 3122
Wilsonville, OR 97070
503-570-0700
Fax: 503-682-9441
www.clarityvisual.com
Lvielbig@clarityvisual.com

Clark Wire & Cable

1355 Armour Blvd
Mundelein, IL 60060
800-222-5348; 847-949-9944
Fax: 847-949-9595
www.clarkwc.com
sales@clarkwc.com

Clear-Com Systems

4065 Hollis St
Emeryville, CA 94608-3505
510-496-6666
Fax: 510-496-6699
www.clearcom.com
sales@clearcom.com

CMD Technology

9501 Jeronimo Road
Irvine, CA 92618
949-454-8000
Fax: 949-454-1181

Coaxial Dynamics

15210 Industrial Park
Cleveland, OH 44135
800-COAXIAL; 216-267-2233
Fax: 216-267-3142
www.coaxial.com

Coherent Communications Inc.

28245 Crocker Ave, Suite 200
Valencia, CA 91355
661-295-0300
Fax: 661-295-0090
www.cocom.com
info@cocom.com

Colossalvision

26 Broadway, Suite 666
New York, NY 10004
212-269-6333
Fax: 212-269-4334
www.colossalvision.com
info@colossalvision.com

Features:

Analog/SDI Inputs
Fixed/Configurable Displays
Channel Ident
Logo Insertion
Widescreen Support

Options:

Scheduler & Sequencer
Ethernet Remote Control
Audio Switching
UMD & Tally Status Display



Innovative MultiViewer Solutions

Broadcast Multi-Channel Monitoring
in studios, Control rooms, OB Vans
Mosaic/Barker Channels
for CATV service promotions
Video Server output "Confidence Channels"
Low-cost 2D DVE
Events/Corporate Presentation Displays

Zandar
TECHNOLOGIES

Ireland Tel: +353 1 2808 945
Email: sales@zandar.com
USA Tel: +408 782 9725
Email: advancedms@msn.com

www.zandar.com

Circle (157) on Free Info Card

CommScope

1375 Lenoir Rhyne Blvd
Hickory, NC 28603
800-982-1708; 828-324-2200
Fax: 828-328-3400
www.commscope.com

Communications Engineering Inc. (CEI)

8500 Cinder Bed Rd, Suite 100
Newington, VA 22122
703-550-5800
Fax: 703-550-5180
www.commeng.com
slewis@commeng.com

Comprehensive Video Group

55 Ruta Court, P.O. Box 3171
South Hackensack, NJ 07606
800-526-0242;
Fax: 201-814-0510
www.compvideo.com

Comprompter

1707 Main St, Suite 113 Grandview
Center
LaCrosse, WI 54601
800-785-7765; 608-785-7766
Fax: 608-784-5013
www.enrnews.com

Computer Engineering Associates Inc.

8227 Cloverleaf Dr, Suite 308
Millersville, MD 21108
410-987-7003
Fax: 410-987-6710
www.ceanews.com
ceanews@erols.com

Computer Engineering Inc.

385 West 2880 South
Salt Lake City, UT 84115
801-485-8420
Fax: 801-485-8616
www.tv-automation.com
smurphy@tv-automation.com

Comrex Corp.

65 Nonset Path
Acton, MA 01720
800-237-1776; 978-263-1800
Fax: 978-635-0401
www.comrex.com
info@comrex.com

Comtech Antenna Systems Inc.

3100 Communications Road
St. Cloud, FL 34769
407-892-6111
Fax: 407-892-0994
www.comtechsystems.com

COMTEK Inc.

357 W 2700 S
Salt Lake City, UT 84115
800-496-3463; 801-466-3463
Fax: 801-484-6906
www.comtek.com
sales@comtek.com

Control Concepts Corp./Liebert

P.O. Box 1380, 328 Water St
Binghamton, NY 13902-1380
800-288-6169; 607-724-2484
Fax: 607-722-8713
www.control-concepts.com
cconcepts@control-concepts.com

Cool-Lux

412 San Pablo, Suite 200
Camarillo, CA 93012
800-ACDC-LUX; 805-482-4820
Fax: 805-482-0736
www.cool-lux.com
coolux@cool-lux.com

Cooper Sound Systems Inc.

1411 Marsh St., Suite 105
San Luis Obispo, CA 93401
805-927-8521
Fax: 805-927-8565
www.coopersound.com

Coptervision

7625 Hayvenhurst Ave, Suite 36
Van Nuys, CA 91406
818-782-6673
Fax: 818-782-4070
www.coptervision.com
coptervision@pacificnet.net

CPC/Computer Prompting & Captioning Co

1010 Rockville Pike, Suite 306
Rockville, MD 20852-1419
800-977-6678; 301-738-8487
Fax: 301-738-8488
www.cpcweb.com
info@cpcweb.com

CPI Eimac Division

301 Industrial Road
San Carlos, CA 94070
800-414-TUBE; 650-592-1221
Fax: 650-592-9988
www.eimac.com
powergrid@eimac.cpii.com
*See our products in the following category:
RF Feedline, Components & Towers*

CPI Satcom Division

P.O. Box 51625
Palo Alto, CA 94303
650-846-3700
Fax: 650-424-1744
www.cpii.com/satcom
marketing@satcom.cpii.com

Crestron

101 Broadway
Cresskill, NJ 07626
888-CRESTRON; 201-894-0660
Fax: 201-894-1192
www.crestron.com

Crispin Corporation

312 West Millbrook, Suite 113
Raleigh, NC 27609
919-845-7744
Fax: 919-845-7766
www.crispincorp.com
sales@crispincorp.com

Crouse-Kimzey

1320 Post and Paddock Rd, Suite 200
Grand Prairie, TX 75050
800-433-2105; 972-343-9231
Fax: 972-623-2800
www.proaudio.com
sales@proaudio.com

D.Co Marketing Inc.

26072 Merit Circle, Suite 126
Laguna Hills, CA 92653
949-366-8200
Fax: 949-366-6360
www.d-co.com

Dalet Digital Media Systems

50 Broadway, Suite 1500
New York, NY 10004
212-825-3322
Fax: 212-825-0182
www.dalet.com
sales@us.dalet.com

Dan Dugan Sound Design

290 Napoleon St
San Francisco, CA 94124
415-821-9776
Fax: 415-826-7699
www.dandugan.com
dan@dandugan.com

Datatek Corp.

1121 Bristol Rd
Mountainside, NJ 07092
800-882-9100; 908-654-8100
Fax: 908-232-6381

Dataworld Inc.

P.O. Box 30730
Bethesda, MD 20824
800-368-5754; 301-652-8822
Fax: 301-656-5341
www.dataworld.com

Davicom Technologies

5295 St. Joseph Street
Trois-Rivieres, QC, Canada G8Z 4M5
300-465-4343; 819-370-4343
Fax: 819-370-4353
www.davicom.com
info@davicom.com

DawnCo

3340 S Lapeer Rd
Orion, MI 48359
248-391-9200
Fax: 248-391-9207
www.Dawnco.com
ales@Dawnco.com

De Sisti Lighting

109 Grand Ave
North Bergen, NJ 07047
201-319-1100
Fax: 201-319-1104
www.desisti.it

Dedotec USA Inc.

116 Little Falls Rd
Cedar Grove, NJ 07009
973-857-8118
Fax: 973-857-3756
www.dedolight.com
info@dedolight.com

Denon Electronics

11 Chapin Road, Building C
Fair Brook, NJ 07058-9777
973-396-0810
Fax: 973-396-7459
www.del.denon.com

Dialight

1913 Atlantic Ave
Manasquan, NJ 08736
732-223-9400
Fax: 732-223-8788
www.dialight.com

Dielectric Communications

22 Tower Rd
Raymond, ME 04071
800-341-9678; 207-655-4555
Fax: 207-655-7120
www.dielectric.com
dcsales@dielectric.com

Digram

2101 Wilson Boulevard
Arlington, VA 22201
703-875-9100
Fax: 703-875-9161
www.digram.com
input@digram.com

Digital Audio Research Ltd

2 Silverglade Bus Park, Leatherhead Rd
Chessington, Surrey, UK KT9 2QL
+44 1372 742848
Fax: +44 1372 743532
www.dar.uk.com
mail@dar.uk.com

NOVA
does it again!



\$995
(direct price)

SM 2000

Time Base Corrector

and Frame Synchronizer



NOVA
SYSTEMS
SHINTON

CALL TO PLACE ORDER or for catalog
1280 Blue Hills Avenue
Bloomfield, CT 06002 USA
800-358-NTSC www.nova-sys.com

Circle (158) on Free Info Card

Discreet Logic

10 Duke Street
Montreal, QC, Canada H3C 2L7
800-869-3504; 514-272-0525
Fax: 800-305-6442
www.discreet.com
See our products in the following categories: Computers & Peripherals; Production Switchers & Effects; Video Editing Systems

DNF Controls

9970 Glenoaks Blvd. Suite D
Sun Valley, CA 91352
818-252-0198
Fax: 818-252-0199
www.dnfcontrols.com
See our products in the following categories: Automation Systems; Computers & Peripherals; Production Switchers & Effects; Video Accessories; Video Routing & Distribution; Video Servers & Storage

Dolby Laboratories Inc.

100 Potrero Ave
San Francisco, CA 94103-4813
800-33-DOLBY; 415-558-0200
Fax: 415-863-1373
www.dolby.com
info@dolby.com

Doremi Labs Inc.

306 E. Alameda Ave.
Burbank, CA 91502
818-562-1101
Fax: 818-562-1109
www.doremilabs.com

Dorrough Electronic

5221 Collier Place
Woodland Hills, CA 91364
818-998-2824
Fax: 818-998-1507
www.dorrough.com
dorroughel@aol.com

DPA Microphones

Hejrevang 11
Allerod, Denmark DK-3450
+45 4814 2828
Fax: +45 4814 2700
www.dpamicrophones.com
info@dpamicrophones.com

DPS Digital Processing System

11 Spiral Drive
Florence, KY 41042
800-775-3314; 859-371-5533
Fax: 859-371-3729
www.dps.com
Sales-us@DPS.com
See our products in the following categories: Multimedia, CD-ROM & Internet Development; TBCs, Frame Syncs & Conversion Equipment; Video Editing Systems; Video Routing & Distribution

DST - Digital System Technology Inc.

16027 Arrow Highway, Suite D
Irwindale, CA 91706
626-472-7701
Fax: 626-472-7710
www.dstech.com

Dwight Cavendish Developments LTD.

Vincent House Arlington Road
St. Neots, Cambs, UK PE19 6YH
+44 1480 215 753
Fax: +44 1480 474 525
www.dwightcav.com

EASI-SET

P.O. Box 300
Midland, VA 22728
800-547-4045; 540-439-8911
Fax: 540-439-1232
www.easi-set.com
easiset@mnsinc.com

Econco Inc.

1318 Commerce Ave
Woodland, CA 95776
800-532-6626; 530-662-7553
Fax: 530-666-7760
www.econco.com

Editing Technologies Corp.

624 N Victory Blvd
Burbank, CA 91502
818-840-1101
Fax: 818-556-3973
www.etcedit.com
sale@etcedit.com

Editware

200 Litton Drive, Suite 308
Grass Valley, CA 95945
530-477-4300
Fax: 530-477-4304
www.editware.com

EDX Engineering Inc.

P.O. Box 1547
Eugene, OR 97440-1547
541-345-0019
Fax: 541-345-8145
www.edx.com
info@edx.com

EEG Enterprises Inc.

586 Main Street
Farmingdale, NY 11735
516-293-7472
Fax: 516-293-7417
www.eegent.com

Egripment

7625 Hayvenhurst Ave., Unit 27
Van Nuys, CA, USA 91406
818-787-4295
Fax: 818-787-6195
www.egripment.com
egripment@egripment.com

Electronic Systems Integration

4315 Woodland Park Dr, Suite 104
West Melbourne, FL 32904
321-956-0095
Fax: 321-956-0610
www.esi-inc.com

Electrophysics Corporation

373 Route 46 W
Fairfield, NJ 07004
800-759-9577; 973-882-0211
Fax: 973-882-0997
www.electrophysics.com

Electrorack Products Co

1443 S Sunkist
Anaheim, CA 92806
714-776-5420
Fax: 714-776-9683
www.electrorack.com
sales@electrorack.com

Electrosonic Systems Inc.

10320 Bren Rd E
Minnetonka, MN 55343
800-328-6202; 952-931-7500
Fax: 952-938-9311
www.electrosonic.com

Elmo Mfg Corp.

1478 Old Country Road
Plainview, NY 11803
800-947-3566; 516-775-3200
Fax: 516-775-3297
www.elmo-corp.com

EMC Corporation

171 South Street
Hopkinton, MA 01748
508-435-1000
Fax: 508-497-8003
www.emc.com

EMCEE Broadcast Products

P.O. Box 68
White Haven, PA 18661
800-233-6193; 570-443-9575
Fax: 570-443-9257
www.emceebird.com
emceebird@emceebird.com
See our products in the following category:
TV Transmitters, Translators, Exciters &
Antennas

ENCO Systems

24555 Hallwood Court
Farmington Hills, MI 48335-1667
800-362-6797; 248-476-5711
Fax: 248-476-5712
www.enco.com
support@enco.com

Encoda Systems

1999 Broadway, Suite 4000
Denver, CO 80202-3050
303-237-4000
Fax: 303-237-0085
www.encodasystems.com
info@encodasystems.com

E-N-G Mobile Systems Inc.

2245 Via De Mercados
Concord, CA 94520
800-662-4522; 925-798-4060
Fax: 925-798-0152
www.e-n-g.com
engsales@e-n-g.com

Ensemble Designs

P.O. Box 993
Grass Valley, CA 95945
530-478-1830
Fax: 530-478-1832
www.ensembledesigns.com
info@endes.com

Equi=Tech Corp.

P.O. Box 249
Selma, OR 97538
541-597-4448
Fax: 541-597-4099
www.equitech.com
rhf@equitech.com

ERI-Electronics Research

7777 Gardner Rd
Chandler, IN 47610
812-925-6000
Fax: 812-925-4030
www.ERInc.com

ESE

142 Sierra St
El Segundo, CA 90245
310-322-2136
Fax: 310-322-8127
www.es-web.com
ESE@ese-web.com
See our products in the following categories:
Duplication Equipment; Studio &
Facility Accessories; Test & Measurement
Equipment; Video Accessories; Video Routing
& Distribution

Simultaneous 4:3 & 16:9 Production

The Real Shape of DTV

SYNERGY SERIES
DIGITAL PRODUCTION SWITCHERS

The
DTV
SWITCHER

ROSS

Tel: (613) 652-4886
Fax: (613) 652-4425
solutions@rossvideo.com

www.rossvideo.com

Circle (159) on Free Info Card

e-Studio LIVE (formerly EchoLabs)

21 Alpha Road
Chelmsford, MA 01824
978-250-3334
Fax: 978-250-3335
www.e-studiolive.com

Eurologic

1300 Massachusetts Avenue
Boxborough, MA 01719
978-266-9224
Fax: 978-266-9228
www.eurologic.com
info@eurologic.com

Evertz Microsystems Ltd

3465 Mainway
Burlington, ON, Canada L7M 1A9
905-335-3700
Fax: 905-335-3573
www.evertz.com

See our products in the following categories: Production Switchers & Effects; TBCs, Frame Syncs & Conversion Equipment; Video Accessories; Video Routing & Distribution; Wire, Cable & Connectors

Excalibur Technologies

1921 Gallows Drive, Suite 200
Vienna, VA 22182
800-788-7758; 703-761-3700
Fax: 703-761-1990
www.excalib.com

Exeltech

2225 East Loop 280 N
Ft Worth, TX 76118
800-886-4683; 817-595-4969
Fax: 817-595-1290

Extron Electronics

1230 S Lewis St
Anaheim, CA 92805
800-633-9876; 714-491-1500
Fax: 714-491-1517
www.extron.com
support@extron.com
See our products in the following categories: TBCs, Frame Syncs & Conversion Equipment; Test & Measurement Equipment; Video Monitors, Projectors & Accessories; Video Routing & Distribution; Wire, Cable & Connectors

Fairlight USA

3855 Hughes Avenue, 2nd Floor
Culver City, CA 90232
800-4-FAIRLIGHT; 310-287-1400
Fax: 323-465-0080
www.fairlightesp.com.au
mail@fairlightesp.com.au

Faroudja

750 Palomar Ave
Sunnyvale, CA 94085
408-735-1492
Fax: 408-735-1571
www.faroudja.com
sales@www.faroudja.com
See our products in the following categories: TBCs, Frame Syncs & Conversion Equipment; Video Monitors, Projectors & Accessories

Fast Forward Video

18200-B W McDermott
Irvine, CA 91502
949-852-8404
Fax: 949-852-1226
www.ffv.com
kevin@ffv.com

FAST Multimedia

109 South Duncan Road
Champaign, IL 61821-2817
800-249-FAST; 217-356-1884
Fax: 217-356-1881
www.fastsalesus.com
info@fastsalesus.com

FloriCal Systems Inc.

4581-A NW 6th Street
Gainesville, FL 32609
352-372-8326
Fax: 352-375-0859
www.florical.com

Folsom Research

11101 A Trade Center Drive
Rancho Cordova, CA 95670
888-414-SCAN; 916-859-2500
Fax: 916-859-2515
www.folsom.com
sales@folsom.com

See our products in the following categories: TBCs, Frame Syncs & Conversion Equipment; Video Routing & Distribution

For-A Corporation of America

2400 NE Waldo Road
Gainesville, FL 32609
352-371-1505
Fax: 352-378-5320
www.for-a.co.jp
Morris@for-a.co.jp

Force Inc.

825 Park St., P.O. Box 2045
Christianburg, VA 24073
800-732-5252; 540-382-0462
Fax: 540-381-0392
www.forceinc.com

Forecast Consoles Inc.

367 C Bay Shore Road
Deer Park, NY 11729
800-735-2070; 631-253-9000
Fax: 631-253-0277
www.forecast-consoles.com
info@forecast-consoles.com
See our products in the following category: Studio & Facility Accessories

Fortel DTV

250 14th St NW, Suite 4022
Atlanta, GA 30318
800-530-5542; 404-885-9555
Fax: 404-885-1501
www.forteldtv.com
chris.smith@forteldtv.com

Frezzi Energy Systems

5 Valley St
Hawthorne, NJ 07506
800-345-1030; 973-427-1160
Fax: 973-427-0934
www.frezzi.com

Frontline Communications

12770 44th Street N
Clearwater, FL 33762-4713
727-573-0400
Fax: 727-571-3295
www.frontlinecomm.com
corp@frontlinecomm.com

Fujinon Broadcast & Communications Products Div

10 High Point Drive
Wayne, NJ 07470
800-553-6611; 973-633-5600
Fax: 973-633-5216
www.fujinon.com
See our products in the following category: Lenses & Accessories

Full Compass Systems Ltd

8001 Terrace Ave
Middleton, WI 53562
800-356-5844; 608-831-7330
Fax: 608-831-6330
www.compassxpress.com

Furman Sound

1997 S McDowell Blvd
Petaluma, CA 94954
707-763-1010
Fax: 707-763-1310
www.furmansound.com
info@furmansound.com

Garner

4200 N 48th St
Lincoln, NE 68504
800-228-0275; 402-434-9100
Fax: 402-434-9133
www.garnerindustries.com
smclain@garnerindustries.com

Genelec Oy

Olivitie 5
FIN-74100 Iisalmi, Finland
+358 17 81 3311
Fax: +358 17 812267
www.genelec.com

Genum Corporation

P.O. Box 489, Station A
Burlington, ON, Canada L7R 3Y3
800-263-9353; 905-632-2996
Fax: 905-632-5946
www.gennum.com
info@gennum.com

Gentner Communications Corp.

1825 Research Way
Salt Lake City, UT 84119
800-945-7730; 801-975-7200
Fax: 801-977-0087
www.gentner.com
ocastinfo@gentner.com

Gepco International

1770 Birchwood Ave
Des Plaines, IL 60018
800-966-0069; 847-795-9555
Fax: 847-795-8770
www.gepco.com
gepco@gepco.com
See our products in the following category:
Wire, Cable & Connectors

Getris Images

21st de Grenoble 4403
Meylan Cedex, France F-38944
+33 76 909777
Fax: +33 76 907234
www.getris.com

Portable Mast Serves Multiple Vehicles!



Hilomast Rapid Deployment Unit

- Extends up to 40 feet
- Easily clamps to the vehicle's gutter or to a vehicle roof rack.
- Vehicle weight holds the foot of the mast in place.

Enjoy the benefits of a telescoping pneumatic mast without making it a permanent feature. Carry the mast on the roof. Quickly erect upon reaching desired location.

Contact Jim Osborne for competitive pricing.

ALLEN OSBORNE ASSOC., INC.
Tel: (805) 495-8420 • www.aoa-gps.com



Circle (160) on Free Info Card

Global Microwave Systems

4141 Avenida de la Plata
Oceanside, CA 92056
760-631-8021
Fax: 760-631-8031
www.gmsinc.com
gms@gmsinc.com

Global Telemann Systems, Inc.

2345 Harris Way
San Jose, CA, USA 95131
408-435-9275
Fax: 408-435-9276
www.telemann.com
usa@telemann.com

Gorman-Redlich Mfg Co

257 Union St
Athens, OH 45701
740-593-3150
Fax: 740-592-3898
www.gorman-redlich.com
jim@gorman-redlich.com

Grass Valley Group

400 Providence Mine Rd.
Nevada City, CA 95945
800-824-5127; 800-547-8949
Fax: 530-487-3755
www.grassvalleygroup.com



Grass Valley Telecom

P.O. Box 1649
Grass Valley, CA 95945
530-477-8200
Fax: 530-477-8208
www.gvtelecom.com

GYRON Systems

39 E. Walnut Street
Pasadena, CA 91103
626-584-8722
Fax: 626-584-4069
www.gyron.com

H L Dalis Inc.

35-35 24th St
Long Island City, NY 11106
800-453-2547; 718-361-1100
Fax: 718-392-7654
www.werbroadcast.com

Hafler Professional

2055 E 5th Street
Tempe, AZ 85281
888-HAFLER1; 480-517-3157
Fax: 480-894-1528
www.hafler.com
sales@hafler.com



Hamlet Video International Ltd

Orchard House Amersham Road
Chesham Bucks, UK HP5 1NE
+44 0500 625 525; +44 1494 793 763
Fax: +44 1494 791 283
www.hamlet.co.uk
sales@hamlet.co.uk

Hannay Reels

553 State Route 143
Westerlo, NY 12193
800-GO-REELS; 518-797-3791
Fax: 800-REELING
www.hannay.com
reels@hannay.com



Harmonic (formerly Divicom)

1708 McCarthy Blvd
Milpitas, CA 95035
877-348-4266; 408-490-6560
Fax: 408-490-6999
www.divi.com
info@divi.com

Harris Corporation, Broadcast Communications Div.

4393 Digital Way P.O. Box 8450
Mason, OH 45040-8450
800-622-0022; 513-459-3400
Fax: 513-459-3890
www.harris.com
broadcast@harris.com
See our products in the following categories: Audio Mixers; Automation Systems; Microphones & Accessories; Production Switchers & Effects; TBCs, Frame Syncs & Conversion Equipment; Test & Measurement Equipment; TV Transmitters, Translators, Exciters & Antennas

Harrison by GLW

1024 Firestone Parkway
La Vergne, TN 37086
615-641-7200
Fax: 615-641-7224
www.glw.com
info@glw.com

Henry Engineering

503 Key Vista Dr
Sierra Madre, CA 91024
626-355-3656
Fax: 626-355-0077
www.henryeng.com
info@henryeng.com

Herman Electronics

7350 Herman Way
Miami, FL 33122
800-938-4376; 305-477-0063
Fax: 305-392-3377
www.hermanelectronics.com
info@hermanelectronics.com

Heuris

P.O. Box 56914
St. Louis, MO 63156
800-923-9232; 314-534-1514
Fax: 314-534-4351
www.heuris.com
sales@heuris.com

Hitachi America LTD

2000 Sierra Point Pkwy
Brisbane, CA 94005
800-HITACHI;
www.hitachi.com/lcd

Hitachi Denshi America Ltd

150 Crossways Park Drive
Woodbury, NY 11797
516-921-7200
Fax: 516-496-3718
www.hdal.com

Holaday Industries Inc.

14825 Martin Dr
Eden Prairie, MN 55344
877-HOLADAY; 952-934-4920
Fax: 952-934-3604
www.holadayinc.com
info@holadayinc.com

Hoodman Corp.

P.O. Box 816
Hermosa Beach, CA 90254
800-818-3946; 310-379-6391
Fax: 310-372-6420
www.hoodmanusa.com

Horita Co Inc.

P.O. Box 3993
Mission Viejo, CA 92690
949-489-0240
Fax: 949-489-0242
www.horita.com
horita@horita.com

Hotronic Inc.

1875 S Winchester Blvd
Campbell, CA 95008
408-378-3883
Fax: 408-378-3888
www.hotronics.com

IBIS Ltd.

Orchard Neville House Baltonsborough
Glastonbury, Somerset, UK BA6 8QQ
+44 1458 851150
Fax: +44 1458 851170
www.ibistv.co.uk

IBUS/ Phoenix

3888 Balboa Avenue
San Diego, CA 92123
388-307-7892; 858-974-8400
Fax: 858-268-7863
www.ibus.com
info@ibus.com

See our products in the following category:
Computers & Peripherals

IDB Systems

3236 Skylane Drive
Carrollton, TX 75006
972-407-7700
Fax: 972-407-7787
www.idbsystems.com

IDX Technology/IKON Video

8170 Ronson Road, Suite C
San Diego, CA 92111
619-560-9779
Fax: 858-560-5075
www.idxtek.com
idxusa@idxtek.com

Ikegami Electronics (USA) Inc.

37 Brook Ave
Maywood, NJ 07607
800-368-9171; 201-368-9171
Fax: 201-569-1626
www.ikegami.com

illbruck/Sonex Acoustical Div

3800 Washington Ave N
Minneapolis, MN 55412
800-662-0032; 612-520-3620
Fax: 612-521-5639
www.illbruck-sonex.com

IMMAD ECVS

3 Mars Court
Boonton, NJ 07005
888-694-6623; 905-470-2545
Fax: 905-470-2559
www.immad.com
sales@immad.com

in:sync

7920 Norfolk Ave., 7th floor
Bethesda, MD 20814
800-864-7272; 301-656-1700
Fax: 301-320-0335
www.in-sync.com

Independent Audio/Sonifex

43 Deerfield Rd
Portland, ME 04101-1805
207-773-2424
Fax: 207-773-2422
www.independentaudio.com
info@independentaudio.com

Industrial Acoustics Co

1160 Commerce Ave
Bronx, NY 10462
718-931-8000
Fax: 718-863-1138
www.industrialacoustics.com

AUDIO CROSSPOINTS ARE NOW OBSOLETE LIGHTHOUSE DIGITAL SYSTEMS

TODD A/O

Craig Nichols
Hollywood, CA

In front of an 848 x 848 OZ
TDM & High Def Router.



Audio Products

- 1024 x 1024 TDM/DSP Routing without tie-lines. Combine digital, analog, synchronous, asynchronous and remote frame/MADI inputs in a single system...and route them to any output. Up to 60% space savings over competitive models.
- Sample rate converters on all AES inputs.
- Mix stereo to mono and vice versa.
- MADI (56 channel) or 64 channel satellite I/O.
- RS422 and Time Code I/O.

Video Products

- 64 x 128 I/O High Definition Routers with reclockers & equalization.
- 256 x 512 I/O Serial Digital Routers.
- Copper or fiber on any I/O module.

Control Products

- Hardware Control Panels, Internet control, Java/Network Control Panels, NT Server, second party control and Touch Screens.



Founders Bob & Rick Grant

Please contact us

• Lighthouse Digital Systems • 888 494 7300 • FAX 530 272 8248 • <http://www.lighousedigital.com> •

Circle (161) on Free Info Card

iNews (formerly Avstar)

6400 Enterprise Lane, Suite 200
Madison, WI 53719
608-274-8686
Fax: 608-273-5876
www.inewsroom.com
webmasters@inewsroom.com

InnovaCom

3400 Garrett Drive
Santa Clara, CA 95054
888-464-6734; 408-727-2447
Fax: 408-727-6625
www.transpeg.com
info@transpeg.com

Innovision Optics

1438 S 9 St
Santa Monica, CA 90401
310-394-5510
Fax: 310-395-2941
www.innovision-optics.com

Inscriber Technology

26 Peppler St
Waterloo, ON, Canada N2J 3C4
800-363-3400; 519-570-9111
Fax: 519-570-9140
www.inscriber.com
info@inscriber.com

Insync Communications

1410 SW Morrison St, Suite 850
Portland, OR 97205
503-221-1063
Fax: 503-221-6953
www.insync-pr.com

INTEC America

1010 El Camino Real, Suite 370
Menlo Park, CA 94025
650-327-9402
Fax: 650-328-4183
www.inteca.com
dvd@inteca.com

Intelvideo Inc.

56 W Broad St
Stamford, CT 06902
203-348-9229
Fax: 203-348-9266
www.intelvideo.com

IRDETO ACCESS

Jupiterstraat 42
2132 HD Hoofddorp, The Netherlands
+31 23 556 2222
Fax: +31 23 556 2240
www.irdetoaccess.com
mct@mindport.com

IRT Electronics Pty Ltd

26 Hotham Parade
Artarmon, NSW, Australia 2064
+61 2 94393744
Fax: +61 294397439
www.irtelelectronics
sales@irtelelectronics

Itelco USA Inc.

7575 W 103rd Avenue, Suite 110
Westminster, CO 80021-5402
303-464-8000
Fax: 303-464-8770
www.itelco-usa.com
tvsales@itelco-usa.com
See our products in the following categories: Microwave, Fiber Optic & Telco Equipment; TV Transmitters, Translators, Exciters & Antennas

ITIS - Innovation Telecommunications Image Son

Centre Espace Performance - Alphasis
35769 St. Gregoire Cedex, France
+33 (0) 2 99 23 72 20
Fax: +33 (0) 2 99 23 10 91
www.itis.fr

JK Audio

2701 N 45th Road
Sandwich, IL 60548
800-552-8346; 815-786-2929
Fax: 815-786-8502
www.jkaudio.com
info@jkaudio.com

JL Cooper Electronics

142 Arena Street
El Segundo, CA 90245
310-322-9990
Fax: 310-335-0110
www.jlcooper.com

JVC Professional Products Co

1700 Valley Rd
Wayne, NJ 07470
800-JVC-5825; 973-315-5000
Fax: 973-315-5030
www.jvc.com/pro
proinfo@jvc.com

K & H Products Ltd.

P.O. Box 246
North Bennington, VT 05257
802-442-8171
Fax: 802-442-9118
www.portabrace.com

Kathrein Inc., Scala Division

P.O. Box 4580
Medford, OR 97501
541-779-6500
Fax: 541-779-6575
www.scala.net

Keops Broadcast

1155 University St, Suite 1100
Montreal, QC, Canada H3B 3A7
514-876-2855
Fax: 514-876-3664
www.keopsbroadcast.com
info@keopsbroadcast.com

Keywest Technolgy

14563 West 96th Terrace
Lenexa, KS 66215
800-331-2019; 913-492-4666
Fax: 913-895-7496
www.keywesttechnolgy.com
See our products in the following categories: Audio Routing & Distribution; TBCs, Frame Syncs & Conversion Equipment; Test & Measurement Equipment; Video Compression Equipment; Video Monitors, Projectors & Accessories; Video Routing & Distribution

Kino Flo Inc.

10848 Cantara St.
Sun Valley, CA 91352
818-767-6528
Fax: 818-767-7517
www.kinoflo.com

Klotz Digital America

5875 Peachtree Industial Blvd, Suite 340
Norcross, GA 30092
678-966-9900
Fax: 678-966-9903
www.klotzdigital.com
klotz_digital_sales@compuserve.com

Knox Video

8547 Grovemont Circle
Gaithersburg, MD 20877
301-840-5805
Fax: 301-840-2946
www.knoxvideo.com
jeffsales@knoxvideo.com

KTech Telecommunications, Inc.

15501 5 F Mission Blvd. Suite 100
Mission Hills, CA 91345
818-361-2248
Fax: 818-270-2010
www.ktechtelecom.com
sales@ktechtelecom.com
See our products in the following categories: Test & Measurement Equipment; TV Transmitters, Translators, Exciters & Antennas; Video Servers & Storage

LARCAN Inc.

228 Ambassador Drive
Mississauga, ON, Canada L5T 2J2
905-564-9222
Fax: 905-564-9244
www.larcan.com
sales@larcan.com

Leader Instruments

6484 Commerce Drive
Cypress, CA 90630
300-645-5104; 714-527-9300
Fax: 714-527-7490
www.leaderusa.com
See our products in the following categories: Waveform Monitors/Vectorscopes; Sync/Test Generators

LeBLANC Broadcast

1390 Overlook Drive, Suite 2
Lafayette, CO 80026
303-844-1242
Fax: 303-339-4024
www.leblanc-group.com
carneval@leblanc-group.com
See our products in the following categories: RF Feedline, Components & Towers; TBCs, Frame Syncs & Conversion Equipment; TV Transmitters, Translators, Exciters & Antennas

Lectrosonics Inc.

581 Laser Road NE
Boca Rancho, NM 87124
800-821-1121; 505-892-4501
Fax: 505-892-6243
www.lectrosonics.com
sales@lectrosonics.com
See our products in the following categories: Audio Accessories; Microphones & Accessories

Lee Filters

237 North Hollywood Way
Van Nuys, CA 91505
800-576-5055; 818-238-1220
Fax: 818-238-1228
www.leefiltersusa.com

Leitch Incorporated

920 Corporate Lane
Chesapeake, VA 23320-3641
800-231-9673; 757-548-2300
Fax: 757-548-4088
www.leitch.com
leitch@leitch.com
See our products in the following categories: Automation Systems; Desktop Video; Multimedia, CD ROM & Internet Development, TBCs, Frame Syncs & Conversion Equipment; Video Routing & Distribution; Video Servers & Storage

LEL Computer Systems

33 SE 8th Street, Suite 200
Boca Raton, FL 33432
561-347-2242
Fax: 561-347-6276
www.lelcs.com
avirfl@lelcs.com

Lerro Corporation

905 Madison Ave.
Norristown, PA 19403
610-650-4100
Fax: 610-650-4110
www.lerro.com
lerrocorp@lerro.com

Lighthouse Digital Systems Inc.

13465 Colfax Highway
Grass Valley, CA 95945
800-323-8289; 530-272-8240
Fax: 530-272-8248
www.lighousedigital.com
bkeach@aol.com
See our products in the following categories: Audio Routing & Distribution; Video Routing & Distribution; Wire, Cable & Connectors

Lightning Prevention Systems

204B Cross Keys Rd
Berlin, NJ 08009-1888
856-767-7806
Fax: 856-767-7547
www.lpsnet.com
info@lpsnet.com

Lightwave Communications

261 Pepes Farm
Milford, CT 06460
800-871-9838
Fax: 203-874-0157

Actual size

Who can resist the charms of the compact, inexpensive Big VooDoo TBC?

- ▶ Composite and Y/C inputs and outputs with Genlock
- ▶ Full proc amp controls and freeze
- ▶ RS-232 interface
- ▶ Convenient 1/4 rack size

Small in size and big on value, the Big VooDoo TBC delivers all the features of any full-sized TBC. The unit features digital comb filtering, user-selectable NTSC and PAL B operations, plus much more.

Call KeyWest Technology today at 800-331-2019 or 913-492-4666 for your free Cabana Literature Kit or to learn more about our Big VooDoo TBC. Purchase Correctors. We'll help make your life a day at the beach.

World's smallest TBC for only \$795 (MSRP)

KeyWest TECHNOLOGY
www.keywesttechnology.com
800-331-2019

technically, it's a day at the beach

Circle (162) on Free Info Card

Link Electronics Inc.

2137 Rust Avenue
Cape Girardeau, MO 63703
800-776-4411; 573-334-4433
Fax: 573-334-9255
www.linkelectronics.com
link@ldd.net

Litton Electron Devices

1035 Westminister Drive
Williamsport, PA 17701
800-861-1UHF; 570-326-3561
Fax: 570-326-2903
www.littonedd.com

Logitek

5622 Edgemoor
Houston, TX 77081
877-231-5870; 713-664-4470
Fax: 713-664-4479
www.logitekaudio.com
info@logitekaudio.com

Lowe Light Mfg

140 58th Street
Brooklyn, NY 11220
800-334-3426; 718-921-0600
Fax: 718-921-0303
www.lowe.com
info@lowel.com

Lucid Technology

14926 35th Ave W
Lynnwood, WA 98037-2303
888-349-3222; 425-742-1518
Fax: 425-742-0564
www.lucidaudio.com
tech@lucidtechnology.com

Mackie Designs Inc.

16220 Wood-Red Road NE
Woodinville, WA 98072
800-898-3211; 425-487-4333
Fax: 425-487-4337
www.mackie.com

Magni Systems

22965 NW Evergreen Parkway
Hillsboro, OR 97124
800-237-5964; 503-615-1900
Fax: 503-615-1999
www.magnisystems.com
sales@magnisystems.com

Magnum Towers Inc.

9370 Elder Creek Rd
Sacramento, CA 95829
916-381-5053
Fax: 916-381-2144
www.magnumtowers.com
magnumtowers@speedlink.com



Marconi Applied Technologies

Marconi Applied Technologies

4 Westchester Plaza
Elmsford, NY 10523-1482
800-342-5338; 914-592-6050
Fax: 914-592-5148
www.marconitech.com
mtech.usa@marconi.com
See our products in the following category:
RF Feedline, Components & Towers

Martinsound, Inc.

1151 West Valley Blvd.
Alhambra, CA 91803
800-582-3555; 626-281-3555
Fax: 626-284-3092
www.martinsound.com
info@martinsound.com

MATCO Inc.

15000 Stetson Rd
Los Gatos, CA 95033
800-348-1843; 408-353-2670
Fax: 408-353-8781
www.matco-video.com

Matrox

1055 St Regis Blvd
Dorval, QC, Canada H9P 2T4
800-361-4903; 514-685-2630 x 2636
Fax: 514-685-2853
www.matrox.com/video
video.info@matrox.com

Maxell Corp. of America

22-08 Route 208
Fair Lawn, NJ 07410
800-533-2836; 201-794-5922
Fax: 201-796-8790
www.maxellpromedia.com

MCL Inc.

501 S Woodcreek Road
Bolingbrook, IL 60440-4999
630-759-9500
Fax: 630-759-5018
www.mcl.com

MCSi

401 Spence Lane
Nashville, TN 37210
615-244-3933
Fax: 209-315-5220

Medea Corporation

5701 Lindero Cyn Road, Bldg 3-100
Westlake Village, CA 91361
888 BY-MEDEA; 818-597-7645
Fax: 818-597-7643
www.medeacorp.com
sales@medeacorp.com

Media 100

290 Donald Lynch Boulevard
Marlboro, MA 01752
800-773-1770; 508-460-1600
Fax: 508-624-9384
www.media100.com



Media Concepts

2128 N Yellowwood Ave
Broken Arrow, OK 74012
918-252-3600
Fax: 918-250-115

Micro Communications

156 Harvery Rd.
Londonderry, NH 03053
800-545-0608; 603-624-4351
Fax: 603-624-4822
www.mcibroadcast.com
mcisales@sprynet.com

Microspace Communications Corp.

3100 Highwoods Blvd
Raleigh, NC 27604
919-850-4500
Fax: 919-850-4518
www.microspace.com

Microwave Radio Communications

101 Billerica Avenue, Building 6
Billerica, MA 01862-1256
800-490-5700; 978-671-5700
Fax: 978-671-5903
www.micbroadcast.com

MilesTek Inc.

1506 Interstate 35W
Denton, TX 76207-2402
800-524-7444; 940-484-9400
Fax: 940-484-9402
www.milestek.com
milestek@milestek.com

Miller Camera Support, LLC

216 Little Falls Rd
Cedar Grove, NJ 07009-1276
973-857-8300
Fax: 973-857-8188
www.millertripods.com
mfhusa@aol.com

Miller Fluid Heads

30 Hotham Parade
Artarmon, NSW, Australia 2064
+61 2 439 6377
Fax: +61 2 438 2819
www.miller.com.au

Minolta Corp.

101 Williams Drive
Ramsey, NJ 07446
888-473-2656; 201-529-6060
Fax: 201-529-6070
www.minoltausa.com

Miranda Technology

2323 Halpern
St. Laurent, QC, Canada H4S 1S3
514-333-1772
Fax: 514-333-9828
www.miranda.com
See our products in the following category:
TBCs, Frame Syncs & Conversion Equipment

Mirror Image Teleprompter

2189 Abraham Lane
Oshkosh, WI 54904
920-232-0220
Fax: 920-232-0220
www.teleprompters.com

Modulation Sciences

12A Worlds Fair Dr
Somerset, NJ 08873
800-826-2603; 732-302-3090
Fax: 732-302-0206
www.modsci.com
sales@modsci.com

Mohawk/CDT

9 Mohawk Dr
Leominster, MA 01453
800-422-9961; 978-537-9961
Fax: 978-537-4358
www.mohawk-cdt.com

Motorola Broadband Communications Sector

6450 Sequence Drive
San Diego, CA 92121
888-800-8346; 858-455-1500
Fax: 858-404-2443
www.mot.com
mstein@gi.com

MSC Electronics LTD.

2615 126th Ave SW
Calgary, AB, Canada T2W 3V5
800-663-0842; 403-238-6911
Fax: 403-281-2695
www.msc.ca
wrice@msc.ca

MSE Matthews Studio Equipment, Inc.

2405 Empire Ave
Burbank, CA 91504
800-237-8263; 818-843-6715
Fax: 323-849-1525
www.matthewsgrip.com

Multidyne Video & Fiber Optic Systems

191 Forest Ave
Locust Valley, NY 11560
800-4TV-TEST; 516-671-7278
Fax: 516-671-3362
www.multidyne.com
info@multidyne.com
See our products in the following categories: Audio Routing & Distribution; Computers & Peripherals; Microwave, Fiber Optic & Telco Equipment; Test & Measurement Equipment; Video Routing & Distribution

MYAT Inc.

380 Chestnut St (P.O. Box 425)
Norwood, NJ 07648-0425
201-767-5380
Fax: 201-767-4147
www.myat.com
sales@myat.com

Nady Systems Inc.

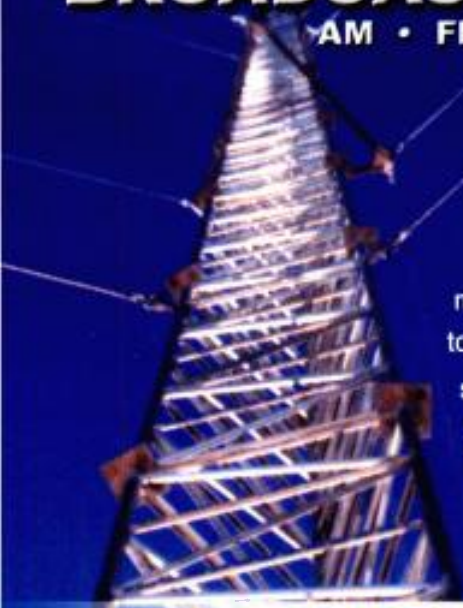
6701 Shellmound St
Emeryville, CA 94608
510-652-2411
Fax: 510-652-5075
www.nadywireless.com
ussales@nadywireless.com

Nagra USA

240 Great Circle Road, Suite 326
Nashville, TN 37228
800-813-1663; 615-726-5191
Fax: 615-726-5189
www.nagra.com
contact@nagra.com

BROADCAST TOWERS

AM • FM • TV



As one of the
largest tower
manufacturers in the
country, we designed and
manufactured more than 2,000
towers last year for hundreds of
satisfied customers.

Call to see why Sabre is
"Built to a Higher Standard."



"Built to a Higher Standard"

Sabre Communications Corporation • 2101 Murray Street • P.O. Box 658 • Sioux City, IA 51102
Phone (712)258-6690 • Fax (712)258-8250

1-800-369-6690 • www.sabrecom.com

Circle (163) on Free Info Card

Radamec

20 North Fourth Avenue
Highland Park, NJ 08904
877-RADAMEC; 732-246-0906
Fax: 732-448-1184

www.radamec.com
radamecinc@netscape.net

See our products in the following categories: Camera Robotics & Virtual Sets; Cameras & Accessories

Radyne Comstream Corporation

3138 East Elwood
Phoenix, AZ 85034
602-437-9620
Fax: 602-437-4811
www.radynecomstream.com
sales@radynecomstream.com

Rane Corporation

10802 47th Avenue West
Mukilteo, WA 98275-5098
425-355-6000
Fax: 425-347-7757
www.rane.com
info@rane.com

RCI Custom Products

5615 Fishers Lane
Rockville, MD 20852
800-546-4234; 301-984-2202
Fax: 301-984-9473
www.rcicustom.com
plates@rcicustom.com

RCS

12 Water Street
White Plains, NY 10601
914-428-4600
Fax: 914-428-5922
www.rcsworks.com
info@rcsworks.com

RDL (Radio Design Labs)

4180 Via Real, Suite E
Carpenteria, CA 93013
800-281-2683; 805-684-5415
Fax: 805-684-9316
www.rdl.net
sales@rdlnet.com

Rees Associates Inc.

3817 NW Expressway, Suite 500
Oklahoma City, OK 73112
405-942-7337
Fax: 405-948-1261
www.rees-associates.com
why@rees-associates.com

**RFS Broadcast
(Radio Frequency Systems)**

59 Dodge Avenue
North Haven, CT 06473
203-239-3311
Fax: 203-239-9260
www.rfsbroadcast.com

See our products in the following categories: TV Transmitting Antennas; RF Combiners; Transmission Lines

RF Specialties

22406 NE 159 St
Kearney, MO 64060
816-628-5959
Fax: 816-628-4508
www.rfspec.com

RF Technology Inc.

16 Testa Place
South Norwalk, CT 06854
800-762-4369; 203-866-4283
Fax: 203-853-3513
www.rftechnology.com
sales@rftechnology.com

Richardson Electronics

40W267 Keslinger Road, P.O. Box 393
LaFox, IL 60147
800-348-5580; 630-208-2200
Fax: 630-208-2550
www.rell.com
rfw@rell.com

Rip-Tie Inc.

P.O. Box 77394
San Francisco, CA 94107
800-348-7600; 415-543-0170
Fax: 415-777-9868
www.riptie.com
info@riptide.com

Rohde & Schwarz

7150-K Riverwood Drive
Columbia, MD 21046
(301) 459-8800
Fax: (301) 459-2810
www.rsd.de
See our products in the following category: Test & Measurement Equipment

ROHN Industries, Inc.

P.O. Box 2000
Peoria, IL 61656
800-225-7646; 309-697-4400
Fax: 309-697-5612
www.rohnnet.com
mail@rohnnet.com

Rorke Data Inc.

9700 W 76th St
Eden Prairie, MN 55344
800-328-8147; 612-829-0300
Fax: 612-829-0988
www.rorke.com/vs
bherzan@rorke.com

ROSCO/Entertainment Technology

2181 NW Front Avenue
Portland, OR 97209
800-223-9477; 503-222-9944
Fax: 503-227-1562
www.rosco-et.com
sales@rosco-et.com

Roscor Corp.

1061 Feehanville Drive
Mt. Prospect, IL 60056
800-843-3679; 847-299-8080
Fax: 847-299-4206
www.rosco.com
sales@rosco.com

Ross Video Ltd

P.O. Box 22, 8 John St.
Iroquois, ON, Canada K0E 1K0
613-652-4886
Fax: 613-652-4425
www.rossvideo.com
See our products in the following categories: Production Switchers & Effects; TBCs; Frame Syncs & Conversion Equipment; Video Routing & Distribution

RPG Diffusor Systems Inc.

651-C Commerce Drive
Upper Marlboro, MD 20772
301-249-0044
Fax: 301-249-3912

RTI-Research Technology Intl.

4700 Chase Ave
Lincolnwood, IL 60712
800-323-7520; 847-677-3000
Fax: 847-677-1311
www.rtico.com
sales@rtico.com

Rules Service Company

7615 Standish Place
Rockville, MD 20855
301-424-9402
Fax: 301-762-7853
www.ruleserv.com
ruleone@starpower.net

Russ Berger Design Group

4006 Beltline, Suite 160
Addison, TX 75001
972-661-5222
Fax: 972-934-3935
www.rbdg.com
nancy@rbdg.com

Sabine Inc.

13301 Highway 441
Alachua, FL 32615-8544
300-626-7394; 904-418-2000
Fax: 904-418-2001
www.Sabine.com
sabine@SabineUSA.com

Sabre Communications

2101 Murray St.
Sioux City, IA 51102
800-369-6690; 712-258-6690
Fax: 712-258-8250
www.sabrecom.com

SADiE Inc.

2218 MetroCenter Blvd
Nashville, TN 37228
615-327-1140
Fax: 615-327-1699
www.sadie.com
sales@sadie.com

SAN Valley Systems Inc.

2105 S. Bascom Avenue, Suite 195
Campbell, CA 95008
877-726-8559; 408-559-6888
Fax: 408-626-1250

Sanken Microphones

155 N LaBrea Ave
West Hollywood, CA 90038
323-845-1155
Fax: 323-845-1170
www.promediaaudio.com
dtd@aidinc.com

Sarnoff Corporation

201 Washington Road, CN 5300
Princeton, NJ 08543-5300
609-734-3178
Fax: 609-734-2040
www.sarnoff.com

ScheduALL by VizuAll Inc.

20377 NE 15th Court
Miami, FL 33129
800-334-5083; 305-651-6241
Fax: 305-653-1355
www.scheduall.com

Scientific Atlanta

Scientific-Atlanta

4317-B Park Dr.
Norcross, GA 30093
770-903-5000
Fax: 770-903-4617
www.sciatl.com

SeaChange International

124 Acton Street
Maynard, MA 01754
978-897-0100
Fax: 978-897-0132
www.schange.com

Selco Products Co

709 N. Poplar St.
Orange, CA 92868-1013
800-257-3526; 714-712-6200
Fax: 714-712-6222
www.selcoproducts.com
sales@selcoproducts.com

Sencore Electronics

3200 Sencore Drive
Sioux Falls, SD 57107
800-SENCORE; 605-339-0100
Fax: 605-367-1006
www.sencore.com

Sennheiser Electronics

One Enterprise Drive
Old Lyme, CT 06371
860-434-9190
Fax: 860-434-9022
www.sennheiserusa.com
lit@sennheiserusa.com

SGI (Silicon Graphics)

1600 Amphitheatre Parkway
Mountain View, CA 94043
800-800-7441; 650-960-1980
Fax: 650-933-0819
www.sgi.com/go/broadband
See our products in the following categories: Automation Systems; Computers & Peripherals; Video Servers & Storage



Fiber Optic Camera Cable and Assemblies

Gepco's new HDC920 hybrid fiber optic camera cable is designed for High Definition cameras that utilize the new SMPTE optical fiber format. It features the low loss of optical fiber, along with the performance that Gepco camera cable is known for.

- Flexible and UL rated versions
- Strength member for added durability
- Tested for optical return and insertion loss
- Terminated assemblies or bulk cable
- SMPTE 311M and 304M compliant

GEPCO
INTERNATIONAL, INC.

Tactical fiber for HD & DTV remote optical systems also available

1-800-966-0069 www.gepco.com email: gepco@gepco.com

Circle (167) on Free Info Card

Shively Labs

P.O. Box 389
Bridgton, ME 04009
888-SHIVELY; 207-647-3327
Fax: 207-647-8273
www.shively.com
sales@shively.com

Shook Electronics USA Inc.

18975 Marbach Lane Bldg 200
San Antonio, TX 78266
888-651-5775; 210-651-5700
Fax: 210-651-5220
www.shook-usa.com
shook@shook-usa.com

Shure Inc.

222 Hartrey Ave
Evanston, IL 60202
800-25-SHURE; 847-866-2200
Fax: 847-866-2279
www.shure.com
sales@shure.com



Side Effects Software

477 Richmond West, Suite 1001
Toronto, ON, Canada M5V 3E7
416-504-9876
Fax: 416-504-6648
www.sidefx.com
info@sidefx.com

Sierra Design Labs

3427 Goni Road
Carson City, NV 89706
800-400-8002; 775-886-5050
Fax: 775-886-5060
www.sdlabs.com
info@sdlabs.com

Sierra Video Systems

P.O. Box 2462
Grass Valley, CA 95945
530-478-1000
Fax: 530-478-1105
www.sierravideo.com
info@sierravideo.com

Sigma Designs, Inc.

355 Fairview Way
Milpitas, CA 95035
408-262-9003
Fax: 408-957-9740
www.sigmadesigns.com

Sigma Electronics

P.O. Box 448
East Petersburg, PA 17520-0448
717-569-2681
Fax: 717-569-4056
www.sigmaelectronics.com
eric@sigmaelectronics.com

Silicon Valley Power Amplifiers

115 Phelan Ave Unit 10
San Jose, CA 95112
800-986-9700; 408-986-9700
Fax: 408-986-1438
www.svpa.com
sales@spva.com

Snell & Wilcox

2225-I Martin Ave
Santa Clara, CA 95050
408-260-1000
Fax: 408-260-2800
www.snellwilcox.com
info@snellamerica.com
See our products in the following categories: Production Switchers & Effects; TBCs, Frame Syncs & Conversion Equipment; Video Routing & Distribution

Softimage

3510 Blv. St Laurent, Suite 400
Montreal, QC, Canada H2X 2V2
800-576-3846; 818-365-1359
Fax: 514-845-5676
www.softimage.com

Solid State Logic Inc.

320 W 46th St
New York, NY 10036-8398
212-315-1111
Fax: 212-315-0251
www.solid-state-logic.com
sales@solid-state-logic.com

Solutions Custom Furnishings

9930 Painter Ave
Whittier, CA 90605
562-906-9000
Fax: 562-906-9100
www.solutionscfi.com
solcf@msn.com

Sonic Foundry

754 Williamson Street
Madison, WI 53703
608-256-3133
Fax: 608-256-7300
www.sonicfoundry.com

Sonic Solutions

101 Rowland Way
Novato, CA 94945
888-Sonic-4U; 415-893-8000
Fax: 415-893-8008
www.sonic.com
info@sonic.com

SONY

Sony Electronics

One Sony Drive
Park Ridge, NJ 07656
800-686-SONY; 201-930-1000
Fax: 201-930-4752
www.sony.com/professional
See our products in the following categories: Audio Accessories; Audio Routing & Distribution; Film Equipment; TBCs, Frame Syncs & Conversion Equipment; Video Editing Systems; Video Monitors, Projectors & Accessories; Video Routing & Distribution; Video Servers & Storage

Sony Electronics Inc./ Media Solutions Co.

680 Kinderkamack Rd
Oradell, NJ 07649-1601
201-599-3470
Fax: 201-599-3449
www.sel.sony.com/sel/msc

Spacewise Broadcast Furniture Inc.

P.O. Box 62021
Phoenix, AZ 85082
800-775-3660; 480-704-9385
Fax: 480-704-6149
www.spacewise.com
info@spacewise.com

SpectraSite Broadcast Group

5601 N. MacArthur Blvd.
Irvine, TX 75038
972-550-9500
Fax: 972-550-9595
www.spectrasite.com

Spencer Technologies

9980-B Glen Oaks Blvd
Sun Valley, CA 91352
818-771-1850
Fax: 818-771-1855
www.spencer-tech.com

Spruce Technologies Inc.

1054 South De Anza Blvd, Suite 200
San Jose, CA 95129
408-861-2200
Fax: 408-863-9701
www.spruce-tech.com

Staco Energy Products Co

301 Gaddis Blvd
Dayton, OH 45403
937-253-1191
Fax: 937-253-1723
www.stacoenergy.com
sales@stacoenergy.com

Standard Communications Corp.

1111 Knox Street
Torrance, CA 90502
310-532-5300
Fax: 310-532-0397
www.standardcomm.com

Starlink Inc.

1329 Meadow Road
Lehigh, FL 33971
800-7-UPLINK; 941-368-4141
Fax: 941-368-6703
www.starlinkinc.com
starlinkinc@mindspring.com

Storage Concepts Inc.

14352 Chambers Road
Tustin, CA 92780
800-525-9217; 949-852-8511
Fax: 949-852-8930
www.storageconcepts.com
info@storageconcepts.com

Studer Professional Audio AG

Althardstrasse 30
Regensdorf, Zurich CH-8105
+41 1 870 75 11
Fax: +41 1 870 71 34
www.studer.ch
sales@studer.ch

Studio Technology

32 Pennsylvania Ave.
Malvern, PA 19355
800-676-0216; 610-640-1229
Fax: 610-296-3402
www.studiotechnology.com
sales@studiotechnology.com

Sun Microsystems/Interactive Services

201 San Antonio Road
Palo Alto, CA 94303
650-969-1300
Fax: 650-473-7101
www.sun.com

Sundance Digital Inc.

4500 Fuller Drive, Suite 205
Living, TX 75038
972-444-8442
Fax: 972-444-8450
www.SundanceDigital.com
sales@SunDig.com

Superior Broadcast Products

17194 Preston Road, Suite 123-297
Dallas, TX 75248
800-279-3326; 972-473-2577
Fax: 800-644-5958
www.superiorbroadcast.com
jjoynt@superiorbroadcast.com

Superior Electric

383 Middle Street
Bristol, CT 06010
800-787-3532; 860-585-4500
Fax: 860-582-3784
www.superiorelectric.com
ted.gladis@superiorelectric.com

Superscope Technologies Inc./Marantz

2640 White Oak Circle, Suite A
Aurora, IL 60504
630-820-4800
Fax: 630-820-8103
www.marantz.com/product/professional

Surgex

2744 N Sagan Rd
New Hope, PA 18938
215-862-9344
Fax: 215-862-0270
www.surgex.com
anew@frontierelec.com

Switchcraft Inc.

5555 N Elston Ave
Chicago, IL 60630
773-792-2700
Fax: 773-792-2129
www.switchcraft.com
sales@switchcraft.com

SWR

619 Industrial Park Road
Ebensburg, PA 15931
800-762-7743; 814-472-5436
Fax: 814-472-5552
www.swr-rf.com
davide@swr-rf.com

GPS MASTER CLOCK & Time Code Generator

*Equipped with an internal 8-channel GPS receiver, you can now
have time, date and time code within 130 nanoseconds of perfect accuracy
anywhere in the world. The ES-185A's best feature is the price, \$2495.*



STANDARD FEATURES INCLUDE:

- SMPTE/EBU, ESE, IRIG-B, ASCII time Code Outputs
- 1PPS Output • 8 Satellite Tracking • Battery Back-up
- GPS "Lock" Indicator • Automatic Daylight Savings Time Correction
- Time Zone Offset • Antenna • 3 Year Warranty • AND MORE!

OPTIONAL FEATURES INCLUDE:

- Parallel BCD Output • 1 KPPS • 10 MHz Output • 220 VAC • 12 VDC
- Video Inserter • Video Sync-Generator



www.es-web.com

142 SIERRA ST., EL SEGUNDO, CA 90245 USA 310-322-2136 FAX: 310-322-8127

Circle (168) on Free Info Card



Everybody knows
that DWDM is the only
way to get SDI 270/
HD-SDI 540 Mbps video
from point A to point B
of more than 100 meters,
Network Flashlink has the
BEST PRICE
PERFORMANCE!

NEED MORE
INFORMATION?
WE CAN PROVIDE
MATERIAL FOR
DWDM
PRESENTATIONS

CONTACT US BY
E-MAIL OR CLICK YOUR
WAY TO OUR WEBSITE

3 Year Warranty on all
Network Equipment.

Large Inventory.

NETWORK ELECTRONICS

1-201-854-8418

e-mail: ussales@networkgroup.no



www.network-electronics.com

Circle (140) on Free Info Card

Symetrix

14926 35th Ave W
Lynnwood, WA 98037-2303
425-787-3222
Fax: 425-787-3211
www.symetrixaudio.com
symetrix@symetrixaudio.com

Synergistic Technologies Inc.

121 Hillpointe Dr., Suite 700
Canonsburg, PA 15317
888-873-0800; 724-873-0800
Fax: 724-873-4770
www.stidigital.com
info@stidigital.com

SyntheSys Research

3475-D Edison Way
Menlo Park, CA 94025
650-364-1853
Fax: 650-364-5716
www.synthesysresearch.com
info@synthesysresearch.com

Systems Wireless Ltd

465 Herndon Pkwy
Herndon, VA 20170
800-542-3332; 703-471-7887
Fax: 703-437-1107
www.swl.com
bsien@swl.com



Tadiran Scopus - USA

12265 World Trade Drive, Suite G
San Diego, CA 92128
858-618-1600
Fax: 858-618-1615
www.tadiranscopus.com
info@tadiranscopus.com
See our products in the following categories: Computers & Peripherals; Video Compression Equipment; Video Routing & Distribution

Tally Display Corp. (TDC)

120 Clinton Ave
Nyack, NY 10960-4315
845-353-6300
Fax: 845-353-4029
www.tallydisplay.com
info@tallydisplay.com

Tandberg Television

3501 Jamboree Road, Suite 200
Newport Beach, CA 92660
949-725-2500
Fax: 949-725-2545
www.tandbergtv.com
lhobbs@tandbergtv.com

Tannoy/TGI North America Inc.

335 Gage Ave, Suite 1
Kitchener, ON, Canada N2M 5E1
519-745-1158
Fax: 519-745-2364
www.tannoy.com
inquiries@tgina.com

TASCAM

7733 Telegraph Rd
Montebello, CA 90640
323-726-0303
Fax: 323-727-7635
www.tascam.com
tascamweb@tascam.com

TC Electronic

742-A Hampshire Road
Westlake Village, CA 91361
805-373-1828
Fax: 805-379-2648
www.tcelectronic.com
info@tcelectronic.com

Team Systems Inc.

2934 Corvin Drive
Santa Clara, CA 95051
800-338-1981; 408-720-8877
Fax: 408-720-9643
www.team-systems.com
info@team-systems.com

Techni-Tool Inc.

1547 N. Trooper Rd., P.O. Box 1117
Worcester, PA 19490-1117
800-832-4866; 610-825-4990
Fax: 610-828-5623
www.techni-tool.com
sales@techni-tool.com

Teklogic Inc.

4764 Park Granada, Suite 202
Calabasas, CA 91302
818-876-8630
Fax: 818-225-8778
www.teklogic.com
john@teklogic.com

Tektronix

Tektronix Inc.

14200 SW Karl Braun Dr., P.O. Box 500
Beaverton, OR 97077
800-835-9433; 503-627-7111
Fax: 503-222-1542
www.tektronix.com
Eric.Hodges@Tektronix.com

Color indicates advertisers

*** DTV/HDTV ready products**



Telecast Fiber Systems

102 Grove St
Worcester, MA 01605
508-754-4858
Fax: 508-752-1520
www.telecast-fiber.com
sales@telecast-fiber.com
See our products in the following categories: Microwave, Fiber Optic & Telco Equipment; Wire, Cable & Connectors

Telect Inc.

2111 N Molter Rd
Liberty Lake, WA 99019
800-551-4567; 509-926-6000
Fax: 509-926-8915
www.avsm.com

Telemetrics Inc.

6 Leighton Place
Mahwah, NJ 07430
800-424-9626; 201-848-9818
Fax: 201-848-9819
www.telemetricsinc.com
telemetricsinc.com

Telescript Inc.

445 Livingston St
Norwood, NJ 07648
201-767-6733
Fax: 201-784-0323
www.telescript.com

Telestream

848 Gold Flat Rd
Nevada City, CA 95959
877-CLPMAIL; 530-470-1300
Fax: 530-470-1301
www.telestream.net
info@telestream.net

Telex Communications, Inc. & Electro Voice

1200 Portland Ave. So.
Burnsville, MN 55337
800-392-3497; 952-884-4051
Fax: 952-884-0043
www.telex.com

Tenco Tower Co

9647 Folsom Blvd
Sacramento, CA 95827-1326
888-864-5999; 916-638-8833
Fax: 916-362-6846
towerman@broadcast.net

Tentel Corp.

4475 Golden Foothill Pkwy
El Dorado Hills, CA 95762
800-538-6894; 916-939-4005
Fax: 916-939-4114
www.tentel.com
info@tentel.com

Teralogic

1240 Villa Street
Mountain View, CA 94041
650-526-2000
Fax: 650-526-2006
www.teralogic-inc.com

TeraNex

7800 Southland Blvd, Suite 250
Orlando, FL 32809
407-517-1086
Fax: 407-517-1101
www.teranex.com
randythomas@teranex.com
See our products in the following categories: Multimedia, CD-ROM & Internet Development; TBCs, Frame Syncs & Conversion Equipment; Video Compression Equipment; Video Servers & Storage

TerraSonde

1751 Redwood Ave
Boulder, CO 80304
888-433-2821; 303-545-5848
Fax: 303-545-6066
www.terrasonde.com
info@terrasonde.com

TFT Inc.

836 W. California Ave.
Sunnyvale, CA 94086
800-347-3383; 408-727-7272
Fax: 408-727-5942
www.tftinc.com
dparker@tftinc.com

The Austin Company

6095 Parkland Blvd
Cleveland, OH 44124-4186
440-544-2600
Fax: 440-544-2684
www.theaustin.com
austin.info@theaustin.com

HD Signal Generator

SG-7802

- Multi-Interface capabilities
4ch HD SDI, 1ch Analog YPbPr, 1ch Tri-level Sync,
2ch Analog Audio (SDI embedded 8ch audio)
- Various Test Patterns
- Genlock to Tri-level/NTSC/PAL and Phase adjustable
- User Image Data is downloadable via USB and PC card

Small & Compact
(1 U half rack size)



The Ultimate Solution for HD Monitoring

Supports Multiple
HD Formats
1080i, 24sf, 1080p
720p and More



6" HD LCD Monitor DM-3000

- High Contrast 6" TFT (960x540 active area)
- Swappable Input Interface: HD Serial Digital/Analog YPbPr
- Graticule Overlay: Center, 4x3, Frame, 90% Frame
- Black & White Display for Focus Check
- Gamma/Brightness/Contrast Adjustment

Astro Systems, Inc.
1756 Flower Street, Glendale, CA 91201
Ph 818.244.1806 Fax 818.244.1878

www.astro-systems.com



Circle (169) on Free Info Card

The Systems Group

317 Newark Street
Hoboken, NJ 07030
201-795-4672
Fax: 201-798-3033
www.tsg-hoboken.com

The Whitlock Group

8406 Benjamin Road, Suite F
Tampa, FL 33634
(813) 886-4414
Fax: (813) 887-44714 fax
www.whitlock.com

Theatre Service & Supply Corp.

1792 Union Ave
Baltimore, MD 21211
410-467-1225
Fax: 410-467-1289
www.stage-n-studio.com
sales@stage-n-studio.com

**Thomcast Communications Inc. -
Comark Division**

104 Feeding Hills Road
Southwick, MA 01077
413-569-0116
Fax: 413-569-0679
www.thomcastcom.com
fiore@thomcastcom.com

Thomson Broadcast

49 Smith St
Englewood, NJ 07631
800-882-1824; 201-569-1650
Fax: 201-569-1511
www.thomsonbroad.com
rfiore@thomcastcom.com

**Thomson Components &
Tubes Corp.**

40G Commerce Way
Totowa, NJ 07511
973-812-9000
Fax: 973-812-9050
www.tctus.com

See our products in the following categories: RF Feedline, Components & Towers; Satellite Equipment

Tiernan Communications

5751 Copley Drive
San Diego, CA 92111
800-323-0252; 858-587-0252
Fax: 858-587-0257
www.tiernan.com
info@tiernan.com

**Transoft Networks Inc., a Hewlett
Packard Company**

602 East Montecito St.
Santa Barbara, CA 93103
800-949-6463; 805-883-4300
Fax: 805-883-4387
www.transoftnetworks.com

Trompeter Electronics Inc.

31186 LaBaya Drive
Westlake Village, CA 91362-4047
800-982-2629; 818-707-2020
Fax: 818-706-1040
www.trompeter.com
sales@trompeter.com

See our products in the following categories: Test & Measurement Equipment; Video Accessories; Wire, Cable & Connectors

TV One Multimedia Solutions

1445 Jamike Drive, Suite 8
Erlanger, KY 41018
800-721-4044; 859-282-7303
Fax: 859-282-8225
www.tvone.com
sales@tvone.com

ULTIMATE Corp.

20554 Plummer St
Chatsworth, CA 91311
818-993-8007
Fax: 818-993-3762
www.ultimate.com
sales@ultimate.com

United Media Inc.

4771 E Hunter
Anaheim, CA 92807
714-777-4510
Fax: 714-777-2434
www.unitedmediainc.com
ole_info@unitedmediainc.com

Utah Scientific

4750 Wiley Post Way, Suite 180
Salt Lake City, UT 84116
801-524-9999
Fax: 801-524-0555
www.utahscientific.com
sales@utahscientific.com

Vari-Light

201 Regal Row
Dallas, TX 75247
877-Vari-Lite; 214-630-1963
Fax: 214-630-5867
www.vari-lite.com
info@vari-lite.com

VBrick Systems Inc.

12 Beaumont Rd.
Wallingford, CT 06492
203-265-0044
Fax: 203-265-6750
www.vbrick.com

VDP Inc.

205 W. Boutz RD., Bldg. 3
Las Cruces, NM 88005
800-VIDCAD-6; 505-524-8959
Fax: 505-524-9669
www.vidcad.com
sales@vidcad.com

Veetronix Inc.

P.O. Box 480
Lexington, NE 68850
800-445-0007; 308-324-6661
Fax: 308-324-4985
www.veetronix.com
sales@veetronix.com



Vega

9900 E Baldwin Place
El Monte, CA 91731-2294
800-877-1771; 626-442-0782
Fax: 626-444-1342
www.vegawireless.com
sales@vegawireless.com

Vela

5733 Myerlake Circle
Clearwater, FL 33760-2804
727-507-5300
Fax: 727-507-5311
www.vela.com
info@vela.com

Vi (z) rt

22 West 21st St., Suite 404
New York, NY 10010
877-955-2230; 212-463-9902
Fax: 212-463-9931
www.vizrt.com

Vibrint Technologies

23 Crosby Drive
Bedford, MA 01730
877-842-7468; 781-275-4088
Fax: 781-275-5070
www.vibrint.com

Vicon Industries

89 Arkay Drive
Hauppauge, NY 11788
800-645-9116; 516-952-2288
Fax: 516-951-2288

Victory Cinevideo Battery Corp.
1508 W. Burbank Blvd.
Burbank, CA 91506
800-292-6565; 818-840-2766
Fax: 818-840-6724

Video Accessory Corp.
2450 Central Ave, Suite H
Boulder, CO 80301
800-821-0426; 303-443-4950
Fax: 303-440-8878
www.vac-brick.com

Video Analyzers
3861 Ocean View Ave
Brooklyn, NY 11224-1343
718-714-9873
Fax: 718-714-0242
www.compuvideo.com

Video Data Systems
40 Oser Ave
Hauppauge, NY 11788
800-858-5850; 631-231-4400
Fax: 631-231-4405
www.videodatasys.com
sales@videodatasys.com

Video Networks Inc.
245 Hembree Park Drive, Suite 100
Roswell, GA 30076
770-619-0801
Fax: 770-619-0802
www.vninet.com

Video Rentals Inc. (VRI)
183 Oak Tree Road
Tappan, NY 10983
800-255-2874;
Fax: 914-365-0748
www.rentvri.com
info@rentvri.com

Videoframe Systems Inc.
P.O. Box 1991
Grass Valley, CA 94945
530-477-2000
Fax: 530-477-7599
www.videoframesystems.com
margaret@videoframesystems.com

Videomagnetics Inc.
2266 Executive Cir
Colorado Springs, CO 80906
800-432-3887; 719-579-6643
Fax: 719-576-5655
www.videomagnetics.com
vmi@csprings.com

Videomedia Inc.
175 Lewis Road, Suite 23
San Jose, CA 95111
408-227-9977
Fax: 408-227-6707
www.videomedia.com
sales@videomedia.com

Videonics
1370 Dell Ave
Campbell, CA 95008-6604
800-338-3348; 408-866-8300
Fax: 408-866-4859
www.videonics.com
info@videonics.com

Broadcast & Cable TV **Studio & Corporate** **Electronic News Gathering** **Telecommunications**

Government & Military **Field Production** **Surveillance & Transportation**

Fiber Optic Transport **Distribution** **Test Generators** **Switchers** **Source ID** **Loss Detectors**
Video Audio Data SDI HDTV

www.multidyne.com **info@multidyne.com**

MULTIDYNE

191 Forest Avenue, Locust Valley, NY 11560-2132 USA
1-800-488-8378 1-516-671-7278 Fax 1-516-671-3362

Please CALL or VISIT our WEB SITE for product information.

Copyright 2000 Multidyne Inc. and Kent Flemmer

Circle (170) on Free Info Card

VideoTek

243 Shoemaker Road
Pottstown, PA 19464-6433
800-800-5719; 610-327-2292
Fax: 610-327-9295
www.videotek.com
sales@videotek.com
See our products in the following categories: Cable TV Equipment; Production Switchers & Effects; Test & Measurement Equipment; Video Monitors, Projectors & Accessories; Video Routing & Distribution; Wire, Cable & Connectors

Viewgraphics

1250 Space Park Way
Mountain View, CA 94043
650-903-4900
Fax: 650-969-6388
www.viewgraphics.com
info@viewgraphics.com

Vinten Inc.

709 Executive Blvd
Valley Cottage, NY 10989
888-2 VINTEN; 914-268-0100
Fax: 914-268-0113
www.vinten.com
steve.savitt@vinten.com

Virage Inc.

177 Boret Rd., Suite 520
San Mateo, CA 94402-3121
650-573-3210
Fax: 650-573-3211
www.virage.com
info@virage.com

VITEC

556 Weddell Dr, Suite 3
Sunnyvale, CA 94089
408-752-9483
Fax: 408-752-8486
www.vitecmm.com

V-Soft Communications

1600 Picturesque Dr
Cedar Falls, IA 50613-4541
800-743-3684; 319-266-8402
Fax: 319-266-9212
www.v-soft.com
kmichler@v-soft.com

Walters-Storyk Design Group

262 Martin Ave
Highland, NY 12528
914-691-9300
Fax: 914-691-9361
www.wsdg.com
info@wsdg.com

Ward-Beck Systems Ltd

455 Milner Ave Unit 10
Toronto, ON Canada M1B 2K4
800-771-2556; 416-335-5999
Fax: 416-335-5202
www.wbsltd.com
wbsltd@istar.ca
See our products in the following categories: Audio DAs; Audio A/D-D/A Converters; Audio Test & Measurement equipment; Audio Meters; Audio Accessories

Wave:Space Inc.

26741 Portola Pkwy, Suite 1E
Foothill Ranch, CA 92610
949-770-6601
Fax: 949-770-6575
www.wave-space.com
info@wave-space.com

Weather Central Inc.

5725 Tokay Blvd
Madison, WI 53719
608-274-5789
Fax: 608-278-2746
www.WXC.com

Wegener Communications

11350 Technology Circle
Duluth, GA 30097
800-848-9467; 770-814-4000
Fax: 770-623-0698
www.wegener.com
info@wegener.com

Westcott (F J Westcott Co)

P.O. Box 1596, 1447 Summit St
Toledo, OH 43603
800-886-1689; 419-243-7311
Fax: 419-243-8401
www.fjwestcott.com

Westlake Audio

2696 Lavery Court, Unit 18
Newbury Park, CA 91320
805-449-3686
Fax: 805-498-2571
www.westlakeaudio.com
mgrgroup@westlakeaudio.com

Wheatstone Corp.

600 Industrial Drive
New Bern, NC 28562
252-638-7000
Fax: 252-637-1285
www.wheatstone.com
sales@wheatstone.com
See our products in the following category:
Audio Mixers

Whirlwind

99 Ling Rd
Rochester, NY 14612
888-733-4396;
Fax: 716-865-8930
www.whirlwindusa.com
sales@whirlwindusa.com

For up-to-the-minute news,
feature archives and
Systems Design Showcases
log on to

www.broadcastengineering.com

Will-Burt

P.O. Box 900
Orrville, OH 44667-0900
330-682-7015
Fax: 330-684-1190
www.willburt.com
mastlite@willburt.com

Winsted Corp.

10901 Hampshire Ave S
Minneapolis, MN 55438-2385
800-559-6691; 952-944-9050
Fax: 952-944-1546
www.winsted.com
racks@winsted.com

Wireworks Corporation

380 Hillside Ave
Hillside, NJ 07205
800-642-9473; 908-686-7400
Fax: 908-686-0483
www.wireworks.com
info@wireworks.com

Wohler Technologies Inc.

713 Grandview Drive
South San Francisco, CA 94080
888-596-4537; 650-589-5676
Fax: 650-589-1355
www.wohler.com
sales@wohler.com

Wold International, Inc.

3440 Motor Ave, Suite 200
Los Angeles, CA 90034
310-842-6900
Fax: 310-842-6903
www.woldinternational.com

WolfVision Inc.

655 Sky Way, Suite 119
San Carlos, CA 94070
800-356-WOLF; 650-802-0786
Fax: 650-802-0788
www.wolfvision.com
wolfvision.usa@wolfvision.com

Xicom Technology

3550 Bassett Street
Santa Clara, CA 95054
408-213-3000
Fax: 408-213-3001
www.xicomtech.com

Yamaha Corp. of America

6600 Orangethorpe Ave
Buena Park, CA 90620-1373
714-522-9011
Fax: 714-522-9522
www.yamaha.com/proaudio
nfostation@yamaha.com

YEM America Inc.

734 Silver Spur Road, Suite 203
Rolling Hills Estate, CA 90274
310-544-9343
Fax: 310-544-9363
www.yem.com
info@yem.com

Z Technology Inc.

1815 NW 169th Place, Suite 5007
Beaverton, OR 97006
503-614-9800
Fax: 503-614-9898
www.ztechnology.com
sales@ztechnology.com

Zack Electronics

1070 Hamilton Road
Duarte, CA 91010
626-303-0655
Fax: 626-303-8694
www.zackinc.com
info@zackinc.com

Zandar Technologies

305 Vineyard Town Center
Morgan Hill, CA 95037
408-782-9725
Fax: 408-782-9825
www.zandar.com
sales@zandar.com
See our products in the following categories: Cable TV Equipment; Computers & Peripherals; TBCs, Frame Syncs & Conversion Equipment; Video Monitors, Projectors & Accessories

Zapex Technologies

2432 Charleston Rd
Mountain View, CA 94043
650-930-1300
Fax: 650-930-1399
www.zapex.net
info@zapex.com

Zaxcom

140 Greenwood Ave
Midland Park, NJ 07432
201-652-7878
Fax: 201-652-7776
www.zaxcom.com
info@zaxcom.com



**Mic-Preamps, Line Amps,
16 SOTA* Channels in 1RU**

The MicroFrame™

The space saving MicroFrame™ houses up to 16 modules, with dual regulators. The LA-1 line amp is a one-in, two-out DA. The MP-1 is a one-in, two out mic-pre with 48 V phantom power. All units have State-of-the-Art* performance and are priced to fit most everyone's budget... from Benchmark of course! Visit our web site today.

- 1RU High Chassis
- Up to 16 Line Amps
- Up to 16 Mic-Preamps
- Redundant Power
- Mix Amp Option
- Connector I/O Options

Benchmark
...The measure of excellence™

www.benchmarkmedia.com
sales@benchmarkmedia.com

BENCHMARK MEDIA SYSTEMS, INC.
Phone 800-262-4675, FAX 315-437-8119

Circle (171) on Free Info Card

2net Fx

2370-A Qume Dr
San Jose, CA 95131
408-232-1600
Fax: 408-232-1601
www.2netFX.com

3 Point Digital

3300 N San Fernando Rd
Burbank, CA 91504
818-729-3000; 888-373-2843
Fax: 818-729-3001
www.3pd.com

A.F. Associates Inc

100 Stonehurst Court
Northvale, NJ 07647
201-767-1200
Fax: 201-784-8637
www.afassoc.com
sales@afassoc.com



O.B Vehicles DSNG/ENG/PROD/

Built with commonsense features, using
Operator's wish lists, Engineering's
specifications, Management's budget and
Our innovations.



Alpha Video & Electronics
Co., 200 Keystone Dr., Carnegie, PA 15106
800-845-7783 www.avceng.com

Circle (172) on Free Info Card

Alcatel USA

100 Coit Road 401-100
Plano, TX 75075
972-996-5000; 800-252-2835
Fax: 972-996-2778
www.usa.alcatel.com/telecom/access/
wireless
scott.d.nelson@usa.alcatel.com

Arcatron Inc

2432 W. Peoria Ave. Ste 1073
Phoenix, AZ 85029
602-843-2589
Fax: 602-997-4989
www.arcatron.com
bginger@arcatron.com

BAF Communications Corp

314 Northstar Court
Sanford, FL 32771
407-324-8250; 800-633-8223
Fax: 704-328-0513
www.bafcom.com

Carlson

120 Montgomery St Ste. 900
San Francisco, CA 94104
415-677-0141
Fax: 415-677-0145
www.carlsonolutions.com

CBT Systems

10115 Carroll Canyon Rd
San Diego, CA 92131
(858) 536-2927
Fax: (858) 536-2354
www.cbt-net.com

Christie Digital Systems Inc

809 Wellington St N
Kitchener, ON Canada N2G 4A7
519-744-8005
Fax: 519-749-3136
www.christiedigital.com

Colossalvision

26 Broadway Suite 666
New York, NY 10004
212-269-6333
Fax: 212-269-4334
colossalvision.com
info@colossalvision.com

Communications Engineering Inc (CEI)

8500 Cinder Bed Rd Suite 100
Newington, VA 22122
703-550-5800
Fax: 703-550-5180
www.commeng.com
slewis@commeng.com

Crystal Group Inc.

850 Kacena Road
Hiawatha, IA 52233
800-378-1636
Fax: 319-393-2338
www.crystalpc.com
kjwilliams@crystalpc.com

Custom Mobile Products

31335 Industrial Parkway Suite 1
N Olmsted, OH 44070
440-779-2740; 888-452-3797
Fax: 440-779-2741
custommp@aol.com

DST - Digital System Technology Inc

16027 Arrow Highway Suite D
Irwindale, CA 91706
626-472-7701
Fax: 626-472-7710
www.dstech.com

E-N-G Mobile Systems Inc

2245 Via De Mercados
Concord, CA 94520
925-798-4060; 800-662-4522
Fax: 925-798-0152
www.e-n-g.com
engsales@e-n-g.com

EASI-Efficient Antenna Systems Inc

2810 Highway 18 West Suite 200
Clear Lake, IA 50428
515-424-5079; 800-666-9531
Fax: 515-424-8869
www.easisat.com
thedrick@easisat.com

Full Compass Systems Ltd

8001 Terrace Ave
Middleton, WI 53562
608-831-7330; 800-356-5844
Fax: 608-831-6330
www.compassxpress.com

General Video Corp (GVC)

2385 John Fries Highway
Quakertown, PA 18951
215-536-1900; 800-482-0075
Fax: 215-536-1779
www.gvcusa.com
gvcvideo@erols.com

Global Communications Solutions

330 Turk Hill Park
Fairport, NY 14450
716-425-0760
Fax: 716-425-0762
www.globalcoms.com
info@comsatsys.com

Harris Corporation, Broadcast Communications Div.

4393 Digital Way PO Box 8450
Mason, OH 45040-8450
513-459-3400; 800-622-0022
Fax: 513-459-3890
www.harris.com
broadcast@harris.com

IDB Systems

3236 Skylane Drive
Carrollton, TX 75006
972-407-7700
Fax: 972-407-7787
www.idbsystems.com

IMMAD ECVS

3 Mars Court
Boonton, NJ 07005
905-470-2545; 888-694-6623
Fax: 905-470-2559
www.immad.com
sales@immad.com

Intelligent Media, Inc.

21110 Vanowen Street
Canoga Park, CA 91303
818-615-1708; 800-366-9622
Fax: 818-615-1708
www.intelligentmedia.com
info@intelligentmedia.com

Keops Broadcast

1155 University St Suite 1100
Montreal, QC Canada H3B 3A7
514-876-2855
Fax: 514-876-3664
www.keopsbroadcast.com
info@keopsbroadcast.com

Lerro Corporation

905 Madison Ave.
Norristown, PA 19403
610-650-4100
Fax: 610-650-4110
www.lerro.com
lerrocorp@lerro.com

Miller Professional Products Canada

1055 Granville St
Vancouver, BC Canada V6Z 1L4
604-685-4654
Fax: 604-685-5648
millercanada.com

National TeleConsultants

700 N Brand Blvd., 10th Floor
Glendale, CA 91203
818-265-4400
Fax: 818-265-4455
info@ntc.com

Netcom

1465 Palisade Ave
Teaneck, NJ 07666-3698
201-837-8424
Fax: 201-837-8384
www.patchamp.com
jimt@patchamp.com

NTL

Crawley Court
Winchester Hamps, England SO21 2QA
+44 1962 823 434
Fax: +44 1962 822 378
www.ntl.com

Panasonic Broadcast

3330 Cahuenga Blvd West
Los Angeles, CA 90068
323-436-3500; 800-528-8601
Fax: 323-436-3660
www.panasonic.com/broadcast

Parsons Audio

192 Worcester St.
Wellesley, MA 02181
781-431-8708
Fax: 781-431-8783
www.paudio.com

Professional Communications Systems

5426 Beaumont Center Blvd Suite 350
Tampa, FL 33634
813-888-5353; 800-447-4714
Fax: 813-886-9477
www.pcomsys.com

Quantel

28 Thorndal Circle
Darien, CT 06820
203-656-3100; 800-218-0051
Fax: 203-656-3459
www.quantel.com
usa@quantel.com

RAM Systems and Communications Inc

950 N Rand Road Suite 205
Wauconda, IL 60084
847-487-7575; 800-779-7575
Fax: 847-487-2440
www.ramsyscom.com
sales@ramsyscom.com

MONITOR LOTS FOR LESS \$

On-Screen Alarms
Up to 4 Audio Channels
On-Screen Set-Up Menu
Status Information

Audio Level Metergraph
RPM or VU
Audio Phase Metergraph
Source ID
V-Chip Rating

Serial Digital Video & Audio Converter with Alarm, Status & Audio Level Monitoring

- 601 to PAL/NTSC Conversion
- AES/EBU to Analog Audio
- Audio Level & Phase Keying
- On-Screen Alarms
- Audio De-embedder
- GPI Alarms
- Closed Caption Decoding
- Logging of Errors

Up to 15 Modules in 3RU Frame
Order T780AVM

evertz

www.evertz.com • Tel: 905-335-3700 • Fax: 905-335-3673

Circle (173) on Free Info Card

RDA Systems

112-118 Weldon Parkway
Maryland Heights, MO 63043
314-872-8222; 888-616-7980
Fax: 314-872-3009
www.rdasystems.com
info@rdasystems.com

Roscor Corp

1061 Feehanville Drive
Mt Prospect, IL 60056
847-299-8080; 800-843-3679
Fax: 847-299-4206
www.rosco.com
sales@rosco.com

Sintel - Systems International

4851 Gandy Blvd #8-3
Tampa, FL 33611
813-837-0001
Fax: 813-839-0037
sintel@worldnet.att.net

SoftNI Corporation

11400 W. Olympic Blvd. Suite 200
Los Angeles, CA 90064
310-312-9558
Fax: 310-385-9025
www.softni.com

Sony Electronics

One Sony Drive
Park Ridge, NJ 07656
201-930-1000; 800-686-SONY
Fax: 201-930-4752
www.sony.com/professional

SpectraSite Broadcast Group

5601 N. MacArthur Blvd.
Irvine, TX 75038
972-550-9500
Fax: 972-550-9595
www.spectrasite.com

Strategic I.T. Solutions

9365 Allen Road
West Chester, OH 45069
513-860-9052; 877-860-9052
Fax: 513-860-2068
www.strategicit.net
sales@strategicit.net

Synergistic Technologies Inc

121 Hillpointe Dr Ste 700
Canonsburg, PA 15317
724-873-0800; 888-873-0800
Fax: 724-873-4770
www.stidigital.com
info@stidigital.com

Teklogic Inc

4764 Park Granada Suite 202
Calabasas, CA 91302
818-876-8630
Fax: 818-225-8778
www.teklogic.com
john@teklogic.com

The Systems Group

317 Newark Street
Hoboken, NJ 07030
201-795-4672
Fax: 201-798-3033
www.tsg-hoboken.com

The Whitlock Group broadcast engineering services

The Whitlock Group

8406 Benjamin Road, Suite F
Tampa, FL 33634
(813) 886-4444
Fax: (813) 887-44714 fax
www.whitlock.com

Transoft Networks Inc

602 East Montecito St.
Santa Barbara, CA 93103
805-883-4300; 800-949-6463
Fax: 805-883-4387
www.transoftnetworks.com

Video Networks Inc

245 Hembree Park Drive, Suite 100
Roswell, GA 30076
770-619-0801
Fax: 770-619-0802
www.vninete.com

Walters-Storyk Design Group

262 Martin Ave
Highland, NY 12528
914-691-9300
Fax: 914-691-9361
www.wsdg.com
info@wsdg.com

Wave:Space Inc

26741 Portola Pkwy #1E
Foothill Ranch, CA 92610
949-770-6601
Fax: 949-770-6575
www.wave-space.com
info@wave-space.com

Winemiller Communications

99 Garden Parkway
Carlisle, PA 17013
717-244-4400; 888-244-9207
Fax: 717-241-9207
winemiller.com

Broadcast ENGINEERING

www.broadcastengineering.com

EDITORIAL

Brad Dick, *Editor*
Jim Saladin, *Senior Associate Editor*
Laura Collins, *Associate Editor*
Tom Cook, *Dir., Editorial Development*

ART

Laura Jones, *Art Director*

TECHNICAL CONSULTANTS

Brad Glimmer, *Computers & Networking*
John H. Battison, P.E., *Antennas/Radiation*
Michael Robin, *Digital Video*
Donald L. Markley, *Transmission Facilities*
Harry C. Martin, *Legal*
Larry Bloomfield, *News Technology Editor*
Paul McGoldrick, *Industry Watcher*

BUSINESS

John Torrey, *V.P. Entertainment Division*
Dennis Triola, *Group Publisher*
Jennifer Weir, *Marketing Director*
Kathy Lewis, *Advertising Coordinator*
Mary Mitchell, *Classified Adv. Coordinator*
Sherri Gronli, *Corporate Circulation Director*
Gayle Hutchens, *Circulation Manager*

INTERTEC Publishing

Timothy M. Andrews, *Chief Executive Officer*
Ron Wall, *President*
John Skeels, *President, Corporate Services*
Stephanie Hanaway, *Dir. Dir. of Marketing*
Doug Conrod, *Corporate Art Director*

PRIMEDIA Business to Business Group

David G. Fern, *President/CEO*
Craig Reiss, *Chief Creative Officer*
PRIMEDIA Inc.
Tom Rogers, *Chairman and CEO*
Charles McCurdy, *President*
Beverly C. Chell, *Vice Chairman*

MEMBER ORGANIZATIONS

Sustaining Members of:
• Acoustical Society of America
• Society of Broadcast Engineers
• Society of Motion Picture and TV Engineers
• Society of Cable & Telecommunications Engineers
Member, American Business Media
Member, BPA International
Affiliate Member,
International Teleproduction Society



BROADCAST ENGINEERING is edited for corporate management, engineers/technicians and other management personnel at commercial and public TV stations, post-production and recording studios, broadcast networks, cable, telephone and satellite production centers and networks.

SUBSCRIPTIONS: Non-qualified persons may subscribe at the following rates: United States and Canada; one year, \$65.00. Qualified and non-qualified persons in all other countries; one year, \$80.00 (surface mail); \$145.00 (air mail). Subscription information: P.O. Box 12937, Overland Park, KS 66282-2937.

Photocopy authorization for internal or personal use is granted by PRIMEDIA Intertec, provided that the base fee of U.S. \$2.25 per copy, plus U.S. \$0.00 per page is paid directly to Copyright Clearance Center, 222 Rosewood Dr., Danvers, MA 01923. The fee code for users of the Transactional Reporting Service is ISSN 0361-0942/2000\$2.25+00.00. For those organizations that have been granted a photocopy license by CCC, a separate system of payment has been arranged. Prior to photocopying items for classroom use, contact CCC at (978)750-8400. For large quantity photocopy or reprint requirements contact Jenny Eisele, (913)967-1966. For microfilm copies call or write Bell & Howell Info., 300 N. Zeeb Rd., P.O. Box 1346, Ann Arbor, MI 48106-1346. Phone: (313)761-4700 or (800)521-0600.

INTERTEC
PUBLISHING
A PRIMEDIA COMPANY

©2000 by Intertec Publishing. All rights reserved.

NETCOM

STATE OF THE ART ENGINEERING
FOR AUDIO AND VIDEO
ENGINEERING DESIGN • CAD DRAFTING SERVICES
CABLE FABRICATION • PRE-WIRED PATCH PANEL RACKS
SYSTEM INSTALLATIONS • EQUIPMENT SALES
(201) 837-8424

FAX (201) 837-8384
1465 PALISADE AVE., TEANECK, NJ 07666

JOHN H. BATTISON P.E.
CONSULTING BROADCAST ENGINEER,
FCC APPLICATIONS AM, FM, TV, LPTV
Antenna Design, Proofs, Fieldwork
2684 State Route 60 RD #1
Loudonville, OH 44842
419-994-3849 FAX 419-994-5419

video, audio, & automation electronics
serving manufacturers & systems integrators

**electronics R & D
& custom product design**

BARANTI GROUP INC

Professional Engineers
Ontario

phone (905) 479-0148
fax (905) 479-0149

"NAME YOUR OWN PRICE ON DUPLICATIONS"

AUDIO • VIDEO • CD-ROM • DVD • DISK
Any Quantity

WWW.QUOTEIT.COM

"The First On-Line
Name Your Own Price Web Site"
A division of QuikBIZ Internet Group, a publicly traded company.

GILMER & ASSOCIATES, INC.
TECHNOLOGY / MANAGEMENT CONSULTANTS

BRAD GILMER
PRESIDENT

2207 RINGSBATH DR
ATLANTA, GA 30345
TEL (770) 414-9952
FAX (770) 493-7421
EMAIL: bgilmer@atnet.com

D.L. MARKLEY

& Associates, Inc.
CONSULTING ENGINEERS

2104 West Moss Ave.
Peoria, Illinois 61604

Phone (309) 673-7511 • FAX (309) 673-8128
www.dlmarkley.com
Member AFCEE

Buy	STUDIO EXCHANGE	818-840-1351 www.studio-exchange.com	On- line Store
Sell	The New DVCAM Editing Deck!	Broadcast Video Equipment	Trade
Trade		- NEW and USED -	Sell
On- line Store	DSR-2000!	SONY	Buy

Circle (180) on Free Info Card

Radial **Broadcast Ready!**



1-800-939-1001

Broadcast ENGINEERING

Brian Huber
1-800-896-9939
Classified Advertising Manager

**PROMOTE YOUR SERVICES
and increase business for as
low as \$146⁰⁰ per insertion.
Call 800-896-9939**



B&H

PHOTO - VIDEO - PRO AUDIO



MONITORS

SONY Panasonic JVC



420 Ninth Ave.

*Between 33rd & 34th Streets,
New York, N.Y. 10001*

Store and Mail Order Hours:

Sun. 10-5, Mon. thru Thurs. 9-7

Fri. 9-1, Sat. Closed

For Orders Call:

800-947-9928

212-444-5028

or FAX (24 Hours):

800-947-9003

212-444-5001

www.bhphotovideo.com

We Ship Worldwide

**VISIT OUR
SUPERSTORE**





"THE PROFESSIONAL'S SOURCE"

FOR ORDERS CALL:
800-947-9928
212-444-5028

OR FAX (24 HOURS):
800-947-9003
212-444-5001

MOST ORDERS SHIPPED
WITHIN 24 HOURS
OVERNIGHT SERVICE AVAILABLE

www.bhphotovideo.com

420 Ninth Ave. (Bet. 33rd & 34th St.) New York, N.Y. 10001



SONY

DSR-250 3-CCD DV & DVCAM

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

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



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

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

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

DSR-20/40 DVCAM Player/Recorders

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

- **LINK** They both offer a LINK (IEEE 1394) input/output. In addition, the digital dubbing including TC Copy mode, full information of audio and time code of the original tape can be copied to another tape. Especially useful when making working copies of the original.
- **Inputs and Outputs** They provide a full range of analog video inputs and outputs for integration into current analog-based systems. They both offer composite and S-video input/output. The DSR-40 (only) offers a component output as well. The DSR-20 is equipped with analog audio inputs and outputs (RCA), the DSR-40 with RCA inputs and XLR-balanced output. These connections in combination with their LINK interface allow a smooth transition to an all digital system in the future.
- **Record/Playback Functions** Automatic repeat function for repeated playback. After reaching the end of the tape, the DSR-20/40 automatically returns to the beginning and starts playing back the segment again.



- **DSR-20 Only** • The DSR-20 can be powered by AC or DC.
- **Editing** with Control L interface, the DSR-20 can perform simple Time Code based editing when connected to another DSR-20 or other similarly equipped VCRs/cameras.

- **DSR-40 Only** • Equipped with an RS-422A interface, it can perform as a monitoring player in A/B roll or cut editing system.
- It also has a simple recording function which can be controlled

- They are capable of searching for Index Points, which are recorded on the tape as "in-point" marks every time a recording starts. They can also search for photo data recorded on a DVCAM cassette by the DSR-200A/300PD-100, or where the recording data has been changed.
- **Reference Input** External sync input enables synchronized playback with other VCRs. Especially important in A/B Roll configurations. In addition, the DSR-40 only allows adjustment of H-sync and SC phase.
- **Control S Interface** The DSR-20/DSR-40 have a Control S input allowing control via the optional DSRM-20 Remote Control.
- The DSR-20 adds a Control S output connector allowing two or more (up to 50) DSR-20s to be daisy-chained and controlled from one DSRM-20.

- In addition to Control L, the DSR-20 also incorporates an RS-232 interface for remote control of basic VCR functions from a PC.
- Supplied with the RMT-DS20 Wireless Remote for control of basic VCR functions.

- either manually or via its RS-422A interface.
- The DSR-40 is not equipped with a synchronization capability. The editing accuracy is performed by pre-roll and play.

DSR-30 DVCAM Digital VCR

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

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



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



SONY

DCR-VX1000 3-CCD Digital Camcorder

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



B&H SPECIAL
\$2495

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

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

JVC

GY-DV500

1/2-inch 3-CCD Professional DV Camcorder

The world's first DV camcorder designed from the ground up for professional ENG work, the GY-DV500 combines the convenience and cost-effectiveness of Mini DV with the performance and features you need. Incorporate three 1/2-inch 380,000 pixel (1 CCDs) for superior picture performance (equivalent to 750 lines of resolution) superb sensitivity of F1.1 at 2000 lux and minimum illumination of 0.75 lux (LoLux mode). Rugged construction with a rigid diecast magnesium housing. Extremely portable, compact and light weight (less than 11 lbs. fully loaded). Additional features like the menu dial and Super Scene Finder assure ease-of-use and shooting flexibility while the IEEE1394 and RS-232 interface allow integration into various non-linear and post-production systems. A professional camcorder in every sense, the compact, lightweight GY-DV500 redefines acquisition for corporate, educational, cable and broadcast production, as well as wedding videography and multimedia applications.



Professional Specifications

- Applies JVC's DSP with advanced 14-bit video processing to bring out more natural details, eliminate spot noise, accurately reproduce dark areas, and restore color information in dark areas.
- CCDs are equipped with advanced circuitry to virtually eliminate vertical smear when shooting bright lights in a dark room. Ensures efficient light conversion with a sensitivity of F1.1 at 2000 lux.
- CCD Defect Correction function evaluates white defects with the lens closed and then stores their addresses in memory. When the camera is turned on, the data is sent to the DSP for storage and real-time correction.
- Black Stretch/Compression function ensures accurate reproduction of black areas on the screen. Advanced color matrix circuits give even difficult images a very natural appearance.
- Multi-stream parallel digital pipeline processing at 40 MHz creates an ultra-smooth gamma curve, calculated using a true log scale algorithm. The result is a dynamic range of 600% to accurately reproduce fine details and colors in shadows or highlights.

Professional Performance

- Multi-zone iris weighting system gives priority to objects at the central and lower portions of the picture for accurate auto exposure under any condition, even if a bright subject moves into the picture.

- Adjustable gamma for adjusting the "feel" of the picture according to taste. Adjustable detail frequency for setting picture sharpness for a bolder or finer look.
- Viewfinder status display uses characters and menus to display selected information, including audio indicator, tape and battery remaining time, VCR operation and warning indicators. Camera settings and setup parameters can also be checked at a glance. A built-in menu dial lets you quickly navigate through the viewfinder menu.
- Highlight Chroma Processing maintains color saturation in highlights. The result is natural color reproduction, even in bright highlight portions of the picture.
- Smooth Transition mode ensures a smooth transition with no jump in color or light level taking place when manually changing gain or white balance settings.

Professional Audio

- To complement its superior video performance, the GY-DV500 offers outstanding digital PCM sound. You can choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels with a dynamic range of 85 dB.
- In addition to camera mounted mic, has two XLR-balanced audio inputs with 48V phantom power and manual audio control. Phantom power can be switched off when not in use.
- Side-mounted speaker lets you monitor audio in playback and recording modes without headphones. The speaker also delivers audible warnings.

SR-VS10U MiniDV and S-VHS VCR Combo

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



- Mini DV Format & High Resolution Super VHS and VHS
- Super VHS ET Recording
- Pro-Cision 19 micron width EP Heads
- Digital Pure Technology w/ TBC and 4MB Frame Memory
- PCM Digital Audio (DV) and Hi-Fi VHS Stereo with MTS Decoder • Jog/Shuttle on Remote
- VCR Plus+ with Cable Eye® Cable Box Controller
- Insert Editing with Flying Erase Head • Plug & Play
- Audio Dubbing • Auto Index and Index Search

- DA4(Double Azimuth) Head Helical Scan System
- Digital AV Tracking • Express Programming • Auto SP-EP Timer Recording • Active Video Calibration • Multi-Brand TV/DBS Compatible Remote with Jog / Shuttle
- S-video input on Front / Back Panel • Two S-Video Output on Back Panel • Rear AV INPUTS, Gold Plated Front Inputs
- DV Playback Component Video Output, Two A/V Outputs



THE PROFESSIONAL'S SOURCE FOR PHOTO,

FOR ORDERS CALL: 800-947-9928 212-444-5028
OR FAX (24 HOURS): 800-947-9003 212-444-5001

MOST ORDERS SHIPPED
WITHIN 24 HOURS
OVERNIGHT SERVICE AVAILABLE
www.bhphotovideo.com

antonauber HyTRON 50 Battery

Weighing a mere 310z (880 grams) and packing 50 Watt-hours of energy - enough to operate a typical ENG camcorder for two hours, the HyTRON 50 is the most advanced lightweight battery in the industry.

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

Specifications: 14.4 V, 50 WH (Watt Hours)
5-3/4" x 3-1/2" x 2-1/4" 1.9 lbs (880g)
Typical runtime: 2 hours @ 25 Watts @ 17 Watts

QUAD 2702/2401 Four-Position Power/Chargers

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

IDX NPH-50 50 Watt Nickel Metal Hydride Batteries

Packed with 50-watts of power, these batteries provide long run times, using them as you would a traditional NP-type battery. Equipped with IDX's proprietary SF technology, they can even be charged in existing Negative Delta V style chargers, like the Sony BC1-WD, or any IDX nicad battery charger.

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

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

NP-H50129.95 NP-H50DX 149.95

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

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

SONY 800 SERIES UHF WIRELESS MICROPHONE SYSTEMS



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



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

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



- Ideally suited for work in computer environments, because RGB signals can be converted into component signals and vice versa with minimum picture degradation.
- 25-pin serial interface allows external computer control of all VCR functions based on time code information. Baud rate can be selected from between 1200 to 38,400 bps.
- Built-in Time Base Stabilizer (TBS) locks sync and subcarrier to an external reference signal as well as providing stable pictures. High quality digital dropout compensator further ensures consistent picture performance.
- Equipped with two longitudinal audio channels.
- Both read LTC (Time Code) and UB (User Bits). The UVW-1400A also generates LTC and UB (Free-Run/Rec-Run).

- Auto repeat of entire or a specific portion of the tape.
- Built-in character generator can display VTR status, time code, self-diagnostic messages, set-up menu, etc.
- Control of jog, shuttle, playback, record, pause, FF and REW with the optional SYRM-100A Remote Control Unit.
- Composite and S-Video as well as component via BNCs which are switchable to RGB output. The UVW-1400A has two switchable sync connectors and a Sync on Green.
- Built-in diagnostic function and hour meter.
- Initial set-up menu for presetting operational parameters. Settings are retained even after power is turned off.

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

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

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

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

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



- Built-in TBC's and digital dropout compensation assure consistent picture performance. Remote TBC adjustment can be done using the optional BVR-50 TBC Remote Control.
- The PVW-2600, PVW-2650 and PVW-2800 (generates as well) read VITC/LTC time code as well as User Bits. Ex/In time code. Regen/Preset, or Rec-Run/Free-Run selections.
- Built-in character generator displays time code or CTL data.

- Set-up menu for presetting many functional parameters.
- Two longitudinal audio channels with Dolby C-type NR. Recognizable monochrome pictures at up to 24x normal speed in forward and reverse. Color at speeds up to 10X.
- Two types of component connection: three BNC connectors or a Betacam 12-pin dub connector. They have composite and S-Video signals as well.

PVW-2650 Only

- Dynamic Tracking (DT) playback from -1 to +3 times normal speed.

PVW-2800 Only

- Built-in comprehensive editing facilities.
- Dynamic Motion Control with memory provides slow motion editing capability.

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

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



- 16:9 aspect ratio CRT with dark panel for high contrast image reproduction • Accepts component (Y/R-Y/B-Y), RGB, Y/C and composite signals • Beam current feedback circuit for stability in the color balance
- Optional component serial digital interface kits BKM-101C (video)/102 (audio) available • Switchable aspect ratio (4:3 and 16:9) • Color temperature D65, D93 or user preset (3200K to 10000K) selectable
- On screen display for adjustment/operation • User preset function
- Underscan, Blue Only and H/V delay mode available
- Auto chroma/phase setup
- Accepts external sync
- Digital 3-line comb filter • Auto/Manual degaussing
- Mountable into an EIA standard rack with the optional SLR-103 slide rail kit.

B&H SPECIAL
\$999

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

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

- HR Trinitron CRT enables the PVM-14M4U and 20M4U to display an incredible 800 lines of horizontal resolution. The PVM-14M2U and 20M2U offer 600 lines of resolution. M4 models also use SMPTE C phosphors for the most critical evaluation of any color subject.
- Dark tint for a higher contrast ratio (black to white) and crisper, sharper looking edges
- Each has two composite, S-Video and component input (R-Y/B-Y, analog RGB). For more accurate color reproduction, the component level can be adjusted according to the input system. Optional BKM-101C (video) and BKM-102 (audio) for SMPTE 259M serial digital input.
- Beam Current Feedback Circuit
- 4 3/16-9 switchable aspect ratio.
- True multi-system monitors they handle four color system signals: NTSC, 4.43, PAL & SECAM

- External sync input and output can be set so that it will automatically switch according to the input selected.
- Switchable color temp. 6500K (broadcast), 9300K (pleasing picture). User preset (3200K to 10000K).
- Blue gun, underscan and H/V delay capability
- On-screen menus for monitor adjustment/operation.
- Parallel remote control and Tally via 20-pin connector.



PROFESSIONAL VIDEO TAPES



Professional Grade VHS			
PG-30	2.29	PG-60	2.39
PG-120	2.59		
Broadcast Grade VHS Box			
BGR-30	3.49	BGR-60	3.99
BGR-120	4.69		
H471S S-VHS Double Coated			
ST-30	5.99	ST-60	7.49
ST-120	7.99		
M221 Hi8 Double Coated			
Metal Particles		Metal Evaporated	
P630HMP	4.49	E630HME	7.69
P660HMP	6.29	F660HME	10.49
P6120HMP	8.49	E6120HME	13.99
M321SP Metal Betacam (Box)			
05S	10.99	10S	11.99
30S	13.99	60S	20.99
90S			32.99
DP121 DVC PRO			
12M (Med)	7.49	23M	8.79
63M		19.99	66L
94L		30.99	126L

maxell

Broadcast Quality Hi8 Metal Particle			
P6-30 HM BQ	5.39	P6-60 HM BQ	6.09
P6-120 HM BQ			7.99
P/PLUS VHS			
T-30 Plus	1.69	T-60 Plus	1.99
T-120 Plus			2.09
		T-160 Plus	2.69
HGX-PLUS VHS (Box)			
HGXT-60 Plus	2.69	HGXT-120 Plus	2.99
HGXT-160 Plus			3.99
BQ Broadcast Quality VHS (Box)			
T-30 BQ	3.89	T-60 BQ	3.99
T-120 BQ			5.99
BQ Professional S-VHS (In Box)			
ST-31 BQ	6.79	ST-62 BQ	6.99
ST-126 BQ	7.45	ST-182 BQ	13.99
Betacam SP			
B30MSP	13.49	B60MLSP	19.99
B90MLSP			27.95

Panasonic

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

SONY

Hi-8 Professional Metal Video Cassettes			
P6-30 HMPX	4.79	P6-30 HMEX	8.19
P6-60 HMPX	6.79	P6-60 HMEX	11.99
P6-120HMPX	8.99	P6-120HMEX	15.99
PR Series Professional Grade VHS			
T-30PR	2.39	T-60PR	2.59
T-120PR			2.79
BA Series Premier Hi-Grade Broadcast VHS (In Box)			
T-30BA	3.69	T-60BA	4.19
T-120BA			4.99
MQ Master Quality S-VHS (In Box)			
MQST-30	7.49	MQST-60	7.69
MQST-120			7.99
BRS 3/4" U-matic Broadcast Standard (In Box)			
KCS-10 BRS (mini)	8.99	KCS-20 BRS (mini)	9.99
KCA-10 BRS	8.99	KCA-20 BRS	9.49
KCA-30 BRS	10.69	KCA-60 BRS	14.99
XBR 3/4" U-matic Broadcast Master (In Box)			
KCS-10 XBR (mini)	9.79	KCS-20 XBR (mini)	11.29
KCA-10 XBR	10.29	KCA-20 XBR	11.79
KCA-30 XBR	13.29	KCA-60 XBR	17.39
KSP 3/4" U-matic SP Broadcast (In Box)			
KSP-S10 (mini)	10.49	KSP-S20 (mini)	12.29
KSP-10	10.99	KSP-20	12.69
KSP-30	14.29	KSP-60	18.59
BCT Metal Betacam SP Broadcast Master (Box)			
BCT-5M (small)	11.99	BCT-10M (small)	12.49
BCT-20M (small)	12.99	BCT-30M (small)	13.49
BCT-100M (10 Pack)			ea. 12.99
BCT-30ML	14.99	BCT-60ML	21.99
BCT-90ML			30.99
Mini DV Tape			
DVM-30EXM w/Chip	12.79	DVM-60EXM w/Chip	16.99
DVM-30EX "No Chip"	11.99	DVM-60EX "No Chip"	12.99
DVM-30PR "No Chip"	7.99	DVM-60PR "No Chip"	9.75
Full Size DV Tape with Memory Chip			
DV-120MEM	24.99	DV-180MEM	26.99
PDV Series Professional DVCAM Tape			
PDVM-12ME (Mini)	14.49	PDVM-22ME (Mini)	15.19
PDVM-32ME (Mini)	15.49	PDVM-40ME (Mini)	15.99
PDV-34ME (Standard)	32.99	PDV-121ME (Standard)	37.99
PDV-184ME (Standard)	44.95	PDVN-64N	24.95
PDVN-124N	31.95	PDVN-184N	39.95

VIDEO and PRO AUDIO



TO INQUIRE ABOUT YOUR ORDER:
 800 221-5743 • 212 239-7765
 OR FAX 24 HOURS:
 800 947-2215 • 212 239-7549

420 Ninth Ave.
 (Bet. 33rd & 34th St.)
New York, N.Y. 10001

Avid/IBM Xpress DV On IntelliStation

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

The Hardware

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

The Software

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

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

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

The Service

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

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

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

Avid MediaDrive rS Plus

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

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

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

Configuration

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

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

SONY ES-3 EditStation



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

- The video and audio files stored on the disk drive of the ES-3 system can easily be converted to AVI or QuickTime file format. Allowing you to create multimedia materials for CD-ROMs, or to be streamed to the web
- Slow and fast motion are available. The playback speed for each clip can be set to be played back at the desired speed.

- Edits on the ES-3 Timeline are converted to the Sony EDL format and displayed in a EDL window. Additionally the EDL can be printed out or saved to disk
- Dual monitor display is available for more efficient operation
- The ES-3 can be switched to operate in either 4:3 or 16:9 wide screen aspect ratio.

Editor

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

ClipBin

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

Timeline

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

Trim Editor

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

Audio Editor

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

Control Panel

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

Breakout box

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

Starting at \$9,995

Apple Authorized Reseller

Final Cut Pro

Professional Editing, Compositing and Effects Software for Macintosh

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



	Page #	Reader Service #	Advertiser Hotline	Website Address
ADC Broadcast	51	126	800-726-4266	adc.com/broadcast
AJA Video	68A-B		530-274-2048	aja.com
Andrew Corp.	74-78	139	800-DIAL-4-RF	andrew.com
Astro Systems	131	169	818-244-1806	astro-systems.com
Audio-Technica	33		330-686-2700	audio-technica.com
AVEC	136	172	800-845-7783	aveceng.com
Avid Technology	27	114	800-949-2843	avid.com
BarcoNet	49	125	770-590-3600	barconet.com
Benchmark Media	135	171	800-262-4675	benchmarkmedia.com
B&H Photo-Video	140-143	174	212-239-7500	bhphotovideo.com
Bogen Photo	63	134	201-818-9500	bogenphoto.com
Broadcast Microwave Serv	94	148	858-560-8601	bms-inc.com
Broadcast Video Systems	119	164	905-764-1584	bvs.on.ca
Calrec Audio	17	108	441422842159	calrec.com
Columbine	21	110	303-237-4000	cjds.com
CPI/Eimac	83	141	650-592-1221	eimac.com
Digital Media Net	13, 57		714-424-6100	digitalmedianet.com
Discreet Logic	43	115	800-869-3504	discreet.com
DNF Industries	119	165	818-252-0198	dnccontrols.com
D P S	11	107	606-371-5533	dps.com
EMCEE	32	117	570-443-9575	ABS-TV.com
ESE	129	168	310-322-2136	ese-webcom
Evertz Microsystems	137	173	905-335-3700	evertz.com
Extron Electronics	9	106	714-491-1500	extron.com
Faroudja Laboratories	67	136	408-735-1492	faroudja.com
Folsom Research	47	124	888-414-SCAN	folsom.com
Forecast Consoles	121	166	516-253-9000	forecast-consoles.com
Fujinon	87	143	800-553-6611	fujinon.co.jp
Gepco	123	167	800-966-0069	gepco.com
Harris Corp./Broadcast Div.	3	104	800-4HARRIS	harris.com
IBUS	93	147	888-307-7892	ibus.com
Industry Click	99	151	609-371-7759	digibid.com
Itelco	61	150	303-464-8000	itelco-usa.com
Keywest Technologies	115	162	913-492-4666	keywesttechnology.com
KTech Telecommunications	85	129	818-361-2248	ktechtelecom.com
Leader Instruments	58-59		800-645-5104	LeaderUSA.com
LeBlanc Broadcast	55	142		leblanc-group.com/lbi
Lectrosonics	89	144	800-821-1121	lectrosonics.com/R/be1100
Leitch Incorporated	23, 146	113, 103	800-231-9673	leitch.com
Lighthouse Digital Sys	113	161	888-494-7300	lighthousedigital.com
Marconi Applied Tech.	97	130	800-342-5338	marconitech.com
Miranda Technologies Inc	7	105	514-333-1772	miranda.com
Multidyne Electronics	133	170	800-4TV-TEST	multidyne.com
Network Electronics	130	140	201-854-8418	network-electronics.com
NOVA Systems	107	158	800-358-NTSC	nova-sys.com
Omneon	31	116	408-558-2113	omneon.com
Opticomm	14-15	109	858-450-0143	opticomm.com
Allen Osborne Assoc.	111	160	805-495-8420	aoa-aps.com
Pesa Switching	91	146	800-328-1008	pesa.com
Philips Semiconductors	28-29			semiconductors.philips.com
Pirot, Inc.	35 - 37	119	219-936-4221	pirod.com
Pixel Power	52	127	561-395-4801	pixelpower.com
Professional Comm. Sys.	95	149	800-447-4714	pcomsys.com
Radamec USA	64	145	877-RADAMEC	radamec.com
RFS Broadcast	101	152	203-239-3311	rfsbroadcast.com
Rohde & Schwarz	62	133	301-459-8800	rsd.de
Ross Video	68, 81, 109		613-652-4886	rossvide.com
Sabre Communications	117	163	800-369-6690	sabrecom.com
Sachtler Corp	25	122	516-867-4900	sachtler.de
SGI	19	111	800-800-7441	sgi.com/go/broadband
Snell & Wilcox	39, 41	120	408-260-1000	snellwilcox.com
Sony Broadcast & Professional Co.	4, 5		800-472-SONY	sony.com/professional
Tadiran Scopus	45	123	+97235576200	tadiranscopus.com
Telecast Fiber Systems	42	121	508-754-4858	telecast-fiber.com
Teranex	65	135	407-517-1086	TeraNex.com
Thomson Tubes	69, 71, 73	138	201-812-9000	tctus.com
Trompeter Electronics	22	112	800-982-2629	trompeter.com
Videotek, Inc.	53, 145	128, 102	800-800-5719	videotek.com
Ward-Beck Systems	103	153-156	416-335-5999	ward-beck.com
Wheatstone Corporation	2	101	252-638-7000	wheatstone.com
Zandar Technologies	105	157	+35312808945	zandar.com

WEST

Duane Hefner
5236 Colodny Ave., Suite 108
Agoura Hills, CA 91301
(818) 707-6476
Fax: (818) 707-2313
dnhefner@worldnet.att.net

EAST

Josh Gordon
335 Court Street, Suite #9
Brooklyn, NY 11231
(718) 802-0488
Fax: (718) 522-4751

EAST/MIDWEST

Joanne Melton
5 Penn Plaza, 13th Floor
New York, NY 10001
(212) 613-9709
Fax: (212) 563-3025
joanne_melton@intertec.com

INTERNATIONAL

Richard Woolley
Tony Chapman
P.O. Box 250
Banbury, Oxon OX16 8YJ U.K.
+44 (0) 1295 278407
Fax: +44 (0) 1295 278408
richardwoolley@compuserve.com

REPRINTS

Reprint Management Resources
(717)399-1900
Fax: (717)399-8900

JAPAN

Orient Echo, Inc.
Mashy Yoshikawa
1101 Grand Maison
Shimomiyabi-Cho 2-18
Shinjuku-ku, Tokyo 162, Japan
(3) +81 3235-5961
Fax: (3) +81 3235-5852

CLASSIFIED ADVERTISING
OVERLAND PARK, KS

Brian Huber
P.O. Box 12901
Overland Park, KS 66282
(800) 896-9939 (913) 967-1732
Fax: (913) 967-1735

LIST RENTAL SERVICES

Lisa Majewski
9800 Metcalf
Overland Park, KS 66212-2215
(913) 967-1872
Fax: (913) 967-1897

CUSTOMER SERVICE:
913-967-1737 OR 800-441-0296

BROADCAST ENGINEERING (ISSN 0007-1994) is published monthly (except semi-monthly in May and December) and mailed free to qualified persons by Intertec Publishing, 9800 Metcalf, Overland Park, KS 66212-2216. Periodicals postage paid at Shawnee Mission, KS, and additional mailing offices. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 0956295. POSTMASTER: Send address changes to *Broadcast Engineering*, P.O. Box 12902, Overland Park, KS 66282-2902. CORRESPONDENCE: Editorial and Advertising: 9800 Metcalf, Overland Park, KS 66212-2216 Phone: 913-341-1300; Edit. fax: 913-967-1905. Advert. fax: 913-967-1904. © 2000 by Intertec Publishing. All rights reserved.



UNIFRAME™: A Master of Intelligence

Videotek's new UNIFRAME™ Intelligent Modular System is your flexible total-solution for all critical audio and video system requirements.



With a choice of three distinct frame sizes, and a wide assortment of digital and analog system modules, the UNIFRAME offers unparalleled flexibility. Control options include any combination of modular level, frame front panel and remote.

With UNIFRAME system solutions now in place at leading broadcast, mobile facilities, and post production houses, discover how this intelligent design can work for you. Let us build a system addressing your specific application requirements for today and the future. Offering total control, system flexibility, performance and quality, UNIFRAME is as intelligent as you want it to be.

Find out how a UNIFRAME total solution can address your specific applications. For more information, call one of our sales engineers at 800-800-5719, or visit our web site at www.videotek.com.

VIDEOTEK® Five Year Warranty
A Zero Defects Company ISO-9001 Certified

Circle (102) on Free Info Card

Premium Quality, Intelligent Design, Total Value... That's Videotek.



The more you need to take control, the more you need an Integrator™ router.

Taking control was never so easy.

Sure, the world is moving at break neck speed, and giving us little time to prepare for whatever's around that next corner. But adding a Leitch Integrator™ to your operation will allow you to take a breath.

This flexible, future-proofed addition to your infrastructure, combined with *RouterWORKS™*, the most sophisticated software available on the market today, provides you with powerful control and monitoring from anywhere. You'll be calling the shots in no time.

The economical Integrator router offers a full range of format support, effortlessly integrating all digital and analog formats, including ASI and HDTV. Packed with invaluable features, the Integrator's compact yet scalable design provides expandability from 32x32 to 512x512, making it a solid investment no matter what the future holds.

Take control with the Integrator.

Canada +1 (416) 445 9640 Europe +44 (0) 1483 591000 USA East +1 (800) 231 9673
USA West +1 (888) 843 7004 Latin America +1 (305) 591 0611 Australia +61 (2) 9939 3355
Japan +81 (3) 5423 3631 Hong Kong +852 2776 0628 Brazil +55 (11) 3151 5093

think video ®
LEITCH
www.leitch.com

Circle (103) on Free Info Card

www.americanradiohistory.com