

TWENTY-SEVENTH EDITION

SOUND & COMMUNICATIONS

FOR CONTRACTORS, SYSTEM MANAGERS AND SPECIFIERS

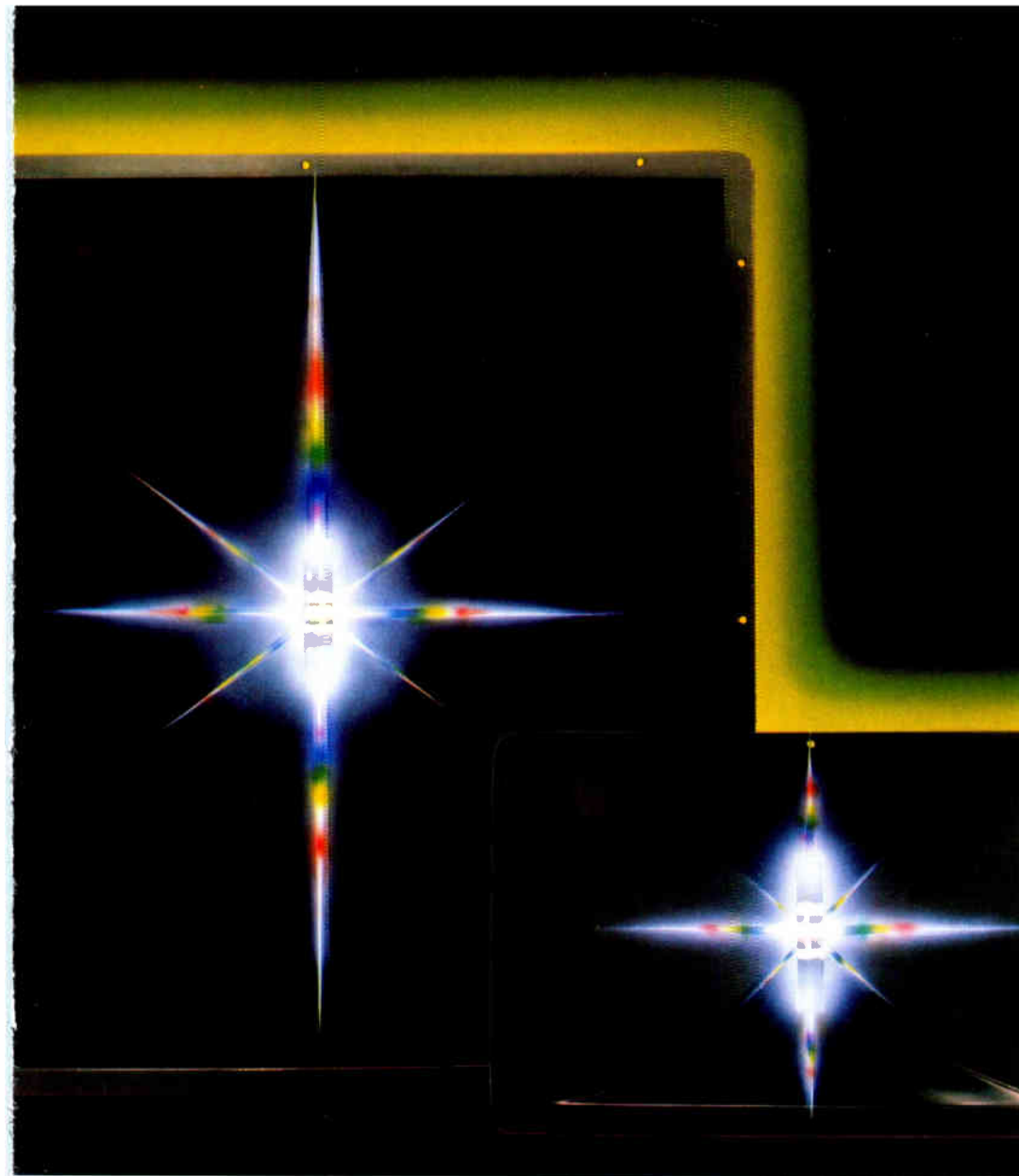
AUGUST 1987

1987

Book

Issue

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BEAR SOUND & COMMUNICATION
21000 W WINFIELD RD CA 90290
TOPANGA



When the Competition Beams, We Just Smile

One problem with ordinary high-frequency horns is that they **beam** above 10,000 Hz. Their coverage angle narrows, so what you hear depends on where you sit.

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DH1A

These vanes, together with TransPlanar™ design and the precision of directivity-optimized size, deliver **the best directivity control in the industry**. Nobody does it better. Only EV, the company that invented the constant-directivity horn, brings you an advanced, second-generation design.

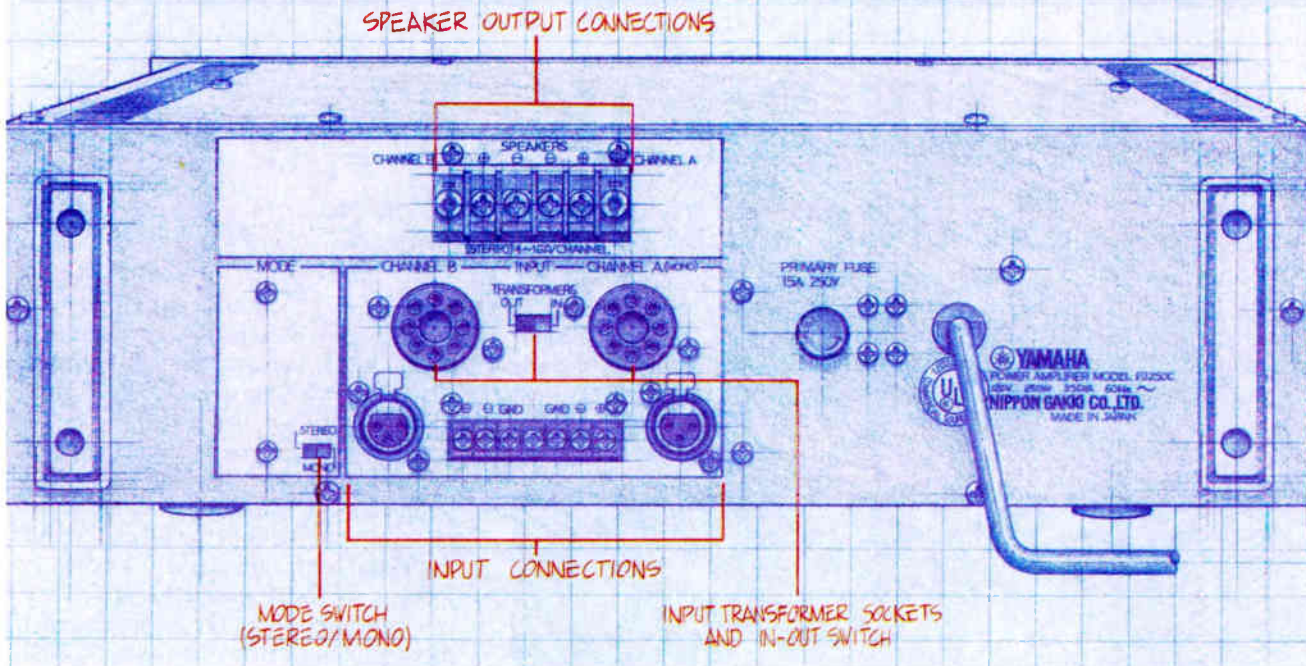
And only EV offers the finest 500-Hz-crossover driver on the market. Coupled to an HP horn, our new DH1A provides more high-frequency output than any other 500-Hz driver. More musical depth. More articulate, natural voice quality. And better transient attack than anyone ever imagined from a compression driver.

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For more information, write Pro Sound, Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107.

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EV Electro-Voice®
SOUND IN ACTION™



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It had to happen. Our original P-Series professional power amplifiers were so popular that we went commercial. Taking all the performance, reliability, and features of those workhorse amps and adding features that commercial applications require.



70.7 AND 25 VOLT OUTPUT TRANSFORMERS

Like calibrated input attenuators for easy, accurate sensitivity adjustment. Recessed control knobs and knob lock daptors to prevent inadvertent setting changes. And both locking XLR and barrier-strip input connectors to ensure lasting connections.



EX. 200W BRIDGEABLE 150V TRANSFORMER

That's on the outside. Inside these new P-Series II amplifiers you'll find the same features that made the P-Series famous in show business. Plus output protection. Electronically balanced and unbalanced inputs. And transformer options to make bridging and

distributed speaker systems easy to put together.

Add to that five different U.L.-approved models delivering from 75 to 250 watts per channel and you can see why the Yamaha P-Series II Power Amplifiers give you exactly what you need in commercial sound amplification.

The Yamaha P-Series II power amps. They're bound to make your next installation a commercial success.

Yamaha Music Corporation, Professional Audio Division, P.O. Box 6600, Buena Park, CA 90622. In Canada, Yamaha Canada Music Ltd., 135 Milner Avenue, Scarborough, Ontario M1S 3R1.



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BLUE BOOK '87— Better Than Ever

Welcome to the biggest and the best *Sound & Communications* **BLUE BOOK**— the industry's only comprehensive "A to Z" reference guide for

sound contractors, suppliers and specifiers! Now in its 27th year, this annual **BLUE BOOK** lists virtually every major category of manufacturers who

supply today's contracting market.

This year's **BLUE BOOK** is over 200 pages — 45 percent bigger than last year's. It includes over 1,500 listings from over 920 companies whose products and systems you bid on, spec and install throughout the year.

The hard-driving efforts of the *Sound & Communications* editorial and marketing staff came up with new ways to make this book a huge success. They carefully weeded out the companies that didn't belong in this book and added the ones that are truly part of this industry. They decided to make the category index more complete by adding different types of systems and products under each of the 46 categories.

Why is the *Sound & Communications* **BLUE BOOK** the most important reference guide to the sound contracting industry? Because it provides a service that no other directory or buyer's guide does. Do you need to know who makes paging systems or who at an intercom company you should talk to about their industrial intercoms? The **BLUE BOOK** has all the answers. It lists all the manufacturers, the products and the manufacturer's key personnel you need to know. Plus, it includes the manufacturer's rep network or district offices, because those offices are often your links with a manufacturer.

In addition to the **Blue Book** Directory, we added a contractor's notebook which includes a calendar of industry events and a list of associations. This handy notebook will help the contractor stay on top of this market.

The **BLUE BOOK** is just one example of *Sound & Communications'* ongoing dedication to the industry that was started 30 years ago... *Sound & Communications* magazine was there... it's still here with an unending commitment to innovative editorial and marketing excellence.

Enjoy.

Vincent P. Testa
Editorial Director/Publisher

Sound & Communications



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you're in Aural Heaven!"**
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SOUND & COMMUNICATIONS

Volume 33 #8

August 1987

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& Index

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Index

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SOUND & COMMUNICATIONS

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ACOUSTICS + TELECONFERENCING
ARTICLE DUE FOR OCTOBER
ISSUE OF SOUND + COMMUNICATIONS

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START PREPARING
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NEW JOB

CONTRACTOR'S NOTEBOOK

1987-1988

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ANNUAL CONTRACTING
BUSINESS REPORT ISSUE

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NSCA IN RENO, NV

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SEND IN
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BLUE BOOK FORM

MUST ATTEND
IAAM
IN NASHVILLE, TN

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LOOK FOR THE
1988 BLUE BOOK

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NSCA (cable)

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1987 Blue Book Products Directory & Index

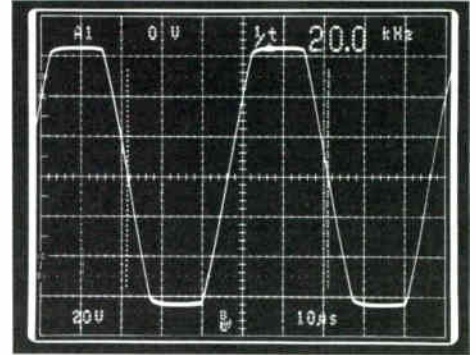
The 46 categories listed in alphabetical order on these two pages start off the Blue Book. To help you find exactly what you're looking for, we've listed different types of systems and products under each category. In addition, a complete manufacture's index begins on page 203, followed by a brand name index on page 210.

ACOUSTICAL TREATMENT	11	absorption; absorptive partitions; ceiling panels; dampening material; diffusion; electroacoustical systems; grille cloth; noise control panels, and enclosures; spray-on absorption materials; vibration isolation materials, systems, and devices; wall coverings; wall panels
ALARM & SECURITY	13	access control; ancillary components; announcement systems; audio surveillance; burglar alarms; CCTV; door-lock systems; duress; fire alarm; intercom; intrusion detection; signalling devices; sirens; smoke detectors; sound equipment; strobes; vibration sensing; video motion detection; video surveillance; wireless systems
ANTENNA SYSTEMS	20	cellular telephone; mobile base; portable; VHF; UHF; frequency and broadband FM antennas; single channel and broadband television antennas
AUDIO AMPLIFIERS	20	70-volt amplifiers; bi-amp systems; dual-channel; low-frequency amplifiers; mixer amplifiers; modular amplifiers; monitor amplifiers; portable; signal processing amplifiers; single-channel; telephone paging amplifiers; tri-amp systems; zone-paging amplifiers
AUDIO SIGNAL PROCESSORS	41	1/3 octave equalizers; ambient noise controlled level controllers; audio/video synchronizers; automatic equalizers, preamps; crossovers; de-essers; digital effects; digital encoding; digital reverbs, digital delays; digital signal processors; equalizers, compressors; graphic equalizers; interface units; levelers; limiters; noise gates; notch filters; parametric equalizers, octave equalizers; signal enhancers; signal metering; transcription preamps; VCAs
AUDIO-VISUAL EQUIPMENT/SYSTEMS	52	A/V speakers; audio for A/V; boardroom sound systems; closed-loop audio systems; computer control; electronic displays; image projectors; intercom; interface units; lecturns; multi-media controls; screens; supplies; wireless control
BACK/BACKGROUND SYSTEMS & LIBRARIES	56	amplifiers; automatic mixers; CATV; CD changers; music libraries, stock and custom; music services; powered speakers; SCA equipment; speakers; tape systems
CABINETS, FURNITURE, CASES, & RACKS	60	accessories; ATA cases and racks; chassis; computer consoles; consoles; electronic racks; enclosure systems, custom cabinets & consoles; equipment cabinets & enclosures; flight cases; furniture systems; hardware; instrument cabinets; modular boxes; molded racks & cases; panels; portable tables; rack AC power; rack fans; rack hardware; shelves, rack-mounts; shock-mount racks & cases; slides; soft cases & bags; specialty cases; stands; storage racks & cases; tables; technical workbenches; tool cases
CARILLONS & CHIMES	70	analog & digital tones for time and signalling; music playback-type
CCTV/VIDEO COMPONENTS & SYSTEMS	65	accessories; cameras; channel converters; computer interfaces; connectors; dummy cameras; effects generators; enclosures; fiber optics; hardware; lenses; message generators; modulators; monitors; multiplexers; pan/tilts; remote controls; signal distribution; specialty cameras; surveillance; switchers; time-lapse recorders; transmission systems; video mixers; video projectors; VTRs
DISCO COMPONENTS & SYSTEMS	70	amplifiers; DJ mixers; headphones; lighting controls & effects; mixers; processors; speakers; sub-woofers; turntable cartridges, and accessories; turntables
HARDWARE & TOOLS	72	cabinet hardware; cable clamps; cleaning chemicals; connectors; fabrication supplies; hanging systems; knobs; lamps; linemen's test sets; markers; panels; raceways, stands; speaker hardware; tool kits; wire pulling devices; wire terminations
HEADPHONES & HEADSETS	74	boom-mic headsets; communications headsets; intercommunications headsets; isolation headsets; personal headsets; stereo headphones; telecommunications headsets; telephone headsets
HEARING ASSISTANCE SYSTEMS	78	closed loops inductive; infrared systems; multi-channel; processors; programmable; wireless systems AM/FM
IN/OUT REGISTERS	79	access control; intercom; manual personnel; medical; monitor reporting; PC-based; telephone reporting; terminal reporting; visual
INTERCOM—APARTMENT/RESIDENTIAL	86	access control; apartment station; custom; duplex; lobby; mailbox panels; microprocessor; music combination; panel/entrance; simplex; talk-back; telephone; video
INTERCOM—DUPLEX	80	closed-circuit; custom; digital; drive-thru; loudspeaking; microprocessor; multi-channel; programmable; telephone; telephone; video/audio; VOX; wireless
INTERCOM—HOSPITAL HEALTH CARE	95	A/V; annunciators; direct select; emergency call; microprocessor; nurse-call; pillow speakers; visual; voice paging
INTERCOM—INDUSTRIAL	99	drive-thru; environmentally protected; headset/handset; loudspeaking; telephone
INTERCOM—INSTITUTIONAL/SCHOOL	92	clock; console; microprocessor; multi-channel; paging; talkback; telephone; video
INTERCOM—PRODUCTION & THEATRICAL	100	handset; headset; IFB; loudspeaker; microprocessor; multi-channel; processors; radio interface; VOX; wireless
INTERCOM—SIMPLEX	84	closed-circuit; custom; digital; IFB; loudspeaking; microprocessor; multi-channel; programmable; telephone; video/audio; VOX; wireless
LIFE-SAFETY & VOICE EVACUATION SYSTEMS	102	audio; DC battery supply; emergency intercom; handset; horns; loudspeakers; message announce; tone; visual

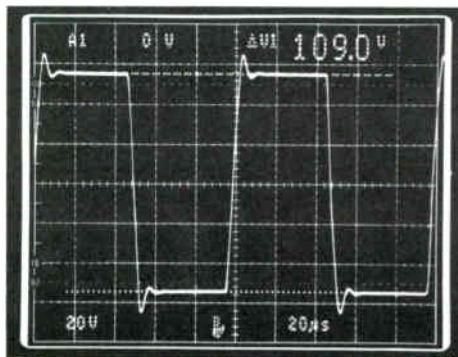
LOUDSPEAKER ACCESSORIES	125	SIGNALING SYSTEMS	201
attenuators; baffles; connectors; crossovers; enclosure hardware; enclosure; grille cloth; grilles; mounting devices; mounting hardware; stands; transformers		alarm; annunciator; audio; bell; call-light; intercom; telephone; tone; visual	
LOUDSPEAKERS	104	SOUND MASKING PRODUCTS & SYSTEMS	181
ceiling; columns; compact; components; custom; decorative; environment protected; explosion-proof; flush-mount; foreground; full-range loudspeakers; high-frequency drivers; high-power; horns; low-frequency drivers; mid-bass; monitor panels; multi-way/high-powered; music system speakers; noise masking; omni-directional; outdoor; PA horns; paging horns; paging; portable; powered; processor controlled; stage monitors; studio/reference monitors; sub-woofer; surface-mount; systems; talkback; tweeters; underwater; voice communications		central; graphic equalizers; loudspeakers; noise generators; processors; programmable; self-contained; zoned	
MAGNETIC TAPE SYSTEMS & SUPPLIES	132	TELECONFERENCING SYSTEMS	183
cart recorders/players; carts; cassette players & changers; cassette recorders; cassette tape; cleaners; degaussers; demagnetizers; heads; high-speed duplicators; labeling systems; multi-tracks; reel tape; reel-to-reel recorders & players; tape splicers; test tapes; transcription systems; videotape		automixing; manual; microphone specific; microprocessor; telephone interface	
MESSAGE REPEATERS/STORECASTERS	136	TELEPHONE SYSTEMS—KEYPHONES	184
digital systems; cart machines; message units; digital voice recording; sign systems		intercom; digital; DTMF; microprocessor; modular; multi-line; multi-user; paging; programmable; pulse; systems	
MICROPHONES	137	TELEPHONE SYSTEMS—PBX	184
body packs; boundary; carbon; communications; condenser; contact pickups; dynamic; electret condenser; goosenecks; hand-held; headset boom; implant; instrumentation; mic-splitters; miniature; podium; push-to-talk; ribbon; shotgun; specialty; stands; stereo; wireless		Centrex; digital; digital; intercom; microprocessor; modular; multi-line; multi-user; paging; programmable; systems	
MIXERS & MIXING CONSOLES	148	TELEPHONE SYSTEM—PERIPHERALS	185
automatic; broadcast; combo; compressor/leveler; computer controlled; custom; digital; disco; ENG; gated; microprocessor; MIDI; modular; monitor; paging; portable; powered; production; rack-mount; recording; theatrical; VCA		accounting; annunciators; answering interfaces; answering; auto dialers; call routers; computer interfaces; displays; DTMF components; headsets; indicators; messaging; multiplexers; music; networking; paging systems & equipment; personal listening devices; ringers; test sets; tools; voice mail; voice-data compression; voice/data systems	
PAGING SYSTEMS	160	TEST EQUIPMENT & TOOLS	187
AM/FM; amplifiers; common-talk; DC battery backup; mixer/amplifier; mixer/preamps; modular; music distribution; pocket-pagers; processors; SCA pager; self-amplified speakers; signalling; speakers; talkback; telephone; zoned		AM stereo testing; analog multimeters; audio tape diagnostics; bench-top instrumentation; cable testers; calibrated noise sources; calibrated plane wave tube systems; car audio testing; data acquisition; digital multimeters; digital panel meters; digital storage oscilloscopes; distortion analyzers; DSP hardware; DSP software; dual-channel spectrum analyzers; electronic tools; FFT-spectrum analyzers; filter sets; FM stereo testing; frequency comparators; frequency-domain acquisition/analysis; function generators; hand-held instruments; linemen's test sets; logic analyzers; metering systems; microprocessor systems; MTS test equipment; noise & vibration analyzers; oscilloscopes; PC systems, software; plotters; precision amplifiers; realtime analyzers; RF signal generators; RT60 meters; sound intensity measurement equipment & microphones; speech transmission analysis; SPL meters; stress and load meters; time-domain acquisition/analysis; tool kits; transducers; transmission link testing; vector scopes; video test signal generators; waveform recorders	
PATCH BAYS & ROUTING SWITCHERS	165	TUNERS & CD PLAYERS	193
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inverters; line isolators; line protectors; noise suppression; outlet strips; power control; power conversion; power relays; transformers; uninterrupted power		accessories; adapters; alarm; audio; computer cable & peripherals; conduits; connectors; control; data; fiber optics; fuses and holders; hardware; hybrids; jacks; low-capacitance; markers; panels; plenum cable; plugs; pre-wired systems; raceways; security; shielded; sleeving; solid; specials; stranded; switches; telecommunications; terminals; transformers; tubing; video; XLR connectors	
PRO-AUDIO SOUND SYSTEMS & PRODUCTS	169	WIRE/CABLE SYSTEMS	200
audio processors; auxiliary accessories; distribution systems; interface devices; loudspeaker systems; PA systems; sound reinforcement systems		audio; cable reels; custom; data; direct boxes; fiber optics; instrument; mic cable testers; microphone cable, snakes; MIDI; multi-pair; multi-pin disconnect; panels; speaker; splitting; stageboxes; video;	
REMOTE CONTROLS	179		
A/V; audio level; boardroom; custom; DTMF; EQ/remote; hardwired; microprocessor; remote monitoring; video; wireless			

Knowledge is Power.

The more you know about RAMSA power amps, the better they look. Designed for stability and reliability,* they reflect our knowledge of the most demanding applications. And their graceful overload



The WP-9920 exhibits gentle overload characteristics even when overdriven 3dB into 4Ω Load at 20 kHz (643 Watts).



The WP-9220 exhibits minimum ringing even with extremely reactive loads. (8Ω, 1μF; 10 kHz square wave input.)

characteristics dramatically improve apparent headroom. To learn more, see your RAMSA dealer, or write to 6550 Katella Avenue, Cypress, CA 90630.

*Ramsa amplifiers carry a 5-year limited warranty.

RAMSA

Panasonic
Industrial Company



Circle 187 on Reader Response Card
World Radio History

2 Channel Power Amplifier WP-9220

ACOUSTICAL TREATMENTS

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Production Mgr.: Larry Lubliner
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Alcoa, 1501 Alcoa Bldg., Pittsburg, PA, 15219, 412-553-3770

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Sales Administrator: Kathy Fitzgerald
Acoustic Salesperson: Bobbie Winn
General Manager: Eric Johnson
Products: acoustic products.

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Technical: Mike Nemeth
Customer Relations: Lisa Ehrlich
Products: Tube Traps™, a complete line of sound absorption/diffusion devices. Prefabricated and portable Tube Traps™ provide absorption to 20 Hz and diffusion above 400 Hz. From room resonances to hall articulation, Tube Traps™ control performing, recording and listening room acoustics.
District Offices:
Rich Lomax, N. Hollywood, CA, 818-763-9587
Sam Lynn, Chicago, IL, 312-657-7787
Larry Moore, Kaslo, BC, CD, 604-353-2423
Gary Douglas, Tokyo, Japan, 03-478-2709
Stefano Rama, Lucca, Italy, 0583-581327

AVL Systems, Inc, PO Box 2267, Orlando, FL, 32802, 305-298-9111

BLI Corp., 33 Parker Ave., Stamford, CT, 06906, 203-325-3883

Bostick, Boston St., Middleton, MA, 01949, 617-777-0100

Capaul Corp., 1300 Division St., Plainfield, IL, 60544, 815-436-8500, 800-421-8368
V.P. Sales: Craig Lindblad
Products: high-performance acoustical ceiling and wall panels for commercial office interiors. Standard or C.O.M. fabric and durable vinyl facings available on most products.
District Offices:
LaVigne-Muffie, Inc., Santa Fe Springs, CA, 213-692-9074
ALI, NYC, NY, 212-620-3086
Judkins, Assoc., Baltimore, MD, 301-234-0010
MBK, Boston, MA, 617-269-0629
Designed Performance, Dallas, TX, 214-458-1655

Celotex Corp., PO Box 22602, Tampa, FL, 33622, 813-871-4811

Certainteed Corp. (Insulation Group), PO Box 15080, Kansas City, KS, 66115, 913-342-6624

Controlled Acoustics Corp., 221 E. Hartsdale Ave., Hartsdale, NY, 10530, 914-725-1700

Conwed Corp./Ceiling Prod. Div., 332 Minnesota St., St. Paul, MN, 55101, 612-221-1184

Cornell Electronics Products, Inc., 4911 W. Good Hope Rd., Milwaukee, WI, 53223, 414-351-4660
President: Donald Glaubitz
V.P. and Chief Engineer: Gary Butler
Sales Manager: Pauline Haack
See full listing under **Intercom Hospital Health Care**

Doug Biron Assoc., Inc., PO Box 413, Buford, GA, 30518, 404-945-2929

Duracote Corp., 350 N. Diamond St., Ravenna, OH, 44266, 216-296-3486

Eckel Industries Inc., 155 Fawcett St., Cambridge, MA, 02138, 617-491-3221
President: Alan Eckel
Vice President: John W. Flood
Engineering Sales: Jeff Morse
Sales Coordinator: Joe McDonough
Products: acoustical treatment, functional sound absorptive panels for auditoriums, gyms, computer rooms, offices, etc. Medical test rooms (audiometric), research rooms (anechoic), noise control panels and enclosures, and engineered custom noise control treatments.

General Design Group, 3664 W. 2100 Street, Salt Lake City, UT, 84120, 801-973-6497
President: Per Haugen
Vice President: Perry Haugen

Sec. Treasurer: Harold Haugen

Designer: Mark Vought

Designer: Kari Nielson

Products: acoustical panels that provide excellent absorption for use in commercial, industrial and recreational environments. Is an easy-to-install, durable, and aesthetically versatile absorption unit, with a noise reduction coefficient (NRC) of 1.0.

District Offices:

General Communications, Inc., Murray, UT, 801-266-5731

Industrial Acoustics Company, 1160 Commerce Ave., Bronx, NY, 10462, 212-931-8000

Insul-Art Acoustics Corp., 107 Allen Blvd., Farmingdale, NY, 11735, 516-694-0002, 800-526-0908

President: Jack D. Leonard

Vice President: Harold Goldstein

Sales Coordinator: Johnathan Leonard

Sales Coordinator: Marge Lohr

Plant Manager: Richard Brunson

Products: Centralite sound masking system, 1/3 band equalizer with built-in noise source, matching preamp and amplifiers. Satellite sound masking system, 10 band equalizer with preamp and noise source, all built in. Scamp sound masking system, self-contained speaker with noise source built in, and volume control.

See full listing under **Sound Masking Products & Systems**

Insul-Coustic Corp., Jernee Mill Rd., Sayerville, NJ, 08872, 201-257-6674

Johns-Manville Corp., Ken-Caryl Ranch, Denver, CO, 80217, 303-979-1000

Korfund Dynamics Corp., PO Box 235, Westbury, NY, 11590, 516-333-7580

Mason Industries, Inc., 350 Rabro Dr., Hauppauge, NY, 11788, 516-348-0282

President: Norman J. Mason

Vice President: Patrick J. Lama

National Sales Mgr.: Rick Sabilia

E. Reg. Sales Manager: Steve Fey

W. Reg. Sales Manager: Rich Lloyd

Products: architectural acoustical treatments consisting of Jack-up Floating Floor systems, isolated walls and isolated suspended ceilings. Engineered noise and vibration control systems.

Mason Industries, Inc., Anaheim, CA, 714-535-5738

Mellotone, 108 Church St., Blacksburg, SC, 29702, 803-839-6341

Manager: Sherrie Traub

Products: acoustical fabrics to assure unobstructed, distortion free passage of sound. The fabric is dust resistant, mildew proof and has a zero flame spread rating.

District Offices:

Raleigh Perry & Assoc., Buford, GA, 404-945-3142

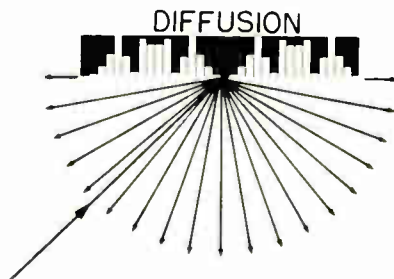
David L. Brothers, Finksburg, MD, 301-833-0920

National Cellulose Corp., 12315 Robin Blvd., Houston, TX, 77045, 713-433-6761

The RPG Diffusor Revolutionizes Acoustical Design



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Dobbins Theatre. San Francisco

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The RPG is a new modular computer-designed reflection-phase grating, based on mathematical number-theory sequences. The RPG scatters sound from any direction, in all directions — for any desired frequency bandwidth. Now you can easily eliminate flutter and slap echos, while maintaining a natural ambiance; provide diffuse lateral reflections which increase the spatial impression; improve intelligibility and provide ensemble reflections. **Call or write for our free brochure.**

SELECTED DIFFUSOR USERS

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American Management Assoc, NY
BBC Maida Vale 4, London
Chrysler Hall, Norfolk
Dobbins Theatre, San Francisco
Limelight Video, Miami
NBC-TV Studios, NY & Burbank
NFL Films, Mt. Laurel
NPR, Washington, D.C.
Ordway Theatre, Minneapolis
Spring Woods Band Hall, Houston
Swaggart Ministries, Baton Rouge
Word of Faith Network, Dallas

APPLICATIONS

Recording/Broadcast/Post Facilities
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Music Rehearsal Rooms • Auditoriums
Audiophile Home Listening Rooms
Performing Arts Facilities • Schools



RPG Diffusor Systems, Inc. 12003 Wimpleton St., Largo, MD 20772 Phone 301-249-5647 Telex 5106004126 RPG
RPG Europe — Phone 01-900-0355 Telex 935847 CETECA G RPG Far East — Phone 3-7446189 Telex 393097 POSOD HX

Patent Pending

Circle 263 on Reader Response Card

Northern Sound, 2401 Lowry Ave. NE, STE 201,
Minneapolis, MN, 55418, 612-788-9296
Products: materials for noise control, measurement of
sound.

O'Brien Partition Co., 5301 E. 59th Street, Kansas City,
MO, 64130, 816-361-2334
Products: wall treatments.

Owens Corning Fiberglass Corp., Acoustic Products Div.,
Grandville, OH, 43023, 614-587-9610

Pittsburgh Corning Corp., 800 Presque Isle Dr.,
Pittsburgh, PA, 15239, 412-327-6100

Proudfoot Co., Inc., PO Box 9, Greenwich, CT, 06830,
203-869-9031

Pyrok Inc., 136 Prospect Park West, Brooklyn, NY, 11215,
718-788-1225
Pyrok materials.



RPG Diffusor Systems, Inc., 12003 Wimpleton St.,
Largo, MD, 20772, 301-249-5647

President/CEO: Dr. Peter D'Antonio

Vice President: Dr. John Konnert

Production Mgr.: Doug Morgan

Accounting: Dr. Judy Konnert

Products: a complete acoustical treatment system
consisting of a broad-bandwidth sound diffusor, the QRD
DIFFUSOR®, a broad-bandwidth sound absorber, the
ABFFUSOR® and a variable acoustics module, the
TRIFFUSOR™.

District Offices:

RPG Europe, Wembley Middlesex, U. K., 01-900-0355

Sims Vibration Dynamics, 17724 15th Ave. N.E., Seattle,
WA, 98155, 206-362-0700

Soundcoat Co., Inc., 175 Pearl St., Brooklyn, NY, 11201,
212-858-4100

Sound Control Technologies, Inc., 114A Washington
Street, Norwalk, CT, 06854, 203-854-5701

President: Adolph Neaderland

Sales/Mkt'g: David Neaderland

See full listing under **Teleconferencing Systems**

Soundforms, PO Box 1588, Lemon Grove, CA, 92045,
619-753-4634, 800-822-0354

Marketing Manager: Lee Benelli

Operations Manager: Phillip Neal

Products: Soundforms Sound Control Systems are
portable sound baffles that are lightweight and modular.
Panels easily snap together to form SoundWalls of any
size, SoundBooths of SoundRooms. Used on-location or
in studio.

District Offices:

Adventure Communications, Inc., San Diego, CA, 619-
753-4634

Thermocon Products Co., 2508 Marlin Hwy., Waco, TX,
76705, 817-756-3713

USG Corp., 101 S. Wacker Dr., Chicago, IL, 60606, 312-
321-3865

Vibration Specialty Corp., 100 Geiger Rd., Philadelphia,
PA, 19115, 215-698-0800

Wenger Corp., PO Box 448, Owatonna, MN, 55060-0448,
507-451-3010

ALARM & SECURITY

Adpro Pty. Ltd., P.O. Box 324, Chester, NJ, 07930, 201-
879-4159

Products: video motion detection systems.

AES Corp., 285 Newbury St., Peabody, MA, 01960, 617-
535-7310

President: Michael J. Sherman

V.P. Sales: Anthony Albano

V.P. Consulting: Philip Huntley

Marketing: Brian Rockett

Products: integrated electronic security systems for
commercial and residential applications, domestic and
overseas. Intrusion detection, duress, emergency
response, CCTV, access/door control systems. Full
consulting and design services.

Aiphone Intercom Systems, 1700 130th Ave. N.E. ,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking,
telephone-type, video intercom entry systems, paging
talkback, microprocessor intercom systems, mixer
amplifiers, paging speakers, horns, drivers, ceiling
speakers, tuners, and special order products.

See full listing under **Intercom Duplex**

Alarm Controls Corp., 19 Brandywine Dr., P.O. Box 280,
Deer Park, NY, 11729, 516-586-4220

President: Howard Berger

General Manager: John Benedetto

Products: electronic security equipment and all
accessories.

Alphametrics Controls Corp., 4865 Pasadena Ave.,
Sacramento, CA, 95841, 916-485-4051

Ambeti Corp., P.O. Box 395, Westland, MI, 48185, 313-
326-3007, 800-223-5274

AMSECO, 228 E. Star of India Lane, Carson, CA, 90746,
213-538-4670, 800-421-1096

Amtel Security Systems, Inc., 8525 N.W. 53rd Terrace,
Miami, FL, 33166, 305-591-8200

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026,

Director of Sales: Paul Grote
E. Region/Sales: Andy Musci
W. Region/Sales: Bud Waters
V.P., Consultant for Mkt'g.: Herbert Jaffe
Products: UL-listed re-entrant and cone type
loudspeakers, audio-visual signal devices for indoor and
outdoor installation in conjunction with security, life-safety
and fire alarm systems. Incandescent and strobe lights,
piezo and chime annunciators, siren generators.
See full listing under **Loudspeakers**

Auth Company, 505 Acorn St., Deer Park, NY, 11729,
516-667-9000
Products: intercom, nurse call, fire alarms, telephone
access intruder, all needs for the multihousing market.

Bogen Communications, Inc., PO Box 575, 50 Spring St.,
Ramsey, NJ, 07446, 201-934-8500
P John H. Ochtera
V.P. Marketing: Carl C. Dorwaldt
Nat'l. Sales Mgr.: David A. Chambers
Products: commercial sound and communication systems
and equipment, including amplifiers, mixer-preamplifiers,
loudspeakers and horns (including amplified types),
telephone paging equipment, FM/AM tuners and
receivers, intercoms, microphones, centralized sound
systems, audio surveillance monitor.
See full listing under **Audio Amplifiers**

C&K Systems, Inc., 2040 Fortune Dr., San Jose, CA,
95131, 408-434-1149, 800-227-8065
Products: burglar alarms

Cambridge Electronics Laboratories, 20 Chester St.,
Sommerville, MA, 02144-3005, 617-629-2805
President: Dr. Jeffrey Race
Sales Manager: Charlotte Bissell
Products: telecom accessories including PABX/Key
System music-on-hold source, mini telephone ringing
generator, and Quiklink™ self-contained automatic ring-
down unit for office, residence, and security use as a
"hotline" and sales/trade-show use as a CO line simulator.
See full listing under **Telephone System Peripherals**

Cepco, 21515 Parthenia St., Canoga Park, CA, 91304,
818-998-7315

Communications Equipment Co., Inc., 6443 Western Ave.,
Glen Arbor, MI, 49636, 616-334-3081
President: Darrell W. Thomas
Sales Manager: Thomas A. Garmhausen
Products: audio surveillance systems, detecting and
locating crashes, screams, etc., in public buildings, parking
garages, penal institutions. Large rack-mounted systems
for station capacities in 25-station increments; smaller units
in 5-station increments. Intercom and all-call features.

Computational Systems Inc., 1900 N. Winston Road,
Knoxville, TN, 37919, 615-693-0551
Products: surveillance systems, vibration monitoring
equipment/instrumentation.

Computer Application Systems, Inc., 552 NW 77th St.,
Boca Raton, FL, 33431, 305-997-9660

Conquest Electronic Wire & Cable, 7319 Duvan Dr.,
Box 757, Tinley Park, IL, 60477, 312-429-1770, 800-323-
7671, in IL 800-344-2667
President: Robert Jares, Jr.
Vice President: Larry Spalla
Sales Manager: Al Novak
Plant Manager: Mike Sanfilippo
Plant Manager: Dennis Wood
Products: 250 types of bulk wire including alarm, security,
co-ax, plenum, telephone, multi-pair audio, microphone,
speaker, multi-conductor unshielded, data transmission,
computer, station, TELCO cables, computer cables.

De-Tech Systems Inc., 3407 Rose Ave., Ocean, NJ,
07712, 201-918-0800

Detection Systems, Inc., 130 Perinton Pkwy., Fairport, NY,
14450, 716-223-4060, 800-521-0096

DIA General Inc., 47 Kearney Rd., Needham, MA, 02192,
617-449-1533

Diamond Electronics Inc., P.O. Box 200, Lancaster, OH,
43130, 614-756-9222, 800-443-6680

Dorado Systems Corp., 1842 Sabre St., Hayward, CA,
94521, 415-783-2000
Products: access control product.

Electro-Vox Industries, Inc. (Santel Group), 2626 Bates
Rd., Montreal, Quebec, Canada, H3S 1B2, 514-731-3771

Elenex, Inc., 7392 Trade St., San Diego, CA, 92121, 619-
566-7515
President: Sten Persson
V.P. Marketing: Dennis Berglund
Product Sales: Dave Arseneau
Business Manager: Sally Marshall
Products: Freedom™ wireless drive-thru communications,
Moducom™ intercom for drive-thru/correctional high-noise
applications, vehicle sensing equipment, Touch-Mic™
microphone systems, amplifiers, horns, and speech
processing systems.
See full listing under **Intercom Duplex**

Emergency Products Corp., 10 Bloomfield Ave.,
Pinebrook, NJ, 07058, 201-882-8010, 800-631-8054
President: Willard Nix
Gen. Sales Manager: Norman S. Carlo
Chief Engineer: Ken Bergstorm
Products: full line of quality fire alarm products to service
the sound industry from basic systems to sophisticated.
District Offices:
NE., Bob Bernstein, 201-882-8010
Mid-Central, Mike McMahan, 312-843-8800
West, Dan Lopez, 213-327-0001
S.W., Jim Devlin, 214-556-1426
S.E., Rick Elder, 404-691-4844

Fire Burglary Instruments, Inc., 50 Engineers Road,
Hauppauge, NY, 11788, 516-582-6161

Firecom/Auth Co., 39-27 59th Street, Woodside, NY,
11377, 718-899-6100

Floyd Bell Inc., 897 Higgs Ave., Columbus, OH, 43212,
614-488-3193
PMC 20 alarms & tone ringer.

Fourjay Industries, Inc., 3400 Stop Eight Road, Dayton,
OH, 45414, 513-890-6444
President: J. M. Fulkerson II
Director of Sales: M. W. (Bud) Frawley
Products: ceiling white recessed baffles, time saving baffle
mounting devices, protective covers, wall baffles and
music speakers, horn speakers for paging/talkback,
intercom, telephone and security systems.
See full listing under **Loudspeakers**

Gentex Corp., 10985 Chicago Dr., Zeeland, MI, 49464,
616-392-7195
Products: smoke detectors, rear view car mirrors.

Home Safeguard Industries Inc., 29706 Baden Place PO
Box 4073, Malibu, CA, 90265, 213-457-5813
President: Leon Cooper
Vice President: Wm. Haines
Products: "Smoke Detector Tester," a hand-held aerosol
device for testing all kinds of smoke detectors. A 1 to 2
second spray will give the user assurance that the smoke
detector is operating satisfactorily.

Intelligent Controls, Inc., 6825 216th St. SW, Lynnwood,
WA, 98036, 206-771-8107, 800-842-0221, in Canada
800-843-0221
President: Robert Percival
V.P. Sales/Mkt'g.: Ronald I. Katzin
V.P. Eng.: Brian Mallabon
V.P. Finance: Jeff Kruse
Products: barcode readers for card access control
systems. User may print own barcode and make own cards
on site. Readers are intelligent for stand alone or
networked on one pair of wires.

District Offices:
Sesco-Mid Atlantic, Toms River, NJ, 201-929-1705
Garreau & Assoc., Atlanta, GA, 404-458-8030
Repworks, Inc., Chicopee, MA, 413-533-0845
Keith Parker & Assoc., Northbrook, IL, 312-498-0353
Rittner Products, Rochester, MI, 313-651-1333

J. W. Davis & Co., 3030 Canton Street, Dallas, TX,
75226, 214-651-7341, in TX, 800-442-1564, Nationally
800-527-5705
President: Charles Griffiths
Vice President/Sales: Jack W. Tucker
Products: Patronis Pataxial Speaker Systems PA-150 and
PA-70, Bessel Array Columns.
See full listing under **Audio Amplifiers**

Jensen Video Sonics, 11 West Park Boulevard, Villa Park,
IL, 60181, 312-833-1767

Lee Dan Communications, 155 Adams Ave.,
Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-
231-1414, USA 800-LEE DAN1
President: Leon Goldberg
Sales Manager: Lawrence J. Goldberg
V.P. Finance & Administration: David H. Goldberg
Chief Engineer: Sanford Hoffman
Sales/Service Representative: Linda E. Scaturro

Products: audio/visual communications systems providing
effective security with the DS-100 door-sentry intrusion
annunciators. Com-CARE emergency call systems for
health care facilities.

See full listing under **Intercom Apartment/Residential**

LeFebure, 308 29th Street NE, Cedar Rapids, IA, 52406,
319-366-2771

Louroe Electronics, 6158 Lemona Ave., Van Nuys, CA,
91411, 818-994-6498
President: Louis F. Weiss
Marketing Director: Lillian Turnbull
Prod./Purchasing Mgr.: Robert Graff
Products: audio surveillance equipment for monitoring
parking structures, elevators, stairwells, prison cells,
therapy rooms, etc. This equipment was designed to verify
all sound within a designated area. The multi-functional
base station is vox controlled, and any utterance above a
reset ambient level will put the system into an alarm state.
District Offices:
Givan Assoc., West Boylston, MA, 617-835-3161
E. A. Garreau Assoc., Atlanta, GA, 404-458-8030
Repcoa, Dallas, TX, 214-363-0977
Warren Assoc., Santa Clara, CA, 408-988-7762
Eesco Systems, Los Angeles, CA, 818-242-8823

MacKenzie Laboratories, Inc., 5507 Peck Rd., Arcadia, CA
91006, 818-579-0440, 800-423-4147
President: Addison R. Taylor
V.P./Chief Engineer: Nagy Khattar
Sales & Systems: Joe Vitale
Products: solid-state, digital audio message repeaters,
heavy-duty, endless-loop message repeaters, voice alarm
and evac. equipment, voice security equipment,
boardroom A/V equipment control systems.
See full listing under **Message Repeaters/Storecasters**

Marlee Electronics Corp., 900 W. Olive St., Englewood,
CA, 90301, 213-568-8982

MG Electronics, 32 Ranick Rd., Hauppauge, NY, 11788,
516-582-3400, FAX: 516-582-3229
President: Louis Maltz
Vice President: Elliott Maltz
Sales Manager: Stan Grey
Products: commercial sound and security speakers,
paging horns, electronic sirens, general replacement
speakers, OEM speakers (custom design available),
foreground music speaker systems, and toggle switches.
See full listing under **Loudspeakers**

Mitel/Datacom, Inc., Hallmark Building, Suite 553, 13873
Park Center Road, Herndon, VA, 22071-3279, 703-471-
1000
Products: modems British telecommunications, phone
enhancements.

Napco Security System, 6 DiTomas Court, Copiague, NY,
11726, 516-842-9400, 800-645-9445

Navco Security Systems, 16600 Aston Street, Irvine, CA,
92714, 714-250-4352, 800-221-0819
Products: video surveillance.

Orevox Corp., 512 35th St. NE, Auburn, WA, 98002, 206-735-0220, 800-237-0700

CEO: Daniel Wu

Sales Mgr.: Russ Stanford

Products: loudspeakers specializing in foreground speakers, outdoor paging and intercom speakers, self-contained sirens, metal siren/speaker enclosures, and metal utility cabinets for residential and commercial applications.

See full listing under **Loudspeakers**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Squeglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Pinkerton Controls System Corp., 1123 E. Walnut Street, Carson, CA, 90746, 213-638-0400

Products: axis control equipment.

Powertronix, 10623 Lawson River Ave., Fountain Valley, CA, 92708, 714-963-5411

President: Robert Gehlke

Sales Mgr.: Bill Organ

Products: self-contained 200 watt voice evacuation system; 400 watt current drive distribution amplifiers with 24V-48VDC emergency back-up power capability; 24VDC mobile amplifier with three electronically-switched, prioritized inputs.

See full listing under **Audio Amplifiers**

Progressive Electronics, Inc., 325 S. El Dorado, Mesa, AZ, 85202, 602-966-2931, 800-528-8224

President: Richard L. Anderson

Sales Mgr.: Scott D. Anderson

Engineer: Brian D. Clark

Sales Rep.: Michael J. Horn

Sales Rep.: Rich Anderson, Jr. (RJ)

Products: specialized in tone test sets to identify wires and measure resistance, and locators to find wires behind walls.

Pulnix America, Inc., 770-A Lucerne Drive, Sunnyvale, CA, 94086, 408-733-1560, 800-445-5444

Products: photoelectric controls.

Pyrotronics, 13281 Barton Circle, Whittier, CA, 90605, 213-946-7646

Products: fire detection.

Reliable Security Systems, Inc., 10604 Beaver Dam Road, Cockeysville, MD, 21030, 301-785-3316, 800-638-5865

Rofu International Corp., 5331G Hempstead Way, Springfield, VA, 22151, 800-255-763

Products: electric strike doors.

Securitron Magnalock Corporation, 1815 W. 205th Street, Suite 103, Torrance, CA, 90501, 213-618-0204, 800-MAG-LOCK

Security Intercom Inc., 1833 No. 15th, Seattle, WA, 98133, 206-523-6170

Products: video entry control systems.

Security Resources, 21 Castle Avenue, Fairfield, CT, 06430, 203-334-3233, 800-243-2878

Products: cameras.

Select Engineered Systems, 7991 W. 26th Ave., Hialeah, FL, 33016, 305-823-5410

Products: access control.

Silent Watchman, 2461 McGaw Road, Columbus, OH, 43207, 614-491-5200, 800-848-2872

Sonitrol Corp., 6161 Lake Ellenor Drive, Orlando, FL, 32809, 305-859-3350, 800-327-2834

Sony Security, 15 Essex Rd., Paramus, NJ, 07652, 201-368-5000

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multitesters & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.

See full listing under **Audio Amplifiers**

T.S.K. Electronics, Inc., 564 Young St., P.O. Box 190, Tonawanda, NY, 14151-0190, 716-693-3916

President: Theodore S. Kedzierski

Chief Engineer: Kevin T. Kedzierski

Products: zero-level loudspeaking intercommunication systems for use on very long twisted or leased telephone lines, communication system design and fabrication, audio detection systems and warehouse telephone intercoms.

See full listing under **Intercom Industrial**

Tektone Sound & Signal Mfg. Inc., 1331 S. Killian Dr., Lake Park, FL, 33403, 305-844-2383, FAX: 305-845-1587

President: Manuel Mira

General Manager: Carlos Mira

Sales Mkt'g Director: Tom Hendricks

Chief Engineer: Jim Switzer

Products: intercom/video intercom systems, vandal resistant lobby panels, telephone entry control systems, intruder alarm system, UL listed nurse call and emergency call systems.

Q ● ● Where can I find the right power amplifier for my stadium installation?



A ● ● The annual Sound & Communications BLUE BOOK has all the answers. Whether it's stadium power amplifiers, graphic equalizers, intercoms, CCTV monitors, or background music receivers . . . you can find it all in the BLUE BOOK — the purchasing directory of manufacturers.

See full listing under **Intercom Apartment/Residential**

Tel-tron (Division Radio Manufacturers Inc.), 220 Fentress Blvd., Daytona Beach, FL, 32014, 904-255-1921, 800-874-5622

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538
President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: Engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

TOA Electronics, Inc.—Security Group, 480 Carlton Ct. S.,

San Francisco, CA, 94080, 415-588-2538

Products: Video observation systems including video cameras, monitors, switchers, remote control equipment, rack mounting equipment, and video camera equipment.

Transcience, 179 Ludlow, Stamford, CT, 06902, 203-327-7810, 800-243-3494

Products: supervised wireless security systems.

UNIVERSITY SOUND, Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Chief Engineer: Earl Harris

Marketing Mgr., Commercial Products: W. Douglas Wilkens

Products: complete line of horns, drivers, speakers, and transformers.

See full listing under **Loudspeakers**

VCS, Inc., 262 Carlton Dr., Carol Stream, IL, 60188, 312-690-1400

President: Matthew J. Tumillo

V. P. of Marketing: Jack O'Neill

V. P. of Finance: Dwight Dreger

National Sales Manager: Debbie Rust

Director of Engineering: Donald Null

Products: Audio and video security equipment including CCD, 2/3", 1" High Performance, and Low Light Level cameras; monitors, video processing equipment, digital control systems, computer based card access and specialty systems.

Visual Methods Inc., 35 Charles Street, Westwood, NJ, 07675, 201-666-3950

Products: access control system & CCTV components.

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707

President: P. W. Tarlton

V.P. Mktg/Sales: W.L. Goldstein

V.P. Engineering: Stephan W. Andrews

Market Mgr. Tel./Paging: Art Arlow

Market Mgr. Life Safety/Ind.: Rein Haus

Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications.

Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.

District Offices:

Joseph McCaffrey, W.-Mid-W. Reg Mgr., IL, 312-790-2898

Frank Malloy, S. Reg. Mgr., GA, 404-394-8813

Stephen Goldberg, Mid-Atl. Dist. Mgr., NJ, 609-448-1457

Peter Koehler, S.W. Dist. Mgr., TX, 214-350-1232

Whelen Engineering Co., Inc., Rte. 145, Winthrop Rd., Chester, CT, 06412-1036, 203-526-9504

President: John Olson

General Sales Manager: Howard Berke

International Sales Mgr.: Keith Nelson

Advertising Director: Wendy Roulier

Products: audible and visual signaling devices for automotive and industrial applications, including strobe and rotating beacons, lightbars, vehicle sirens and public address systems.

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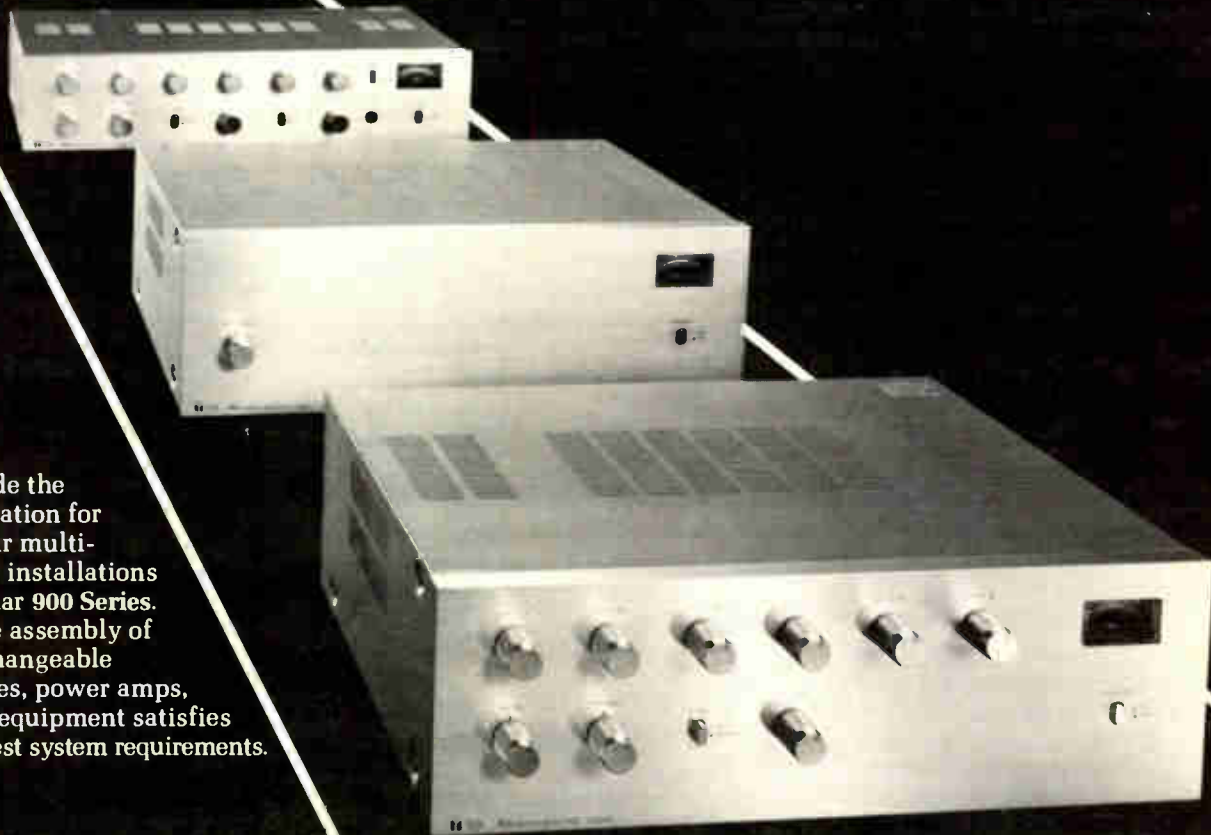
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Circle 205 on Reader Response Card

ANTENNA SYSTEMS

Antenna Specialist Co., 30500 Bruce Ind. Pkwy,
Cleveland, OH, 44139-3996, 216-349-8400

Dir. of Nat'l Sales: Robert Levy

V. P. Product Mkt'g/Sales: Larry Kline

W. Reg. Manager: Patricia Fritz

E. Reg. Manager: Ray Ditomas

Products: antennas for land mobile and cellular telephone systems. Mobile base, and portable applications that cover VHF, UHF, 800 MHz, and are designed for vehicle, boats, aircraft and towers.

Antennacraft, PO Box 1005, Burlington, IA, 52601, 319-754-7575

General Manager: George Kollar

Production Manager: Charles Goff

Sales & Svc. Coordinator: Jean Harwood

Traffic Manager: Shelly Moyers

Chief Engineer: Howard Whitcomb

Products: frequency and broadband FM antennas, single channel and broadband television antennas for professional antenna systems.

fiers, paging speakers, horns, drivers, ceiling speakers, tuners, and special order products.

See full listing under **Intercom Duplex**

Altec Lansing Corp., Box 26105, Oklahoma City Box,
OK, 73126-0105, 405-324-5311

P F.: Davis Merrey

V.P. Mkt'g.: Gary Rilling

SM: Gayle Campbell

Products: industrial and professional electronic and loudspeaker products including mixers, mixing consoles, power amplifiers, equalizers, compressor/limiters, high power speakers and compression drivers, constant directivity horns, crossovers, and microphones.

See full listing under **Loudspeakers**

ASHLY

Ashly Audio, Inc., 100 Fernwood Ave., Rochester, NY,
14621, 716-544-5191

President: William Thompson

V.P. Sales/Mkt'g.: Robert French

V.P. Finance/Export Accts.: David Malloy

Products: MOS-FET power amplifiers, graphic equalizers, noise gates, limiter/compressors, electronic crossovers, parametric equalizers, notch filters, and OEM products.

See full listing under **Pro Audio Sound Systems & Products**

AUDIO AMPLIFIERS

AB International Electronics Inc., 1830-6 Vernon St.,
Roseville, CA, 95678, 916-783-7800

President: Robert Bird

V. P. Mkt'g: Irwin Laskey

V. P. Engineering: George Anderson

Chief Engineer: Jeff Kuells

Products: precision power amplifiers for the commercial audio and musical sound industries, models range in power from 50 watts per channel to 500 watts per channel stereo.

District Offices:

Hanoud & Assoc., Rehobath, MA, 617-252-3735

ProAudio Marketing, Melville, NY, 516-367-8620

MBT, Pittsburgh, PA, 412-344-1360

Yore Company, White Bear Lake, MN, 612-770-9760

Professional Sound & Lighting, Lakewood, CO, 303-986-5999

Murphy & Cota, Atlanta, GA, 404-875-2526

Metro Joe's Marketing, Metairie, LA, 504-887-1885

Ludwig Marketing, Kenosha, WI, 414-697-9355

Nead & Assoc., Shawnee Mission, KS, 913-268-8763

ATI - Audio Technologies, Inc., 328 Maple Ave., Horsham,
PA, 19044, 215-443-0330

President: Sam Wenzel

Vice President: Edward M. Mullin

Products: precision audio equipment for the broadcast including 8 & 12 mixer consoles, mike, line, turntable, distribution and power amplifiers, and the Match-Maker and Disc Patcher IHF to PRO interface amplifiers.

Audisar, Box 1561, Bellevue, WA, 98009, 206-454-2040
Owner: R. Munger

Products: industrial audio and broadcast equipment, audio transformers, loudspeakers, power amplifiers, mixers, sound projector interface device, test equipment, specials, and engineered sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Aiphone Intercom Systems, 1700 130th Ave. N.E.,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking, telephone-type, video intercom entry systems, paging talkback, microprocessor intercom systems, mixer ampli-

BGW Systems, Inc., 13130 S. Yukon Ave., Hawthorne,
CA, 90251-5042, 213-973-8090

President: Brian Wachter

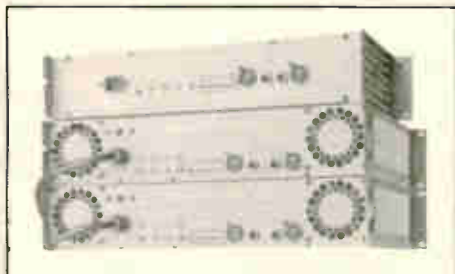
V. P.: Barbara Wachter

Controller: Jim Ebert

Products: 7 complete lines of audio power amplifiers including: Professional, Commercial, Broadcast, Proline II,



introducing the DX300, DX800 and DX1500 power amplifiers



The DX300, DX800 and DX1500 amplifiers all feature balanced XLR inputs, balanced and unbalanced 1/4" inputs, banana outputs, ground lift switch and a terminal block with access to all inputs and outputs.

DX300 output power: 200 watts into 8 Ω (per channel, both channels driven, 20Hz - 20kHz, -0.5dB) 400 watts into 8 Ω , 450 watts into 4 Ω (burst power*) **distortion** (250mW to rated power at 8 Ω): IMD SMPTE: < 0.01%. THD (1kHz): < 0.01%. THD (20kHz DIN): < 0.02% **size:** 2 rack spaces, 8 1/2" behind front panel **weight:** 7Kgs, 16 lbs. **cooling:** 2 passive heatsinks.

DX800 output power: 250 watts into 8 Ω , 400 watts into 4 Ω (per channel, both channels driven, 20Hz - 20kHz, -0.5dB), 800 watts into 8 Ω (bridged mono), 800 watts into 4 Ω , 900 watts into 2 Ω (burst power*) **distortion** (250mW to rated power at 8 Ω): IMD SMPTE: < 0.01%. THD (1kHz): < 0.01%. THD (20Hz-20kHz DIN): < 0.02% **size:** 2 rack spaces, 13" behind front panel **weight:** 13Kgs, 29 lbs. **cooling:** 1 servo controlled DC fan.

DX1500 output power: 300 watts into 8 Ω , 500 watts into 4 Ω , 750 watts into 2 Ω (per channel, both channels driven, 20Hz - 20kHz, -0.5dB), 1000 watts into 8 Ω , 1500 watts into 4 Ω (bridged mono) 1500 watts into 2 Ω , 1600 watts into 1 Ω (burst power*) **distortion** (250mW to rated power at 8 Ω): IMD SMPTE: < 0.01%. THD (1kHz): < 0.01%. THD (20Hz-20kHz DIN): < 0.02% **size:** 2 rack spaces, 13" behind front panel **weight:** 15Kgs, 34 lbs. **cooling:** 2 servo controlled DC fans.

*Burst power is a 1kHz tone for 10ms every 100ms, single channel (an indication of the amplifiers ability to handle music transients and tolerate deviations in nominal speaker impedance)

Total Audio Transparency

Manufactured in the UK:

Hill Audio Ltd., Hollingbourne House, Hollingbourne, Kent ME17 1QJ England
Tel: (062 780) 555/6/7 Tlx: 966641 HILL

U.S. Sales Office:

Hill Audio Inc., 5002B N. Royal Atlanta Dr., Tucker, GA 30084 USA
Tel: (404) 934-1851 Tlx: 293827 HLAD



Circle 222 on Reader Response Card

Signal Processing Amplifiers, Professional Mobile Audio and the New Grand Touring Amplifiers.

District Offices:

Peter Schmitt Co., Leonia, NJ, 201-944-2806

Lienau Assoc., Columbia, MD, 301-621-4113

Evans Sales & Mkt'g, Nashville, TN, 615-297-7997

Dick Bellew Sales, Dallas, TX, 214-644-7881

Berman-Gravley Co., Inc., Costa Mesa, CA, 714-549-2122

Biamp Systems, 14270 NW Science Park, Portland, OR, 97229, 503-641-7287

President: Ralph Lockhart

V.P. Engineering: Bob Doty

V.P. Finance: Jerry Payette

V.P. Manufacturing: Ralph Tennant

Sales Manager: Ron Camden

Products: American-made, high-quality, audio equipment for the sound contractor that includes; mixers, live and recording, rack-mount or console; powered mixers; microphone mixers; amplifiers; equalizers; and crossovers.

See full listing under **Pro Audio Sound Systems & Products**

Bogen Communications, Inc., PO Box 575, 50 Spring St., Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.

District Offices:

Bi-State Marketers, Ridgefield, NJ, 201-943-5888

Dimension/Point IX Mkt'g., Dallas, TX, 214-348-9657

J.C. Electronics, Honolulu, HI, 808-943-8514

Kingston Sales, Indianapolis, IN, 317-876-2545

R.W. Kunz & Assoc., Prairie Village, KS, 913-648-8427

Lichtenauer & Assoc., Antioch, CA, 415-757-1200

William M. Linz Assoc., Deerfield, IL, 312-945-9600

Lowery Assoc., Broomall, PA, 215-356-5300

Pacnor Marketing, Lynwood, WA, 206-771-6016

Paston-Hunter, Syracuse, NY, 315-437-2992

W.B. Pray Sales, Northboro, MA, 617-393-3434

Riley & Petchell Sales, Detroit, MI, 313-937-3000

Rohr-Wanger-Roberts, Rock Hill, SC, 803-324-5111

Shamrock Electronics Sales, Dayton, OH, 513-258-1227

Silver Peak Marketing, Wheat Ridge, CO, 303-467-9042

SRT Marketing, Tampa, FL, 813-884-4805

Westech Marketing, Culver City, Ont, CD, 416-632-6894

Yore Co., White Bear Lake, MN, 612-770-9760

White Radio, Burlington, Ont., CD, 416-632-6894

Roburn Agencies, NY, NY, 212-989-5939 (Export Representative)

Boulder Amplifiers, 3101 Third St., Boulder, CO, 80302, 303-449-8220

Broadcast Audio Corp, 11306 Sunco Dr., Rancho Cordova, CA, 95670, 916-635-1048

President: John Fernandez

CEO: David Evans

Products: audio consoles and amplifiers for sound reinforcement and broadcasting.

See full listing under **Mixers & Mixing Consoles**

BrystonVermont Ltd., RFD #4, Box 2255, Montpelier, VT, 05602, 802-223-6159, 800-451-4160

President: John Day Russell

Products: audio amplifiers and preamplifiers for professional and broadcast use.

C-Audio, Kuniholm Dr., Box 521, Holliston, MA, 01746, 617-429-6706

Exec. V.P. & Gen. Manager: Peter Willie Koff

Nat'l. Sales Manager: David Deranian

Mkt'g./Sales Support Admn: Barry Fox

Credit Manager: Kathy Maguire

Products: super high powered, high quality MOS-FET power amplifiers from Great Britain available in the following models: SR202, SR404, SR606, SR808. The SR808 is capable of producing 850 watts per channel @ 4Ω, the 2400B and 2600B are also available at lower cost, the 2600B is capable of producing 600 watts @ 4Ω.

Carver Corp., 20121 48th Ave. W., Wynnewood, WA, 98036, 206-775-1202

Nat'l. Sales Manager/Pro: Will Lewis

Products: professional power amplifiers that are powerful and lightweight, internal stereo crossover modules, crossover modules for Carver power amplifiers.

Celestion Industries, Inc., Kuniholm Dr., Box 521, Holliston, MA, 01746, 617-429-6706

Exec. V.P. & Gen. Mgr.: Peter Wellikoff

Nat'l. Sales Manager: David Deranian

Mkt'g./Sales Support Admn: Barry Fox

Credit Manager: Kathy Maguire

Products: sound reinforcement loudspeakers with high-fidelity sound called the SR Series; established line of raw-frame drivers for a variety of applications.

See full listing under **Loudspeakers**

Cetec Ivie, 1366 West Center St, Orem, UT, 84057, 801-224-1800

President: Craig Berry

Mkt'g Manager: Glen Meyer

Production Manager: Larry Driskill

Products: a complete line of modular sound reinforcement electronics including mixers, equalizers, amplifiers, etc.

We also have a line of octave & 1/3 octave hand-held real time analyzers and stand alone automatic microphone mixers.

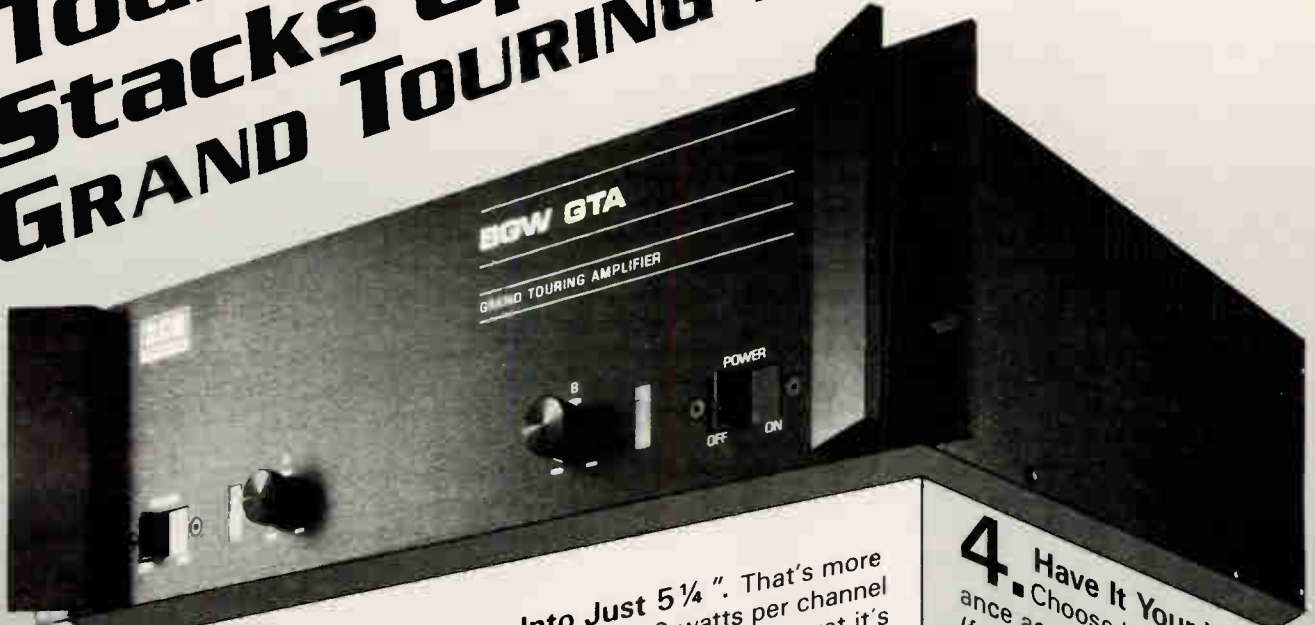
See full listing under **Audio Signal Processors**

Cetec Raymer, 7315 Fulton Ave., N. Hollywood, CA, 91605, 213-875-0423

President: Hugh T. Wilcox

Products: audio equipment for paging, background music and sound systems, including amplifiers, tuners, receivers, test equipment, telephone interconnect devices and accessories. Direct connection telephone trunk and station access paging devices.

Why No Other Touring Amp Stacks Up To BGW's GRAND TOURING AMPLIFIER...



1. GTA Packs 1800 Watts Into Just 5 1/4". That's more than 2 horsepower! The GTA delivers 900 watts per channel into 2 ohm loads; 1800 watts bridged into 4 ohms—yet it's just 3 rack spaces high. For unbelievable punch, the GTA's massive power supplies store an enormous 320 joules of energy. It's the most powerful amplifier ever from BGW.

2. It's Heavy-Duty All The Way. Make no mistake, this is no "flyweight wonder". Our engineers don't believe in taking shortcuts. From its one-piece welded steel chassis to totally redundant dual-mono design (with field-swappable modules), the Grand Touring Amplifier is built to take everything the road can dish out. It's the first powerful compact amp with legendary BGW reliability.

3. Details, Details, Details. For all its raw power, the GTA is a highly refined amplifier. It features low feedback circuitry for superb sonic performance. D.C. speaker protection is included, of course. The GTA internally accommodates two BGW crossover cards. And BGW builds-in the subsonic filters that you need, but other manufacturers "forget".

4. Have It Your Way. Choose high performance active balanced inputs (featuring 70dB+ common mode rejection), or specify transformer isolated inputs (to eliminate stubborn ground loops).

5. What Price Glory? Less than you'd expect. Under a dollar per watt buys you the massive power, small size, full roster of features, magnificent performance, and rock-solid reliability of the GTA.

6. It All Adds Up. Our new Grand Touring Amplifier clearly stacks up as THE road amp of choice. Your next move? Call BGW at 1 (800) 252-4800 Toll-Free (In CA-(213) 973-8090), to arrange for a demo trial.

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13130 South Yukon Avenue
Hawthorne, CA 90250



Circle 228 on Reader Response Card
World Radio History

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601 Milner Ave. Scarborough Ontario
M10 1M8 (416) 292-5161

See full listing under **Paging Systems**

Connectronics Corporation, 652 Glenbrook Road,
Stamford, CT, 06906, 203-324-2889, 800-322-2537
Exec. V.P. Richard Chilvers

Products: specialized high-flexibility colored audio wire and cable-everything from microphone cable through 32-pair foil-shielded multipair, from phono cable to individually shielded and jacketed and color-coded multipairs, from "starquad" to heavy-duty four conductor speakerflex. Portable audio mixing console from "SECK."

See full listing under **Wire/Cable Components**

Crest Audio, 150 Florence Ave., Hawthorne, NJ, 07506,
201-423-1300

President: John Lee

Division Manager: Craig Hannabury

Products: a full range of professional power amplifiers ranging from 50W per CH@ 8 Ohms to over 1200W per CH@ 4 Ohms. Models are suited for touring concert sound, studio monitoring and installation use.

Crown International Inc., 1718 W. Mishawaka Road,
Elkhart, IN, 46517, 219-294-8000

President: Max Scholfield

Mkt'g Manager: Charles W. Gushwa

PR Coordinator: Margo Sousley

Microphone Prod. Mgr.: Bill Raventos

Amplifier Prod. Mgr.: Verne Searer

Products: premium quality professional power amplifiers from 35 to 400 watts per channel, PZM® microphones & hand held microphones for performance, musical instruments & sound reinforcement.

David Hafler Company, 5910 Crescent Blvd., Pennsauken,
NJ, 08109, 609-662-6355

President: E. Gately

Sales Manager: L. Schneider

Dir. Mkt'g. Services: R. Tucker

Products: professional power amplifiers.

District Offices:

Ortofon, Plainview, NY, 516-349-9180

Wilson Audio Sales, Nashville, TN, 615-646-4477

Lichtenauer & Assoc., Antioch, CA, 415-757-1200

New West Audio, Burbank, CA, 818-955-9700

Richard Lewis Sales, Glenside, PA, 215-886-1555

DAX Audio Group, Inc., 1231 S.E. Gideon St., Portland,
OR, 97202, 503-232-4445

President: Rich Stevenson

Engineering Manager: Bob Herb

Products: graphic equalizers, 31-bands, dual 15-band, and dual 31-bands; mixing consoles from 8x2 to 32x8; powered mixers in 6 and 8 channels; real-time analyzer; amplifier; crossover.

See full listing under **Mixers & Mixing Consoles**

DCS Audio Products Inc, 335 E 21st St, New York, NY,
10010, 212-9823654

Dean Markley Electronics Inc., 3350 Scott Blvd., Suite 45,
Santa Clara, CA, 95054, 408-988-2456, 800-538-8330
President: Dean Markley

Executive V. P.: Bari Wilson

Nat'l Sales Manager: Tom Dreibelbis

Products: professional audio sound systems and support, powered and non-powered mixers, powered and unpowered enclosures, power amps, microphones, cables and accessories.

See full listing under **Pro Audio Sound Systems & Products**

Delta Magnetics, 16782 Hale Ave., Irvine, CA, 92714, 714-863-1537

Products: amplifiers, mixers, and headphones.

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL,
60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

See full listing under **Portable Sound Systems**

Dyma Engineering, PO Box 1535, Los Lunas, NM, 87031,
505-865-6700

Products: audio terminal equipment, amps and mikes, installation and design for radio and TV.

EMS/Music, 2264 15th Ave. W., Seattle, WA, 98119, 206-281-8686

V.P. Nat'l. Music Svc. Sales: Bernard Kron

Nat'l. Dealer Sales Desk: Mark Rubin

Steve Ducharme

Anne Walker

Products: Current-Drive Amplifiers for transformerless distributed speaker systems. Automated mixer system that permits segues with various music services. Tape cartridge players, foreground music libraries, and message inserters.

See full listing under **Back/Foreground Systems Libraries**

Fanon Courier, 14281 Chambers Road, Tustin, CA,
92680, 714-669-9890, 800-345-1354

President: Frank Blaha

Director Sales/Mkt'g: Murray Trotiner

Director of Engineering: Miguel Santana

Products: PA amplifiers and systems, paging/talkback speakers, intercom systems, megaphones, FM scanning monitors, and CB transceivers.

See full listing under **Pro Audio Sound Systems & Products**

FM Acoustics Limited (USA), PO Box 854, Benicia, CA,
94510, 707-745-4444

Pres.(FM Acoustics LTD): Manuel Huber

New Carver Amps for permanent installation, studio, and concert use. PM-175 and PM-350.

NOW THAT THE CARVER PM-1.5 IS PROFESSIONALLY SUCCESSFUL, IT'S STARTED A FAMILY. INTRODUCING THE NEW CARVER PM-175 AND PM-350.

Month after month on demanding tours like Bruce Springsteen's and Michael Jackson's, night after night in sweltering bars and clubs, the Carver PM-1.5 has proven itself. Now there are two more Carver Professional Amplifiers which deliver equally high performance and sound quality — plus some remarkable new features that can make your life even easier.

SERIOUS OUTPUT. The new PM-175 delivers 250 watts RMS per channel into 4 ohms. As much as 500 watts RMS into 8 ohms bridged mode. The larger PM-350 is rated at 450 watts per channel into 4 ohms. Up to a whopping 900 watts in 8 ohm bridged mode. Both with less than 0.5% THD full bandwidth at any level right up to clipping. Plus 2 ohm capability as well.

SERIOUS PROTECTION. Like the PM-1.5, both new amplifiers have no less than five special protection circuits including sophisticated fault interruption against dead shorts, non-musical high frequency, and DC offset protection, as well as low level internal power supply fault and thermal overload safeguards. The result is an amplifier which is kind to your expensive drivers — as well as to itself.

OUTBOARD GOES INBOARD. Each PM-175 and PM-350 has an internal circuit card bay which accepts Carver's new plug-in signal process-

ing modules. Soon to be available is an electronic, program-mable 2-way stereo crossover, with 24 dB per octave Linkwitz-Reilly phase -aligned circuitry, a built-in adjustable high-end limiter and balanced outputs. And more modules will be available in the near future to further help you streamline your system.

PRO FROM CONCEPTION. The PM-175 and PM-350 inherited their father's best features. Including slow startup and input muting to eliminate turn-on current surge, 11-detent level controls, phone jacks, power, signal, clipping and protection indicators as well as balanced XLR input connectors. In a bridged mode, both amplifiers will drive 70-volt lines without the need for external transformers.

MEET THE FAMILY AT YOUR CARVER DEALER. All remarkable Carver Professional Amplifiers await your own unique applications. Hear their accuracy and appreciate their performance soon.

SPECIFICATIONS: CARVER PM-175 Power: 8 ohms, 175 w/channel 20-20kHz both channels driven with no more than 0.5% THD. 4 ohms, 250 w/channel 20-20kHz both channels driven with no more than 0.5% THD. 2 ohms 300 w/channel 20-20kHz both channels driven with no more than 0.5% THD. Bridging: 500 watts into 8 ohms; 400 watts into 16 ohms. THD-less than 0.5% at any power level from 20 mW to clipping. IM Distortion less than 0.1% SMPTE. Frequency Bandwidth: 5Hz-80kHz. Gain: 29 dB. Input Sensitivity: 1.5 V rms. Damping: 200 at 1kHz. Slew rate: 25V/ micro second. Noise: Better than 115 dB below 175 watts. A-weighted. Inputs: Balanced to ground. XLR or TRS phone jacks. Input Impedance: 15k ohm each leg. Compatible with 25V and 70V systems. 19"Wx 3.5"H x 11.56"D

SPECIFICATIONS: CARVER PM-350 Power: 8 ohms, 350 w/channel 20-20kHz both channels driven with no more than 0.5% THD. 4 ohms, 450 w/channel 20-20kHz both channels driven with no more than 0.5% THD. 2 ohms 450 w/channel 20-20kHz both channels driven with no more than 0.5% THD. Bridging: 900 watts into 8 ohms; 750 watts into 16 ohms. THD-less than 0.5% at any power level from 20 mW to clipping. IM Distortion less than 0.1% SMPTE. Frequency Bandwidth: 5Hz-80kHz. Gain: 31 dB. Input Sensitivity: 1.5 V rms. Damping: 200 at 1kHz. Slew rate: 25V/ micro second. Noise: Better than 115 dB below 350 watts. A-weighted. Inputs: Balanced to ground. XLR or TRS phone jacks. Input Impedance: 15k ohm each leg. Compatible with 25V and 70V systems. 19"Wx 3.5"H x 11.56"D



- Powerful • Reliable • Versatile • Stackable • Rugged • Easy to Install • Compact • Lightweight • Cool Operation • Bridgeable • Quiet • Affordable • Multi-Function Protection • Superb Sound

CARVER

PO Box 1237, Lynnwood, WA 98046

POWERFUL

MUSICAL

ACCURATE

Circle 230 on Reader Response Card

Distributed in Canada by: **evolution technology**

Dir.(FM Acoustics USA): Gene Michalski
 Products: line of swiss made amplification equipment for studio, theatre and quality sound enhancement applications. Electronic crossovers with 36db attenuation and linear phase. Precision balanced line drivers and line level interfaces. High energy transfer speaker cable.
 District Offices:
 FM Acoustics USA, Benicia, CA, 707-745-4444

Hacoustic USA, Inc., 209 August Rd. N., Babylon, NY, 11703, 516-242-6205
 President: Bert Aarts
 Sales Assistant: Ursula Aarts
 Products: mixers and mixing amplifiers with an output of 30, 60, 75, or 120W; mixers with 7 inputs/4 inputs and 9 inputs/6 mixable inputs; supplementary circuits such as an equalizer, compressor/limiter, voice activated control unit, priority/chime/alarm unit.
 District Offices:
 Pinz Sales, Rockville Centre, NY, 516-678-6887
 Raleigh Perry & Assoc. Inc., Buford, GA, 404-945-3142
 Design Factors, La Habra Heights, CA, 213-697-7576

Hill Audio, Inc., 5002#B N. Royal Atlanta Dr., Tucker, GA, 30084, 404-934-1851
 President: David Ash
 Sales Manager: Bob Allen
 Chief Engineer: Rick Rogers
 Financial Administrator: Viginia Ash
 Products: power amplifiers from 200 to 3,000 watts and mixing consoles featuring 16-channel rack-mount through 48-channel modular. The modular consoles have the new

"Sidetraker" EQ as standard equipment.
 See full listing under **Pro Audio Sound Systems & Products**

HM Electronics, Inc., PO Box 261669, San Diego, CA, 92131, 619-578-8300
 President: Harry Y. Miyahira
 Vice President: Donald Kutz
 Director of Mkt'g: J. Michael Hughes
 National Sales Manager: Randy Opela
 Mkt'g Coordinator: Tonnia B. Sills
 Products: a complete line of wireless and cabled microphones, wireless and cabled intercom systems, DJ mixers, cordless guitar systems, power amplifiers, and accessories.
 See full listing under **Microphones**

Holophonics, 1120 Ave. of the Americas, Ste.4270, New York, NY, 10036, 212-787-7767

Ibanez, P.O. Box 2009, Idaho Falls, ID, 83403, 208-522-8691

Industrial Research Products, 321 Bond St., Elk Grove Village, IL, 60007, 312-439-3600
 General Manager: Mahlon Burkhard
 Marketing Manager: Roger Carroll
 Products: transversal equalizers, automatic microphone mixers, digital delay lines, power amplifiers, level-matic limiter.
 See full listing under **Pro Audio Sound Systems & Products**

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The New PST Line Features

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FEATURES

- 10, 30, 60 and 100 Watts or RMS power
- Wide frequency response
- Low distortion
- Complimentary symmetry output
- Direct coupled circuitry
- Low Noise IC's
- Low impedance microphone inputs without transformers
- Telephone page input
- Loudness control for music
- Music muting for microphone precedence.

PST-10 DESCRIPTION

The PST-10 is a 10 watt integrated amplifier with one microphone and one music channel. Tone control is combination bass and treble. Output is 8 ohm, 25 volt and 70 volt line.

PST-30

The PST-30 is a 30 watt integrated amplifier with 2 microphone channels, one music channel, and full range bass and treble controls. Output is 4 to 8 ohms, 25 volt and 70 volt.

PST-60 AND PST-100

The PST-60 and PST-100 are 60 and 100 watt integrated amplifiers with 2 microphone channels, one auxiliary and one music channel. They have full range bass and treble controls, low frequency filter switch, mix bus and out-in connections for external EQ. Output is 4 to 8 ohms, 25 volt and 70 volt.

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In Canada: Paco Electronics Ltd. • 20 Steelcase Rd. W., Unit 10, Markham, Ontario L3R 1B2 • Phone: 416-475-0740 Telex: 06-966655

Innovative Electronic Designs, Inc., 9701 Taylorsville Rd.,
Louisville, KY, 40299, 502-267-7436
President: Hardison G. Martin
V.P. Engineering: Robert Ponto
Treasurer: Ray Allen
Dir. Mkt'g. & Sales: Tom Roseberry
Products: models 500 & 500AC microcomputer controlled
audio systems, controlling mixing, routing, and level ad-
justment. 4000 automatic mixer, 5000 audio processing
system. 70-volt and low impedance 8ohm version 6270
power amplifier.
See full listing under **Pro Audio Sound Systems &
Products**

J. W. Davis & Co., 3030 Canton Street, Dallas, TX,
75226, 214-651-7341, in TX, 800-442-1564, Nationally
800-527-5705
President: Charles Griffiths
Vice President/Sales: Jack W. Tucker
Products: Patronis Pataxial Speaker Systems PA-150 and
PA-70, Bessel Array Columns.
District Offices:
Benesik Assoc., Ocala, FL, 904-732-9775
David H. Brothers, Baltimore, MD, 301-764-7189

Murphy & Cota, Atlanta, GA, 404-875-2525
J. Y. Schoonmaker, Dallas, TX, 214-349-1650

JBL Professional, 8500 Balboa Blvd., Northridge, CA,
91329, 818-893-8411
President: Ron Means

V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Market Manager/Sound Contracting: Steve Romeo
Products: high quality loudspeakers and loudspeaker sys-
tems of all kinds; automatic microphone mixer; electronic
crossover; special loudspeakers for musical instruments;
video projector.
See full listing under **Loudspeakers**

Jensen Transformers, Inc., 10735 Burbank Blvd., N.
Hollywood, CA, 91601, 213-876-0059
President: Deane Jensen
Products: audio transformers, microphone preamplifiers-
Jensen Twin Servo 990, power amplifiers-Boulder 500,
160, Opamps-990-C, software-circuit simulation for HP
desktops.

JL Cooper Electronics, 1931 Pontius Avenue, Los
Angeles, CA, 90025, 213-473-8771

Johnson Electronics, Inc., 4301 Metric Drive, PO Box
4728, Winter Park, FL, 32793, 305-677-4030
Chairman of the Board: Ralph Weber
President: Al Schell
V. P./Engineering: Ken St. John
Dir. Mkt'g/Sales: Mel Kelch
Products: SCA tuners/receivers for music, voice, data and
emergency broadcast systems. Also audio amplifiers, mix-
ers, Rx antenna systems and computerized display equip-
ment.

NEW McGOHAN WALL MOUNTED AMPS



Model	Watts
MSWM-103	10
MSWM-103L	10
MSWM-203	20
MSWM-203L	20
MSWM-403	40
MSWM-403L	40

All amplifiers feature three mixer inputs with separate bass & treble controls and have outputs of 8 ohm, 25 volts or 70 volts. Other features include circuit breaker protection, music muting, a switched convenience outlet, and screwdriver adjustable controls with covers provided to prevent tampering once desired settings are made.

The MSWM series have provisions on the page input for either balanced microphone or telephone paging.

The MSWM-L series is identical in features to the MSWM series with the exception that the page input is designed for telephone paging only.

 **McGohan** Electronics, Inc.
1033 Fairway Drive Bensenville, IL 60106
Phone: 1-312-595-2342



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For more information on Series Two write, QSC Audio Products, Inc.,
1926 Placentia Avenue, Costa Mesa, CA 92627 or call Greg McVeigh at QSC toll free (800) 854-4079.

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Len Finkler Company, 80 Alexdon Road, Downsview, Ontario, M3J2B4, 416-630-9103
 Products: amplifiers, speakers for ceiling, & wall bafflers.
 See full listing under **Pro Audio Sound Systems & Products**

McGohan Electronics, Inc., 1033 Fairway Dr., Bensenville, IL, 60106, 312-595-2342
 President: Jim McGohan
 Sec./Treas.: Rosalie (McGohan) Monk
 Chief Engineer: Bill Everhart
 Production & Services: Ronald Johnston
 Products: amplifiers from 1 to 100 watts. There are over 30 models available within this power range including basic power amps and mixer amps. Zone paging preamplifiers, tone generators, 70 volt line transformers, and rack and shelf mounting kits are also available.
 District Offices:
 Austin Assoc., Willingboro, NJ, 609-871-9290
 Irv Brown Company, Brooklyn, NY, 718-493-1379
 Ted Firaneck Sales Company, Pontiac, MI, 313-373-9595
 Don Forth Assoc., West Covina, CA, 818-919-2322
 Givan Associates, West Boylston, MA, 617-835-3161
 J. W. Lehner, Stow, OH, 216-686-1965
 Maish Sales Company, Mulberry, IN, 317-296-2322
 Meyer Marketing, Deerfield Beach, FL, 305-481-9250
 Miller Assoc., Richardson, TX, 214-437-5733
 Chuck Olson Assoc., Renton, WA, 206-226-2112
 Henry Phillips Co., Roswell, GA, 404-992-3070
 Rancilio Assoc., St. Louis, MO, 314-631-3326
 Stan Sliz Assoc., Broomfield, CO, 303-466-1608
 Sunrise Sales Company, Romeoville, IL, 815-886-6034

Brian Trankle & Assoc., Belmont, CA, 415-595-4004
 R. W. Sales, St. Paul, MN, 612-646-2710

McMartin International, Inc., 111 Camino Dil Rio, Gunnison, CO, 81230, 303-641-5500
 President: Ray R. McMartin
 Financial Adm.: Robert W. McMartin
 Dir. of Engineering: Robert German
 Dir. of Manufacturing: Wayne Allen
 Dir. of Supplies/Prod.: Louise Rundock
 Products: FM/SCA generators and receivers; commercial sound amplification mixers and test sets; engineered sound amplifiers, mixers, preamps, line amplifiers, compressor/limiters, equalizers, automatic level controllers, and supervisory control systems; broadcast receivers and EBS systems; and satellite modulators and demodulators.
 District Offices:
 Forti Assoc., Inc., Wash., D.C., 301-949-1706
 Murphy & Cota, Inc., Atlanta, GA., 404-875-2525
 Stiffler Marketing, Chicago, IL, 312-480-3575
 S & F Northwest, Inc., Seattle, WA, 206-525-5203
 Bob White Assoc., Cleveland, OH, 216-248-1317

Millbank Electronics Group Ltd., Bellbrook Industrial Estate, Uckfield, East Sussex, England, TN22 1QL, -0825-4811
 Chairman/Chief Exec.: A. E. Walker
 Sales/Mkt'g Director: D. H. Eaton
 App. Engineer Dir.: D. G. G. Edworthy
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 Products: high quality modular amplifiers, digital announc-

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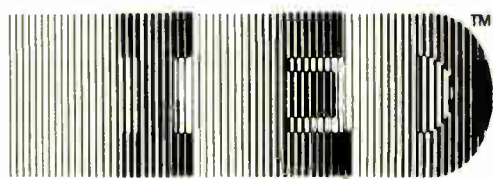


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District Offices:

Len Finkler & Co., Downsview, ONT, CD, 010-1416-6309103

Modular Audio Products, P.O. Box 488, Barrington, IL, 60010, 312-382-4550

Numark Electronics, 503 Newfield Ave., Edison, NJ, 08837, 201-225-3222

President: Harry Kotovsky

Vice President: Robert Kotovsky

National Sales Mgr.: Richard Krochmal

Technical/Serv. Manager: Rick Kamlet

National Sales Manager: Dewitt Smith

Products: professional music mixers, turntables, equalizers, mobile DJ systems, speaker systems, professional audio/video digital mixers, and a complete line of audio accessories.

See full listing under **Disco Components & Systems**

Panasonic Industrial Company/Ramsa, 6550 Katella Ave, Cypress, CA, 90630, 714-895-7272

National Marketing Mgr.: Steve Wooley

Products: Ramsa, the professional audio division of Panasonic Industrial Company's Audio/Video Systems Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Parasound Products, Inc., 945 Front St., San Francisco, CA, 94111, 415-397-7100

President: Richard Schram

Sales & Marketing: Bonnie Perella

Technical Services: Rich Rogers

Products: high-end quality electronics specializing in home and semi-professional audio for the price conscious consumer.

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

District Offices:

All West Electronics, Camarillo, CA, 805-388-1789

Anderson SALES, Braintree, MA, 617-848-9194

Jim Church Marketing, Bloomington, IN, 812-334-0383

De Witt Austin Co., Alpharetta, GA, 404-442-1326

Thomas L. Dowell & Assoc., St. Louis, MO, 314-849-4234

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CAN AMERICA COMPETE?



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SPECIFICATIONS	RAYMER 9012	TOA A-912A	SPECIFICATIONS	RAYMER 9012	TOA A-912A
OUTPUT POWER 120 watts RMS.	Yes	Yes	CONTROLS 6 Input gain controls; 1 Bass tone control; 1 Power ON/OFF switch; 1 Tone defeat switch; 1 Master gain control; 1 Treble tone control; 1 Link switch; 1 Low-cut (60Hz/6dB octave).	Yes	Yes
POWER BAND WIDTH Direct: 20 - 20,000Hz ± 1dB, 0.5% THD. Transformer: 50 - 20,000Hz ± 1dB, 0.5% THD.	Yes	Yes	<i>Built-in locking of front panel controls.</i> 1 Adjustable EQ bypass control (rear panel). 1 Remote master volume (rear panel).	Yes	No
FREQUENCY RESPONSE Direct: 20 - 20,000Hz ± 1dB. Transformer: 20 - 15,000Hz ± 1dB. Transformer: 20 - 20,000Hz +1dB, -3dB.	Yes	Yes	INTERNAL BUSS STRUCTURE <i>Independent signal processing buss.</i> Standard screw terminal mute connection (rear panel). 2 Separate mute busses (rear panel). Full module compatibility.	Yes	No
INPUTS 6 Input Ports. 1 bridging Input/Output.	Yes	Yes	DIMENSIONS 145mm high x 420mm wide x 315mm deep; 5.71" x 16.54" x 12.4". Rack-mounting space: 5.21".	Yes	Yes
OUTPUTS Transformer: 8 ohms, 25 & 70 volts, balanced. Direct: 4 ohms, unbalanced. Aux: 10k ohms, (1 volt).	Yes	Yes	COLOR	Black	Silver
SIGNAL TO NOISE RATIO (BAND PASS 20 - 20,000Hz, TONE CONTROLS CENTERED) Master volume min: 90dB. Master volume max: 77dB. Power amplifier only: 105dB.	Yes	Yes	OTHER FEATURES 5-sec. delay of output connection after power switched on. Automatic resetting thermal overload on power transformer.	Yes	Yes
TONE CONTROLS Bass: ± 10dB at 100Hz. Treble: ± 10dB at 10kHz.	Yes	Yes		Yes	No

TOA specifications per 833-61-702-80

Raymer's 9012 vs. TOA's A-912A

Take a look at the six-channel 120 watt Raymer Model 9012 Modular Mixer Power Amplifier. It's TOA compatible. Interchangeable with TOA's A-912A in both installation and application. And it accepts *all* TOA 900 Series plug-in modules.

Compare them feature for feature, spec by spec: the made-in-the-USA Raymer 9012 not only competes — it *surpasses* the TOA import with *seven* unique engineering features for added performance and useability. Then check our pricing and compare the value — the Raymer 9012 is the clear competitive choice! For more information write or call today.

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Commercial sound products division of Cetec Corporation

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Cetec Raymer products are distributed in Canada by Engineered Sound Systems, Ltd., Mississauga, Ontario

J.Y.S. Comm. Co., Dallas, TX, 214-349-1650
Lienau Assoc., Inc., Columbia, MD, 301-621-4113
Lienau Assoc., Inc., New Town, PA, 215-860-2100
Lintern Assoc., Naperville, IL, 312-983-0935
Miguel Lopez, Hialeah, FL, 305-822-6853
Marketline, Inc. AV only, Atlanta, GA, 404-972-9048
Jack Mesnick Sales, Liverpool, NY, 315-622-3211
Miller Assoc., Ltd., Greenwich, CT, 203-840-2866
Robert Milsk Co., Inc., Southfield, MI, 313-354-3310
Mountain Representatives, Denver, CO, 303-623-0972
Northland Assoc., Moorehead, MN, 218-223-4616
Pace Sales, Inc., Charlotte, NC, 704-365-3216
SLK Tech Rep, Hayward, CA, 415-785-4531
Weller Electronic SAles, Inc., Columbus, OH, 614-885-7819
Mel Yarish & Assoc., Hollywood, FL, 305-625-1300
Paco Electronics, Ltd., Markham, Ont, CD, 416-475-0740

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365
Prod Mgr/Sound Reinf.: Hollis Calvert
Prod Mgr/Digital Product: Ken Valentine
Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.

See full listing under **Pro Audio Sound Systems & Products**

Perreux/GMI Distributors, 5000 Birch St, Ste.3000,W Tower, Newport Beach, CA, 92660, 714-476-3606

Power Solutions, Inc., 10681 Haddington, # 190, Houston, TX, 77043, 713-932-9847, 800-345-9130
President: Peter Cole
Marketing Mgr.: Glenn Messerschmitt
Products: high power digital amplifiers for the sound reinforcement industry.
District Offices:
Bob White Assoc., Solon, OH, 216-248-1317
Hustling Enterprises, Redington Beach, FL, 813-393-8982
Professional Audio Marketing, Melville, NY, 516-367-8620
Pro-Tech Marketing, Newport Beach, CA, 714-650-5633
Prof. Sound and Lighting Products, Lakewood, CO, 303-986-5999
Repworks, Inc., Chicopee, MA, 413-533-0845
Signal Marketing, Valley Forge, PA, 215-783-6666
Steffey Marketing, Northbrook, IL, 312-480-3575
Upstate Marketing, Burnt Hills, NY, 518-399-6311

Powertronix, 10623 Lawson River Ave., Fountain Valley, CA, 92708, 714-963-5411
President: Robert Gehlke
Sales Mgr.: Bill Organ
Products: self-contained 200 watt voice evacuation system; 400 watt current drive distribution amplifiers with 24V-48VDC emergency back-up power capability; 24VDC mobile amplifier with three electronically-switched, prioritized inputs.
District Offices:
Lichtenauer & Assoc., Antioch, CA, 415-757-1200
Chuck Olson & Assoc., Renton, WA, 206-271-5416

Bi-State Marketers, Ridgefield, NJ, 201-943-5888
R.G. Assoc., Stow, MA, 617-897-7146
John S. Wilken & Assoc., Hillsboro, OH, 513-393-1137
Pro-Marketing Systems, Indianapolis, IN, 317-846-9591
Raleigh Perry & Assoc., Buford, GA, 404-945-3142
SAGA, Oswego, NY, 315-343-5739

Precision Electronics, Inc., 9101 King St., Franklin Park, IL, 60131, 312-678-5350
President: William S. Grommes
Chief Engineer: A.A. Hart
Sales Manager: William Stow
General Manager: G. Hussain
Products: PA amplifiers, mixer preamplifiers, power amplifiers, am/fm tuners, tuner amplifiers with paging, graphic equalizers, automatic volume limiter, telephone music-on-hold amplifier, and sound accessories.

District Offices:
Associated Systems, Manchester, NH, 603-473-2297
Sheldon A. Goodman Assoc., Oswego, NY, 315-343-5739
Hollingsworth & Still, Norcross, GA, 404-447-1700
George M. Conneen Co., Inc., Springfield, PA, 215-544-5884
Bidwell Sales Assoc., Gardena, CA, 213-770-0300

Protech Audio Corp., Flowerfield, Bldg. #1, St. James, NY, 11780, 516-584-5855
Sales Mgr.: Bill Murphy
Sales Engineering: Joe Giambone
Products: automatic level controls, voltage controlled amplifiers, distribution amplifiers, mixers, tone supervisor systems, microphone and line preamplifiers, compressor/limiters, switching cards, ramp controlled preamplifiers, engineered and modular sound systems.
See full listing under **Pro Audio Sound Systems & Products**

QSC Audio Products, Inc., 1926 Placentia Ave., Costa Mesa, CA, 92627, 714-645-2540
President: Barry Andrews
V.P. Engineering: Pat Quilter
Chief Operations Mgr.: John Andrews
Nat'l. Sales Mgr.: Greg McVeigh
Products: two complete series of professional two-channel power amplifiers with 8 Ω rating from 35-375 watts/channel, which accepts a full line of plug-in accessory modules. Also, a new series of 70V amplifiers for music and paging applications.
District Offices:
QSC Audio Products, Costa Mesa, CA, 714-645-2540

Ramko Research, Inc., 11355 "A" Folsom Blvd., Rancho Cordova, CA, 95670, 916-635-3600
Products: switchers and power amplifiers.

Round & Bidnick Assoc., 2631 Rocky Trail Rd., Diamond Bar, CA, 91765, 714-861-3928

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119
President: Bob Ringer
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Sales Manager: Shelley Harrison
Sales Engineer: Dave Richardson

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* Patent Applied For

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World Radio History

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Ron Estes, NBC
Burbank, California

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"We tested the very first of the new Crown Hand Held mics on the show, and quite frankly they were astounding.

"All the sonic excellence you expect from Crown is there, the new **CM™** Series will definitely put Crown at the forefront of the hand held market."

"If I can pick only one mike supplier it will be Crown – they just always work."

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Tom Durell,
Tom Durell Enterprises, Inc.
North Hollywood, California



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FILM SOUND

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In the motion picture industry Crown has been a fixture ever since the introduction of the legendary **DC-300**. From powering the speakers behind the screen to providing **GLMs**®, **PZMs**® and other mics, Crown has been involved in this field for years. As in many other businesses, there is a direct correlation between a company's success and its ability to listen to the pros for designing products that meet their needs.

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Ken Wilson,
Sound Engineer/
Film Production
Hollywood, California

LIVE SOUND

"Crown's commitment to putting new technology to practical use has given me products that make a real difference."

At Crown the philosophy is the product must be specifically designed to meet the rigorous demands of the end user.

Achieving this design philosophy is a matter of being innovative in putting new technologies to work. Always searching for new ways to gain efficiency of performance results in products such as **PZM**®, **PCC**® and **GLM**®. Unique and well developed to satisfy discriminating professionals like David Andrews.

David's success and reputation in the audio business is widely known, his live sound productions are a standard that others look to and his choice of mic is Crown.

"Live sound has to be intimate and real yet deal with the realities of gain before feedback, temporary set-ups, less than optimum placement, etc.

"If a microphone cannot perform correctly I don't need it — I can't use it. I have tested and utilized every mic in the Crown line and have always been extremely satisfied with the consistency and accuracy of reproduction."



David Andrews
Andrews Audic
Consultants
New York, New York

1718 W. MISHAWAKA ROAD, ELKHART, INDIANA 46517

World Radio History
Circle 233 on Reader Response Card

Chief Engineer: Stan Hubler
Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems.
Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.
See full listing under **Intercom Duplex**

SCS/Sound Code Systems, PO Box 2198, Garden Grove, CA, 92643, 714-554-0903
President: M.C. Halverson
V.P. Engineering: Kevin Halverson
Sales Manager: Tim Edwards
Products: four models of power amplifiers ranging from 150 to 600 watts/channel into 4Ω for concert sound, studio, and permanent installations. Features are: fan-cooled MOS-FET output devices, balanced/unbalanced inputs, discrete front end, 350 damping factor, and 70V/μsec. slew rate.

Sequential, 3051 N. First St., San Jose, CA, 95134, 408-946-5240

SMC International, Inc., 2505 N. 24th St., Ste. 501, Omaha, NE, 68110, 402-453-0332
Chief Opt'g. Ofc'r.: Jay B. McMartin
Dir. of Engineering: Richard L. Dircks
Products: FM/SCA products, commercial sound products, satellite receiving products and telephone test equipment.

Sontec Electronics Inc., Audio Dr., Goldbond, VA, 24094, 703-626-7256
Sales Manager: Burgess Macneal
Products: amplifiers and signal processors for use where extremely low distortion and noise are the most important performance criteria.
See full listing under **Audio Signal Processors**

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN, 55144-1000, 612-733-0447
Marketing Manager: Don Rada
Sales Manager: Don Sluder
Products: music libraries for all purposes. Reliable players. Industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems. Microphones, amplifiers and other sound system components.
See full listing under **Back/Foreground Systems Libraries**

Soundcraftsmen, 2200 S. Richey, Santa Ana, CA, 92705, 714-556-6191
V.P. Sales & Mkt'g.: Roger Hagemeyer
Products: MOS-FET power amplifiers for touring sound systems, recording studios, night clubs, churches, etc.
District Offices:
Component Marketers, Leonia, NJ, 201-947-9300
Protech Marketing, Newport Beach, CA, 714-650-5633
New Resource, Norwell, MA, 617-659-1463
Mid America, Milwaukee, WI, 414-742-2211
Summit Sales, Wylie, TX, 214-442-6052

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516
President: Louis W. Keller

V.P. & General Manager: James J. Ganci
V.P./Sales & Marketing: Mel Hulkower
Regional Sales Manager: Eric Forman
Regional Sales Manager: Bruce Kurtz
Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.

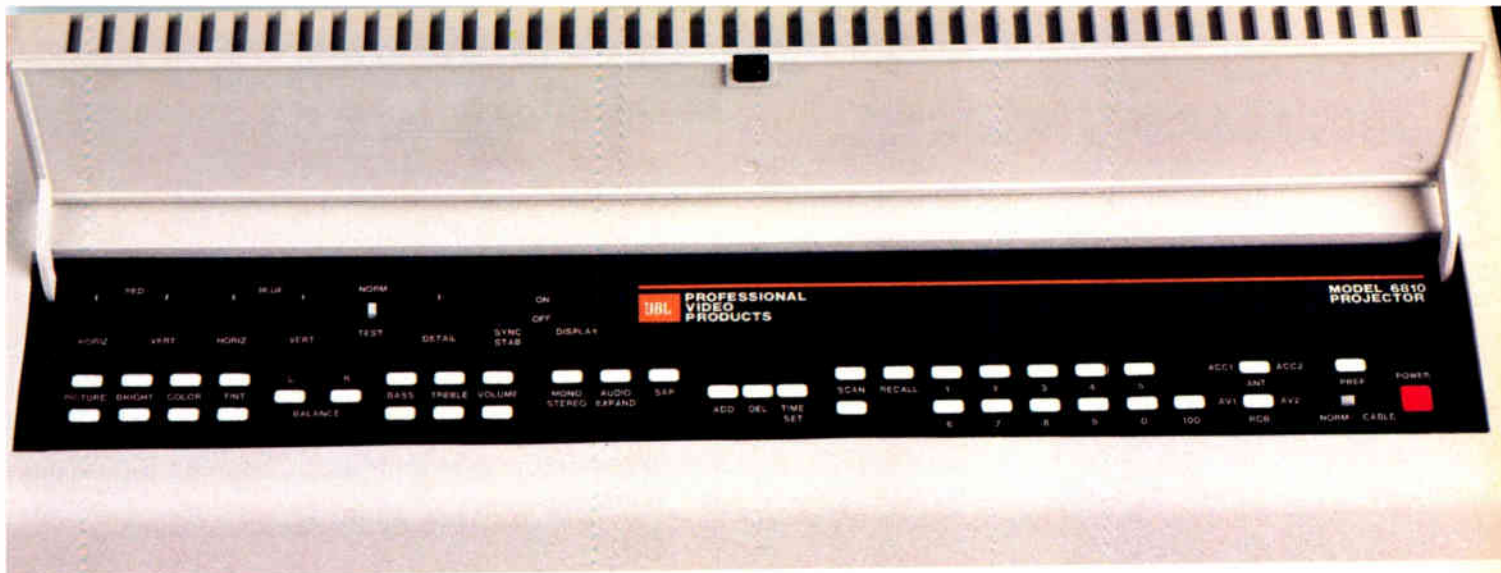
Spectra Sonics, 3750 Airport Rd., Ogden, UT, 84405, 801-392-7531
President/Owner: William G. Dilley
Engineer/Sales: Gregory D. Dilley
Products: amplifiers, mixers, equalizers, compressor/limiters, power supplies, speaker systems, and consoles. We specialize in sound reinforcement equipment.
See full listing under **Pro Audio Sound Systems & Products**

St. Louis Music, 1400 Ferguson Avenue, St. Louis, MO, 63133, 314-727-4512
Sales Training Dir.: Tony Moscal
Product Manager: Gary Byers
Dir. of Operations: John Karpowicz
President: Gene Kornblum
Products: musical instrument amplifiers, sound reinforcement equipment, mixing consoles, loudspeakers, power amplifiers.
See full listing under **Pro Audio Sound Systems & Products**

Studer Revox America, Inc., 1425 Elm Hill Pike, Nashville, TN, 37210, 615-254-5651
V. P./Gen. Mgr.: Thomas E. Mintner
Dir. of Prof. Products: David C. Bowman
Products: audio recorders - super low speed loggers and playback only machines to 2-inch multichannel; professional CD players & cassette recorders; computer controlled automation interface; mixing consoles - 19-inch & portable units to complete studio systems; amplifiers & loudspeakers.
See full listing under **Pro Audio Sound Systems & Products**

Sunn, 1130 Columbia Street, Brea, CA, 92621, 714-990-0909
President: Bill Schultz
Director of Mkt'g.: Joe Green
National Sales Mgr.: Don Johnston
Products: sound reinforcement products include: powered and non-powered mixers, mixing consoles, power amplifiers and speaker enclosures. Professional stage lighting products.
See full listing under **Pro Audio Sound Systems & Products**

Symetrix, Inc., 4211 24th Ave. West, Seattle, WA, 98199, 206-282-2555, 800-288-8855
President: Dane Butcher
Marketing Director: Doug Schauer



IF YOUR PROJECTOR ISN'T THIS FLEXIBLE NOW, IT NEVER WILL BE.

JBL's new Model 6810 Video Projector offers off-the-shelf flexibility the others can't touch.



The Model 6810's 40-function remote control puts sophisticated command in the palm of your hand.

An input panel that's worthy of a blue ribbon panel.

It's just one of the many reasons why JBL's new Model 6810 Video Projector is your most complete choice for a wide range of professional applications.

Unlike most other projectors, the Model 6810 is *born* brilliant. We knew you needed plenty of inputs, so we gave you six: enough RF inputs to accommodate antenna, cable, and satellite dish simultaneously. Plus plenty of inputs to handle your VCR, videodisc player, or computer. (Many competitive models give you just one or two inputs.)

Because your professional needs can change quickly, the Model 6810 offers impressive off-the-shelf flexibility. You can choose from floor or ceiling mounting, front or rear projection. And the picture size goes

from five to fifteen feet diagonally on virtually any type of screen surface, flat or curved.

But flexibility wouldn't mean much without a sharp, superior picture. The Model 6810 gives you an extra crisp picture because it has the widest video amplifier bandwidth of any projector on the market.



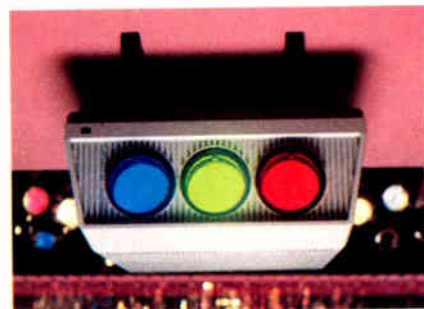
JBL's Model 6810 fits right into your environment, offering a choice of front or rear projection (5 to 15 feet diagonally) on all types of screens.

And just take a look at some of these Model 6810 exclusives:

...the only video projector with a built-in 178-channel tuner and stereo decoder for Zenith/dbx* stereo and Second Audio Program broadcast signals.

...the only video projector with a wireless 40-function remote control.

*Zenith is a registered trademark of Zenith Electronics Corporation. dbx is a registered trademark of DBX North America Ltd.



If floor space is at a premium, the Model 6810 can be ceiling mounted quickly and easily.

...the only video projector that supports onscreen graphics and lets you superimpose text.

...the only video projector that accommodates a variety of personal computers with just a flick of a switch (from analog to TTL). Many competitive models don't allow for TTL input, something that's absolutely necessary to connect an IBM PC.

JBL Professional, an audio legend for more than four decades, now offers a remarkably complete vision of what video projection is all about. To learn more about the Model 6810's professional performance and flexibility, contact your authorized JBL Dealer today.

JBL Professional
8500 Balboa Boulevard
Northridge, CA 91329



Mkt'g/Sales Admin: Lavina Speer
Products: signal processing equipment includes compressors, limiters, MIC input processor, expanders, gates, near-field monitoring power amp, and the 571 SPL computer microprocessor driven ambient sensing automatic level controller.
See full listing under **Pro Audio Sound Systems & Products**

Tannoy North America Inc., 300 Gage Ave. Unit-1, Kitchener, Ontario, Canada, N2M 2C8, 519-745-1158
Marketing Mgr.: Bill Calma
Sales Mgr.: Rob Hofkamp
Credit Mgr.: Kathy Kent
Products: dual concentric studio and broadcast reference monitors and amplifiers, wildcat professional P.A. for MI and for contractor applications.
See full listing under **Loudspeakers**

Tape-Athon Corp., 13633 Crenshaw Blvd., Hawthorne, CA, 90250, 213-676-6752
President: Leon E. "Lee" Tate
General Manager: Bob Haller
Director Engineering: Bernie Sayers
Director Finance/Mkt'g: John Bagley
Sales Manager: Rick Bottom
Products: reel-to-reel, cassette environmental on-site music systems, rack mount or portable. Chimes & carillon systems, messenger insertion units, full amplifier line. Customized background/foreground libraries.
See full listing under **Back/Foreground Systems Libraries**

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550
President: John Howe
Sales Manager/Microphones: Gary Fisher
Sales Manager/Intercom: Claude Kleiman
Director of Marketing: Donald Mereen
Products: dual antenna (diversity) wireless microphone systems, single antenna wireless microphone systems, wired microphones.
See full listing under **Pro Audio Sound Systems & Products**

Times One Technology, 22937 Arlington Ave., Torrance, CA, 90501, 213-325-5200, 714-554-0903
General Manager: Leo Young
CEO, Dir. of Engineering: Brahm Segal
Applications Engineer: Chris Calnan
Sales: Tim Edwards
Products: a patented design concept reduces phase delay in the signal at low and high level. Discmastering, and mixing studios have verified significant improvement in signal clarity. 100 watts @ 8Ω to 500 watts @ 8Ω, and 200 watts @ 4Ω to 960 watts @ 4Ω, 4-year warranty; depots in Europe, USA, Brazil, and Canada.
District Offices:
Design Workshop, New York, NY, 212-935-7222
Lakeside Assoc., Irvine, CA, 714-730-1333
James McFarren, Nashville, TN, 615-227-5027

Roger Questo, London, UK, 01-731-7434
Bill Kelsey, London, UK, 01-960-8178

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538
President: Yoshiro Ishida
V. P./Treasurer: Tom Kohsaka
V. P.: Bill Hooper
Controller: Cal Weddle
Products: Engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.
See full listing under **Pro Audio Sound Systems & Products**

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Mkt'g. Mgr. Sound Contracting: Steve Romeo
Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.
See full listing under **Audio Signal Processors**

Van Etten Audio Labs, P. O. Drawer 667, Shelby, NC, 28151-0667, 704-434-9365
President: David Cantrell

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707
President: P. W. Tarlton
V.P. Mktg/Sales: W.L. Goldstein
V.P. Engineering: Stephan W. Andrews
Market Mgr. Tel./Paging: Art Arlow
Market Mgr. Life Safety/Ind.: Rein Haus
Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications. Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.
See full listing under **Alarm & Security**

Yamaha International Corp., Audio Products Division, 6600 Orangethorpe Ave., Buena Park, CA, 90620, 714-522-9011
Gen. Mgr.: John Gatts
Nat'l. Sales Mgr.: Bob Shomaker
Adv. Mgr.: Robert T. Davis
Products: full line of audio mixing consoles, power amplifiers, speaker systems, digital signal processing equipment, and microphones.
See full listing under **Pro Audio Sound Systems & Products**

AUDIO SIGNAL PROCESSORS

ADA Signal Processors, Inc., 7303 D Edgewater Dr., Oakland, CA, 94621, 415-632-1323, 800-241-8888

President: David Tarnowski

General Manager: Michael Maia

National Sales Mgr.: Larry Marcus

Artist Relations/Sales: Dave Gonden

Technical Services Mgr.: Curtis Gomez

Products: MQ-1 is a fully programmable 2/3 octave stereo MIDI EQ designed for automated equalization in audio for video post production, MIDI and Project Studios. The MQ-1 has full MIDI implementation. Constant Q filters for minimizing sideband frequency interaction; active balanced inputs, 12 dB boost/cut on 2/3 octave ISO centers and 102 dB minimum EIN.

Advanced Music Systems, Billington Rd., Burnley, Lancashire, UK, BB11 5ES, 0282-57011

Managing Director: Mark Crabtree

Sales and Marketing Mgr.: Stuart Nevison

Sales Manager: John Gluck

Products: AMS Audiofile is a hard-disk based linear 16-bit record/edit/playback system, easily configured as a mono, stereo, or multitrack system, incorporating SMPTE/EBU timecode reader/generator for synchronization.

District Offices:

Harris Sound, Inc., Hollywood, CA, 800-233-1580

Calrec By AMS, Seattle, WA, 206-633-1956

Manta Electronics Group, Toronto, Ont, CD, 416-868-0513

Heaton Communications PTY, Ltd., Sydney, Australia, 02-428-3430

Continental Forest, Inc., Tokyo, Japan, 583-8451

AKG Acoustics, Inc., 77 Selleck St, Stamford, CT, 06902, 203-348-2121

President: Richard Ravich

Operations Manager: Derek Pilkington

Sales Manager: David Talbot

Service Manager: John T. Pyrch

Products: studio condenser microphones; prepolarized condenser microphones; professional dynamic microphones; wireless microphones, special purpose microphones, stereo microphones; headset microphones; stereo headphones; microphone stands; digital delays; digital reverbs; phonocartridges; and accessories.

See full listing under **Microphones**

Alesis Studio Electronics, 7336 Hinds Ave., N. Hollywood, CA, 91605, 213-467-8000

President: Keith Barr

V.P. Gen./Sales Mgr.: Russell Palmer

V.P. Marketing: Allen Wald

Products: a line of professional quality 16-bit digital signal processors including Midiverb II and Microverb. Features include numerous digital reverb programs, chorus and flange, delay functions, and special effects such as stereo generation. Alesis also makes a stereo signal gate, stereo enhancer, and stereo compressor/limiter.

District Offices:

Western Audio, Glendale, CA, 818-246-3806

Peter E. Schmitt Co., Leonia, NJ, 201-944-2806

Future Sales, Fairfax, CA, 415-459-6880

Applied Audio, Asheville, NC, 704-252-9313

Dobbs-Stanford, Dallas, TX, 214-358-0800



Altec Lansing Corp., Box 26105, Oklahoma City, OK, 73126-0105, 405-324-5311

President: F. Davis Merrey

V.P. Mkt'g.: Gary Rilling

Sales Manager: Gayle Campbell

Products: industrial and professional electronic and loudspeaker products including mixers, mixing consoles, power amplifiers, equalizers, compressor/limiters, high power speakers and compression drivers, constant directivity horns, crossovers, and microphones.

See full listing under **Loudspeakers**

Aphex Systems Ltd, 13340 Satco St. N., N.Hollywood, CA, 91605, 818-765-2212

Sales Manager: Paula Lintz

Product Manager: Jon Sanserino

Chief Engineer: Donn Werrbach

Technician: James Martindale

President: Marvin Caesar

Products: Aphex Compellor Model 300 stereo/model 301 mono - "Intelligent" leveling, compression and peak limiting simultaneously. All operating parameters are under control of compellor's analog computer circuits. Result is totally "invisible" audio dynamics control with no "pumping", "breathing" or other artifacts.

Applied Research and Technology, Inc.-ART, 215

Tremont St, Rochester, NY, 14608, 716-436-2720,

TLX:4949-793 ARTRC

President: Philip Betette

V.P. Sales & Marketing: Peter Beverage

V.P. Engineering: Tony Gambacurta

V.P. Manuf.: John Langlois

V.P. Engineering: Richard Neatrou

Products: digital signal processors including software-up-dateable; DR1 and Proverb digital reverberation systems; PD3 1-in 3-out fixed-installation delay; graphic equalizers; pitch transposers (timecompression/expansion); IEQ family of intelligent equalizers.

District Offices:

ART, Rochester, NY, 716-436-2720

ART, Mount Laurel, NJ, 609-778-3882

ASHLY

Ashly Audio, Inc., 100 Fernwood Ave., Rochester, NY, 14621, 716-544-5191

President: William Thompson

V.P. Sales/Mkt'g.: Robert French

V.P. Finance/Export Accts.: David Malloy

Products: MOS-FET power amplifiers, graphic equalizers, noise gates, limiter/compressors, electronic crossovers, parametric equalizers, notch filters, and OEM products.

See full listing under **Pro Audio Sound Systems & Products**

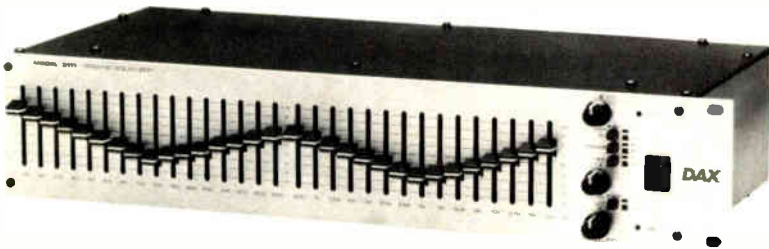
ATI - Audio Technologies, Inc., 328 Maple Ave., Horsham, PA, 19044, 215-443-0330
 President: Sam Wenzel
 Vice President: Edward M. Mullin
 Products: precision audio equipment for the broadcast including 8 & 12 mixer consoles, mike, line, turntable, distribution and power amplifiers, and the Match-Maker and Disc Patcher IHF to PRO interface amplifiers.
 See full listing under **Audio Amplifiers**



Audio/Digital, Inc., 1000 S. Bertelsen Rd, Suite 4, Eugene, OR, 97402, 503-687-8412, 800-423-1082

President: Gary Hardesty
 Sales Mgr.: Virginia Nott
 Chief Engr.: Gary Hardesty
 Products: specializes in Digital Signal Processing, provides DSP equipment for permanent installation, touring, recording studio, and radio broadcasting applications, including the ADD series of 2 and 3 output digital delays.
 District Offices:
 Triad Marketing Assoc., Wayne, NJ, 201-696-8625
 WesTech Marketing, Culver City, CA, 213-870-1030
 Gerald Horne Assoc., Stow, MA, 617-897-1741
 Lichtenauer & Assoc., Antioch, CA, 415-757-1200
 C.L. Pugh & Assoc., Columbus, OH, 614-486-9678
 Shalco, Inc., Ferndale, MI, 313-547-4771
 Meyer Marketing, Deerfield Beach, FL, 305-481-9250
 Monfort Electronics Marketing, Indianapolis, IN, 317-872-8877
 New Horizons Electronics Marketing, Bannockburn, IL,

PROFITS



The **DAX Model 3111** equalizer is designed to have a positive effect on your profit margin.

Low profile 45mm slide pots. Gain control. Bypass switch. 6/12dB switch. Switch controlled, adjustable, hi and low pass filters. Neutrik connectors. A s/n ratio of > 90dB. A retail price of **\$449**.

The **Model 3111** price/features ratio affords the contractor a positive margin for the competitive bid and gives the stocking dealer a unit that will help his inventory turnover.

To find out more about DAX Audio, contact us today...



DAX AUDIO GROUP, INC.
 1231 S.E. Gideon St.
 Portland, Oregon 97202
 (503) 232-4445
 TELEX 364412 INTR

Circle 267 on Reader Response Card

Do you need to know who makes paging systems or who at an intercom company you should talk to about their industrial intercoms? You'll find all the answers in the **SOUND & COMMUNICATIONS 1987 BLUE BOOK**

Sound & Communications

312-234-6500
Richard S. Pass Assoc., Inc., Lanhorne, PA, 215-757-6100
Rancilio Assoc., Inc., St. Louis, MO, 314-631-3326
Peregrine Southwest Reps, Houston, TX, 713-589-8481
RW Sales, Inc., St. Paul, MN, 612-646-2710
Wilson Audio Sales, Nashville, TN, 615-646-4477

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Chairman of the Board: John C. McLaren
Vice President: Scott Anderson
Nat'l. Sales Mgr.: Jim Lucas
Operations Mgr.: Jennifer Drescher
Products: audio signal processors.

District Offices:

John B. Anthony Co., Stamford, CT, 203-322-9202
McFadden Sales & Marketing, Columbus, OH, 614-761-3177
New Horizons Electronics, Bannockburn, IL, 312-234-5911
MetroRep Sales, Freehold, NJ, 201-462-1221
Ron Tunk Sales, Tamarac, FL, 305-722-2803

Biamp Systems, 14270 NW Science Park, Portland, OR, 97229, 503-641-7287

President: Ralph Lockhart
V.P. Engineering: Bob Doty
V.P. Finance: Jerry Payette
V.P. Manufacturing: Ralph Tennant
Sales Manager: Ron Camden

Products: American-made, high-quality, audio equipment for the sound contractor that includes; mixers, live and recording, rack-mount or console; powered mixers; microphone mixers; amplifiers; equalizers; and crossovers. See full listing under **Pro Audio Sound Systems & Products**

Brooks Electronic System Technology, 4061 E. La Palma Ave., Suite B, Anaheim, CA, 92807, 714-630-2383

C-T Audio Marketing Inc., 3050 SW 14th Place, Suite 3, Boynton Beach, FL, 33435, 305-738-0622, 282-8346
President: Andre Walton

Dir. Sales/Mkt'g: Sam Spennacchio
Products: c-ducer contact microphone, particularly popular for studio quality sound from piano. Stanz - range of speaker and lighting stands. O + M - range of high quality PA speakers. Omni Craft - range of studio noisegates. See full listing under **Microphones**

Cetec Ivie, 1366 West Center St, Orem, UT, 84057, 801-224-1800

President: Craig Berry
Mkt'g Manager: Glen Meyer
Production Manager: Larry Driskill
Products: a complete line of modular sound reinforcement electronics including mixers, equalizers, amplifiers, etc. We also have a line of octave & 1/3 octave hand-held real time analyzers and stand alone automatic microphone mixers.

Circuit Research Labs, Inc., 2522 W. Geneva Dr., Tempe, AZ, 85282. 800-535-7648

Marketing Director: Ray Updike
Sales Manager: Bob Richards
Products: Dynafex® single ended noise reduction systems.

Connectronics Corporation, 652 Glenbrook Road, Stamford, CT, 06906, 203-324-2889, 800-322-2537
Exec. V.P.: Richard Chilvers
Products: specialized high-flexibility colored audio wire and cable-everything from microphone cable through 32-pair foil-shielded multipair from phono cable to individually shielded and jacketed and color-coded multipairs, from "starquad" to heavy-duty four conductor speakerflex. Portable audio mixing console from "SECK." See full listing under **Wire/Cable Components**

Creative Audio Design + Development, 18750 Panama, Brossard, Que., CD, J4W2S8, 514-672-8862
President: Pierre Pare
V.P. Engineering: Shane Morris
Engineering R&D: Denis Lambert
Products: house console w/40 mic inputs, 8 stereo returns, 8 mono line inputs, 8 mono aux, 4 stereo aux, 8 matrix outputs, 2 stereo mixing busses, and 3 stereo outputs. Monitor console w/40 mic inputs, 4 aux outputs (remixable to groups), 4 sub inputs, 16 group outputs with 5-band parametric EQ. Digital crossover w/full 16-bit, 3 band stereo 60 dB/oct linear phase. See full listing under **Mixers & Mixing Consoles**

D & R USA, 1720 Chip N Dale Drive, Arlington, TX, 76012, 817-548-1677
Nat'l Sales Director: Paul Westbrook
Products: US distribution for II mixers, from disco to fully automated studio console. Sound reinforcement and recording mixers with up to 80 inputs. More than 15 different rack-mount signal processors. See full listing under **Mixers & Mixing Consoles**

DAX Audio Group, Inc., 1231 S.E. Gideon St., Portland, OR, 97202, 503-232-4445
President: Rich Stevenson
Engineering Manager: Bob Herb
Products: graphic equalizers, 31-bands, dual 15-band, and dual 31-bands; mixing consoles from 8x2 to 32x8; powered mixers in 6 and 8 channels; real-time analyzer; amplifier; crossover. See full listing under **Mixers & Mixing Consoles**

dbx, Div. of BSR North America, Ltd., 71 Chapel St., Newton, MA, 02195, 617-964-3210
Sls Mgr., Pro/OEM Products: John Stiernberg
Dir. of Prod. Development: Scott Berdell
V.P. Engineering: Les Tyler
V.P. Sales: Jim Tipton
President: A.J. Menozzi
Products: patented noise reduction equipment, compressor/limiters, de-essers, noise-gates, RTA-1 real-time analysis system, equalizers, signal routing and processing equipment; patented OEM components, and licensed technology; digital signal processors.
District Offices:
Scott Sylvester, San Diego, CA, 619-267-4143
Mitch Zusman, Mississauga, ON, 416-275-0363

DOD Electronics Corp., 5639 South Riley La., Salt Lake City, UT, 84107, 801-268-8400, FAX 801-262-4966, TLX 4943178

President: John Johnson

V. P. Engineering: David DiFrancesco

V. P. Finance: Jay Fuller

International Sales: Wayne Morris

Mkt'g Communications: Dean Stubbs

Products: DOD Signal Processing products: graphic equalizers, compressors, cross-overs, mixer, digital delay.

DigiTech products: digital delays, reverberation units.

Audio Logic products: noise gate, compressor/limiter, cross-over, graphic equalizers, room delay, Psychoacoustic Processor.

Dorrrough Electronics, 5221 Collier Pl., Woodland Hills, CA, 91364, 818-999-1132

President: Mike Dorrough

Products: Bourrough Loudness Meter simultaneously displays peak and average on one LED array. The ballistics were designed to show equal perceived power between peak and average regardless of the complexity of audio waveforms.

See full listing under **Pro Audio Sound Systems & Products**

Edcor, 1948 East Pomona, Santa Ana, CA, 92705, 714-863-1529, 800-854-0259

Sales Manager: Deanna Weston

Chief Engineer: Luis Bonand

Production Manager: Tina Lopez

Treasurer: Phyllis Weston

Products: complete line of electronic commercial sound products including power & mixer amplifiers, E-Q amps,

microphone/line mixers, automatic & gated mixers, wireless microphones systems, translation systems, transformers and private label products.

See full listing under **Pro Audio Sound Systems & Products**

Editron USA, Inc., 748 N. Seward St., Hollywood, CA, 90038, 213-464-8723

Products: audio/video synchronizers.

Eltrex International, 2 Columbia Dr., Amherst, NH, 03031, 603-886-3500

Products: digital voice recorder, auto answer and playback. See full listing under **Message Repeaters/Storecasters**

Eventide, Inc., One Alsan Way, Little Ferry, NJ, 07643, 201-641-1200

President: Richard Factor

Sales Manager: Gil Griffith

Products: Precision Audio Delay, Model PD860-two channel device with user selectable delay increments of 1 microsecond. Ideal for AM synchronous transmission, speaker array time alignment, lab & test functions.

Harmonizer® pitch change/effects units, SP2016 digital reverb, real-time spectrum analyzers with RT-60 and spectra surface analysis capabilities.

District Offices:

Innovative Sales and Mkt'g, Santa Ana, CA, 714-549-7770

Innovative Sales and Mkt'g, San Francisco, CA, 415-952-0943

FM Acoustics Limited (USA), PO Box 854, Benicia, CA, 94510, 707-745-4444

Pres.(FM Acoustics LTD): Manuel Huber

WE INTERRUPT THIS MAGAZINE...



Security cover available.

...For the world's first fully-reliable, easy-to-install automatic ambient sensing level controller.

Symetrix

From sedate hotel lobbies to noisy factory floors, the problem's the same: Announcements and music are either too loud or too soft (and some unauthorized person is always reaching for the gain control). Previous attempts to solve the problem were either a pain to calibrate or ran away on their own at the worst possible moment.

The new Symetrix 571 SPL Computer installs in minutes without test gear. And then uses internal microprocessor software to monitor ambient sound level like a sharp on-site operator: It instantaneously and accurately differentiates between ambient noise and music/paging signals. And then makes smooth, automatic, *error-free* gain adjustments.

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Dir.(FM Acoustics USA): Gene Michalski
Products:line of premium swiss made amplification equipment for studio, theatre and quality sound enhancement applications. Electronic crossovers with 36db attenuation and linear phase. Precision balanced line drivers and line level interfaces. High energy transfer speaker cable.
See full listing under **Audio Amplifiers**

Furman Sound, Inc., 30 Rich St., Greenbrae, CA, 94904, 415-927-1225
President: Jim Furman
Sales Manager: Joseph Desmond
Chief Engineer: Jim Murphy
Materials Manager: Ed Specht
Products: 24 DB/Octave crossovers; graphic and parametric equalizers, limiter/compressor/expanders; quad noise gates; patch bays; power conditioner and light modules (PL-8 and PL-PLUS); rack mount mixers; power output monitors; digital reverb systems.
District Offices:
S. F. Marketing, St. Laurent, Quebec, 514-733-5344
Metropolis Marketing, Edison, NJ, 201-225-0085
New Horizons, Bannockburn, IL, 312-234-6500
Secom Systems, Atlanta, GA, 404-455-0672
Professional Audio Assoc., Burlington, MA, 617-229-6050

Gold Line, P.O. Box 115, W. Redding, CT, 06896, 203-938-2588
President: Martin E. Miller
V.P. Marketing: Marj Miller
Products:10-band and 1/3-octave real-time analyzers, Loft Professional crossovers and quad-gate limiters, and Loftech audio test sets.
See full listing under **Pro Audio Sound Systems & Products**

Gotham Audio Corp., 1790 Broadway, New York, NY. 10019-1412, 212-765-3410
President: Russ R. Hamm
Eastern Sales Mgr.: Jerry Graham
Western Sales Mgr.: Juergen Wahl
Sales Engineer: Peter Engel
Products:Neumann condenser microphones, limiters/compressors, and equalizers and accessories; EMT digital delays; Gotham audio cable; K & H loudspeakers, and parametric equalizers; Audio Developments mixers; NTP limiters/compressors and meters.
See full listing under **Microphones**

Industrial Research Products, 321 Bond St., Elk Grove Village, IL, 60007, 312-439-3600
General Manager: Mahlon Burkhard
Marketing Manager: Roger Carroll
Products:transversal equalizers, automatic microphone mixers, digital delay lines, power amplifiers, level-matic limiter.
See full listing under **Pro Audio Sound Systems & Products**

Innovative Electronic Designs, Inc., 9701 Taylorsville Rd, Louisville, KY, 40299, 502-267-7436
President: Hardison G. Martin
V.P. Engineering: Robert Ponto
Treasurer: Ray Allen
Dir. Mkt'g. & Sales: Tom Roseberry
Products:models 500 & 500AC microcomputer controlled audio systems, controlling mixing, routing, and level ad-

justment. 4000 automatic mixer, 5000 audio processing system. 70-volt and low impedance 8ohm version 6270 power amplifier.

See full listing under **Pro Audio Sound Systems & Products**

Inovonics, Inc., 1305 Fair Ave., Santa Cruz, CA, 95060, 408-458-0552
President: James B. Wood
Operations Mgr.: Ann Pelz
Products: a line of audio recording, signal processing and instrumentation equipment for studio, film and broadcast.

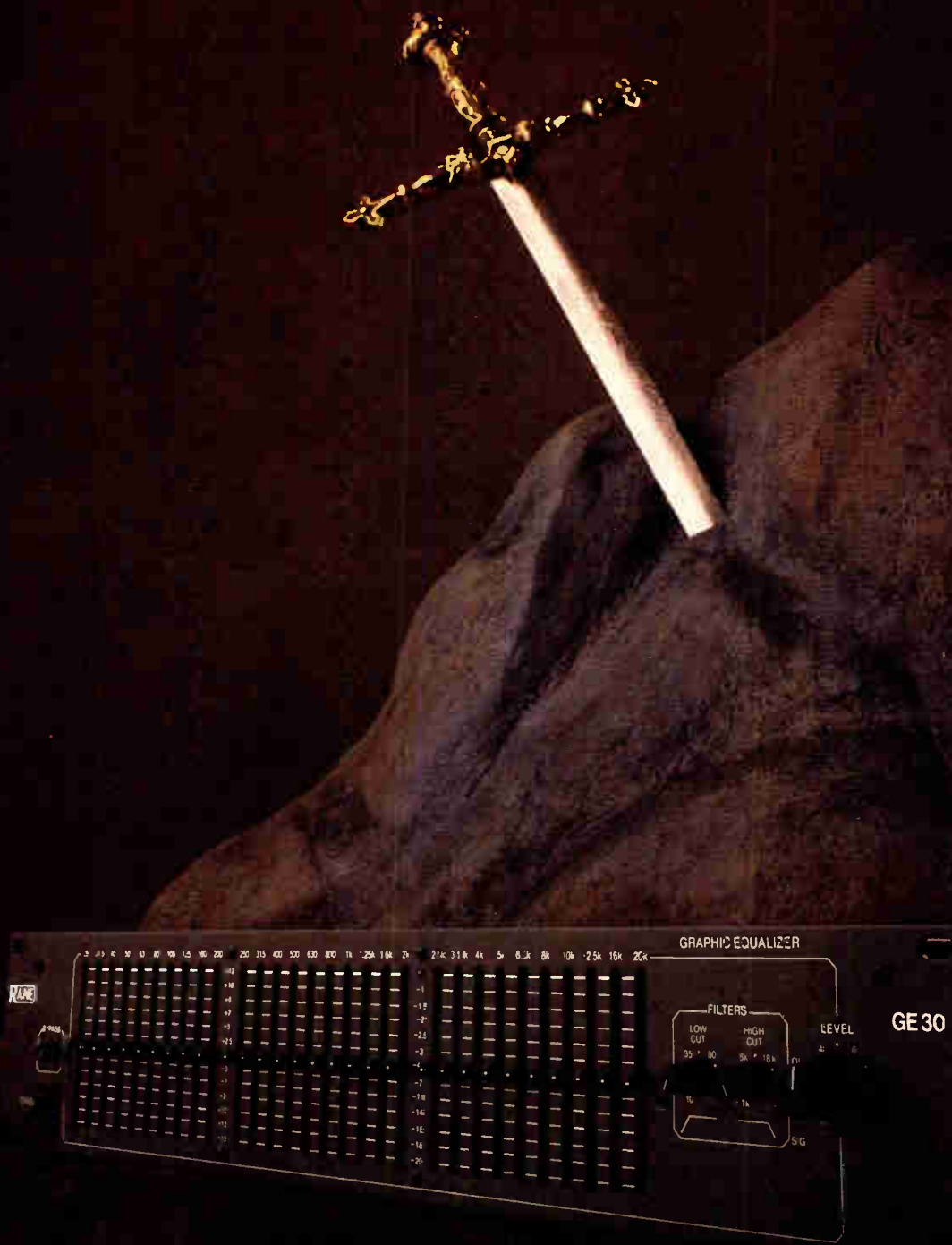
International Music Co. (I. M. C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114
Chairman of the Bd./CEO: Tommy Moore
President: Jerry Freed
V.P. Sales: C.H. Murray
Dir. of Akai EMI: Mike McRoberts
Akai Product Specialist: Kevin Kennedy
Products: Akai: multitrack recorders, digital patch bays, digital samplers, electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones, and effects.
See full listing under **Pro Audio Sound Systems & Products**

IQS, Inc., 12812-J Garden Grove Blvd., Garden Grove, CA, 92643, 714-539-7842
President: William Elder
V. P.: Douglas Evered
Products:Audio Signal Analyzers, PC-based Models 401 and 416-2a single and dual channel; Reference Microphones - Model 302, 20-20kHz; Model 312, 5-40kHz; Arbitrary Waveform Signal Generator - Model SSM-1; Audi Analysis FFT Software - Spectrum Analyst Pak 1®; Signal Analyst Pak®.
See full listing under **Test Equipment & Tools**

JBL Professional, 8500 Balboa Blvd, Northridge, CA, 91329, 818-893-8411
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Market Manager/Sound Contracting: Steve Romeo
Products:high quality loudspeakers and loudspeaker systems of all kinds; automatic microphone mixer; electronic crossover; special loudspeakers for musical instruments; video projector.
See full listing under **Loudspeakers**

Klark-Teknik Electronics, Inc., 30B Banfi Plaza N, Farmingdale, NY, 11735, 516-249-3660
President: Jack Kelly
Sales Manager: Keith Worsley
Salesman: Harry Klane
Service Manager: Jim Jacobelli
Products: 1/3 and 2/3 octave graphic equalizers, parametric equalizers, digital delay lines, digital reverberation systems, sound masking processors, reference monitors, 1/3 octave RTA w/RT-60 measurement capabilities, BSS crossovers, compressor/limiter, MIDI noise gate, mic splitter, ancillary equipment.
District Offices:
Klark-Teknik West, Oakland, CA, 415-482-1800
Derek Allen Assoc., Toluca Lake, CA, 818-840-8327

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Professional Audio Mkt'g, Melville, NY, 516-367-8620
Audio Resources, Westmont, IL, 312-655-1180
M. Chaffe Enterprises, Sarasota, FL, 813-921-4294

Korg U.S.A., Inc., 89 Frost St., Westbury, NY, 11590, 516-333-9100

President: Don England
Exec. V.P.: Michael Kovins
V.P. Sales: Art Miller

Products: synthesizers, signal processing equipment, drum computers, electronic tuners, and Marshall amplification.

See full listing under **Pro Audio Sound Systems & Products**

Leitch Video Limited, 10 Dyas Road, Don Mills, Ontario, Canada, M3B1V5, 416-445-9640

Products: Audio distribution amplifiers.

District Offices:

Leitch Video of America, Inc., Chesapeake, VA 23320

Leitch Video of America, Inc., Grass Valley, CA, 95945

Lexicon, Inc., 100 Beaver ST., Waltham, MA, 02154, 617-891-6790

President: Ronald Noonan

Dir. of Sales: Joel Silverman

Advanced Prod. Sales Mgr.: Brian Zolner

B'cast. Sales Mgr.: Lawrence Rich

Products: digital audio delay and reverberation systems., broadcast quality audio time compressor/expanders, digital audio/video delay compensators, random access digital production system.

Lyntec/Technical Visuals, 7030 Grandview, Merriam, KS, 66204, 913-722-4047

President: Lynn J. Potter

Products: programmable audio controller for time/level control of masking noise & music/paging. Masking noise source with SLO-START. Programmable Multi-channel attenuator for remote selection of A, B, or C field presettable levels & mute.

See full listing under **Sound Masking Products & Systems**

Marcom/The Scotts Valley Group, Inc., P. O. Box 66507, Scotts Valley, CA, 95066, 408-438-4273

Products: modulator/monitor-stereo generator.

Micro Audio, Inc., 4438 S.W. Hewett, Portland, OR, 97221, 503-292-8896, 800-445-1248

President: Eugene B. Rimkeit

Dir. of Engineering: Richard Schomburg

V.P. Manufacturing: David Elsbernd

Sales Mgr.: M.C. Garrison

Products: computer-controlled 1/3 octave equalizers, programmers include the μ A2800 EQ POD Programmer/Automatic EQ/RTA, a hand-held programmer, and the software/hardware to turn the IBM PC® into a programmer.

District Offices:

Professional Sound & Light, Lakewood, CO, 303-

Western Audio Sales, Glendale, CA

Signal Marketing

Powerlines Marketing

McFadden Sales

Orban Associates, Inc., 645 Bryant St., San Francisco, CA, 94107, 415-957-1067

Marketing Manager: Sid Goldstein

Products: full line of signal processing including equalizers and multi-function level control devices for protecting sound systems.

Oxmoor Corporation, 237 Oxmoor Circle, Birmingham, AL, 35209, 205-942-6779

President: Lynn A. McCroskey

Production Manager: Steve Holt

National Sales Mgr.: Richard Mitchell

Products: DEQ-29 Programmable 1/3 Octave Equalizer with 100 non-volatile memory locations; DCA-2 Digital Control Attenuator and RC-16 remote control unit; 4x4 Buffer Amplifier with independent mixing busses, any of the four inputs can be assigned to any of the four outputs.

District Offices:

Allwest Electronics, Camaville, CA, 805-388-1789

Dimension IX Marketing, Dallas, TX, 214-348-9657

Loppnow & Assoc., Redmond, WA, 206-883-3205

Yore Company, White Bear Lake, MN, 612-770-9760

Repworks, Chicopee, MA, 413-533-0845

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365

Prod Mgr/Sound Reinf.: Hollis Calvert

Prod Mgr/Digital Product: Ken Valentine

Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.

See full listing under **Pro Audio Sound Systems & Products**

Protech Audio Corp., Flowerfield, Bldg. #1, St. James, NY, 11780, 516-584-5855

Sales Mgr.: Bill Murphy

Sales Engineering: Joe Giambone

Products: automatic level controls, voltage controlled amplifiers, distribution amplifiers, mixers, tone supervisor systems, microphone and line preamplifiers, compressor/limiters, switching cards, ramp controlled preamplifiers, engineered and modular sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Rane Corp., 6510 216th S.W., Mountlake Terrace, WA, 98043, 206-774-7309

V.P. Marketing: Larry Winter

Dir. Tech. Dev.: Terry Pennington

Products: graphic and parametric equalizers, real-time analyzers, headphone amps, active crossovers, program mixers, splitters, compressor/limiters.

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119

President: Bob Ringer

V. P. Mkt'g: Douglas Leighton

Sales Manager: Shelley Harrison

Sales Engineer: Dave Richardson

Chief Engineer: Stan Hubler

Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems.

Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.

See full listing under **Intercom Duplex**

Scantek Inc./Norwegian Electronics, a/s, 1559 Rockville Pike, Rockville, MD, 20852, 301-468-3502

President: Richard J. Peppin, P.E.

Service Manager: Gary Fraiman

Business Manager: Susan Yardin

Products: precision electronic instrumentation for sound analysis and measurement, includes real-time analyzers, automatic spectrum shapers, building acoustic instruments.

District Offices:

Klaveness & Assoc., Fair Oaks, CA, 916-966-1227

ESC, St. Louis, MO, 314-725-0933

SCV Inc., 1101-A Air Way, Glendale, CA, 91201, 818-500-0137

Sonic Research Assoc., PO Box 13744, Arlington, TX, 76094-0744, 817-792-2061



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Call toll free, **1-800-423-1082** for more information on the ADD-2, ADD-3, single output TC-5 or modular ADX-2000, or write:

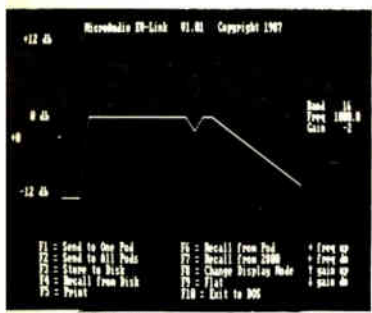
Features:

- 0 to 490 millisecond delay in 1 ms steps
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- 16 bit linear PCM
- Less than 0.08% THD + Noise
- 90 dB dynamic range
- Active balanced in and out
- Alphanumeric display
- Security mode
- Optional Jensen transformers available
- XLR connectors
- One rack space.

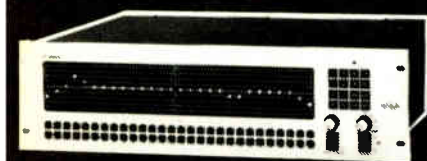


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President/Marketing: Kyle A. Holbrook
V.P. Technology: Michael J. Yacavone
Operations Manager: Olvy L. Johnson
Products: Tri-Ambient Synthesis Stereo Enhancement System™, the operating principle is to combine a specific loudspeaker geometry with electronic circuitry in order to present the brain with information necessary to perceive the finer detail in stereo recordings.

Sontec Electronics Inc., Audio Dr., Goldbond, VA, 24094,
703-626-7256

Sales Manager: Burgess Macneal
Products: amplifiers and signal processors for use where extremely low distortion and noise are the most important performance criteria.

Sound Control Technologies, Inc., 114A Washington Street, Norwalk, CT, 06854, 203-854-5701

President: Adolph Neaderland
Sales/Mkt'g: David Neaderland
Products: full duplex patented VOICELIFT™ voice reinforcement and TELEPLEX™ teleconferencing systems for boardrooms, conference and training rooms and teleconferencing areas. Proprietary implant microphones for both plenum and non-plenum installations.
See full listing under **Teleconferencing Systems**

Spectra Sonics, 3750 Airport Rd., Ogden, UT, 84405,
801-392-7531

President/Owner: William G. Dilley
Engineer/Sales: Gregory D. Dilley
Products: amplifiers, mixers, equalizers, compressor/limiters, power supplies, speaker systems, and consoles. We specialize in sound reinforcement equipment.
See full listing under **Pro Audio Sound Systems & Products**

Studio Master Systems, 229 Sunny Isles Blvd.-PO Drawer P, N. Miami Beach, FL, 33160

Studio Technologies, Inc., 5520 West Touhy Ave., Skokie, IL, 60077, 312-676-9177

President: Gordon Kapes
Director of Marketing: Carolyn Cashel
Products: The Mic-PreEminence is a high performance, two channel microphone preamplifier designed to produce a transparent, extremely clean sound. The ISS Integrated Simulator System is a completely modular audio simulator designed for flexible, reliable and great sounding MTS broadcasting.

Sunn, 1130 Columbia Street, Brea, CA, 92621, 714-990-0909

President: Bill Schultz
Director of Mkt'g: Joe Green
National Sales Mgr.: Don Johnston
Products: sound reinforcement products include: powered and non-powered mixers, mixing consoles, power amplifiers and speaker enclosures. Professional stage lighting products.
See full listing under **Pro Audio Sound Systems & Products**

Symetrix, Inc., 4211 24th Ave. West, Seattle, WA, 98199,
206-282-2555, 800-288-8855
President: Dane Butcher
Marketing Director: Doug Schauer
Mkt'g/Sales Admin: Lavina Speer
Products: signal processing equipment includes compressors, limiters, MIC input processor, expanders, gates, near-field monitoring power amp, and the 571 SPL computer microprocessor driven ambient sensing automatic level controller.
See full listing under **Pro Audio Sound Systems & Products**

Tascam/TEAC Professional Division, 7733 Telegraph Road, Montebello, CA, 90640, 213-726-0303
Marketing Manager: Bill Mohrhoff
Sales Manager: Gregg Hildebrand
W. Reg. Manager: Fred Allard
S. Reg. Manager: Bill Stevens
E. Reg. Manager: Chuck Prada
Products: professional recorder/reproducers from 1/4" 2-track to the ATR-80, a new 2" 24-track designed for video production. Recording and performance consoles from 6-input to the M-600, a 32-input/16-buss large frame console. Also, receivers, cassette decks, and CD players.
See full listing under **Magnetic Tape Systems & Supplies**

TDM Design, Route 1, Box 573, Hillsboro, OR, 97124,
503-647-5957
Products: crossovers.

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550
President: John Howe
Sales Manager/Microphones: Gary Fisher
Sales Manager/Intercom: Claude Kleiman
Director of Marketing: Donald Merein
Products: dual antenna (diversity) wireless microphone systems, single antenna wireless microphone systems, wired microphones.
See full listing under **Pro Audio Sound Systems & Products**

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Mkt'g. Mgr. Sound Contracting: Steve Romeo
Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.
District Offices:
Neil Conly, Bedford, TX, 817-540-3066
Bill Hamilton, Folsom, PA, 215-543-4677
Steve Armstrong, Northridge, CA, 818-707-2529
Steve Armstrong, Northridge, CA, 818-707-2529

Valley International, Inc., P.O. Box 40306, 2817 Erica Pl., Nashville, TN, 37204, 615-383-4737
President: Norman Baker

What's new? Sound & Communications

Products section showcases several products every month by both large and small manufacturers.

Sound & Communications

also includes commentary by Gary Davis (noted technical writer and consultant) in our Products in Review section.

This commentary helps sort out what is a new product and what is an update on a previous product.

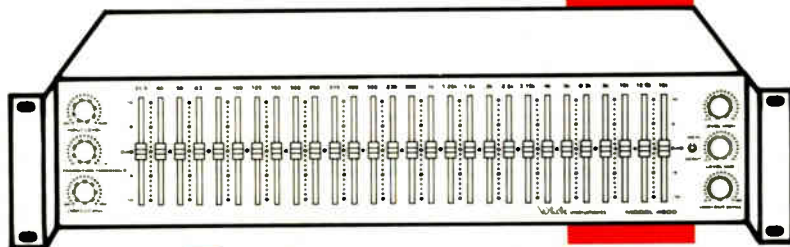
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TELEX 776409 WHITE INST AUS
512/892-0752

Sales Manager: Tom Irby
Chief Engineer: Michael Morgan
Products: limiters, compressors, expanders, noise gates, de-essers, equalizers, microphone processors, line amplifiers/attenuators, voltage controlled amplifiers, gain cells, transistor arrays.

White Instruments, P.O. Box 698, Austin, TX, 78767, 512-892-0752, TLX: 776-409 INST AUS

President: Carl Van Ryswyk

V.P.: Shirley Van Ryswyk

Mkt'g. Mgr.: Emory Straus

Products: graphic equalizers, real-time analyzers, crossover networks & filters for audio applications, masking generators.

District Offices:

Audio Marketing Assoc., Brecksville, OH, 216-526-2426

Avwest, Inc., Fountain Hills, AZ, 602-946-1811

Bensik Assoc., Inc., Ocala, FL, 904-732-9775

Design Factors, La Habra Heights, CA, 213-697-7576

Gemini Electronic Marketing, Edmonds, WA, 206-776-3121

L.S.M., Phelps, NY, 315-548-4891

Metrorep Sales, Inc., Freehold, NJ, 201-462-1221

Monfort Electronics Marketing, Indianapolis, IN, 317-872-8877

New Resources, Inc., Norwell, MA, 617-659-1463

Rancilio Assoc., St. Louis, MO, 314-631-3326

Rep Tech, Inc., Terrell, TX, 214-222-2131

Richard S. Pass Assoc., Inc., Langhorne, PA, 215-757-6100

Shalco, Inc., Ferndale, MI, 313-547-4771

Warren Associated Sales Reps, Santa Clara, CA, 408-988-7762

Wilson Audio Sales, Nashville, TN, 615-646-4477

Ziskind Assoc., Inc., Rolling Meadows, IL, 312-577-1624

Yamaha International Corp., Audio Products Division, 6600 Orangethorpe Ave., Buena Park, CA, 90620, 714-522-9011

Gen. Mgr.: John Gatts

Nat'l. Sales Mgr.: Bob Shomaker

Adv. Mgr.: Robert T. Davis

Products: full line of audio mixing consoles, power amplifiers, speaker systems, digital signal processing equipment, and microphones.

See full listing under **Pro Audio Sound Systems & Products**

President: Scott Miller

V.P. Sales/Mktg.: Bruce Christianson

Products: remote control systems for media & environmental equipment. SX Series features: programmable controls, wireless (RF), software (3-6 wires) or custom control panels. SX16+ & DCU for infrared & serial data control unit.

See full listing under **Remote Controls**

Anchor Audio Inc., 913 West 223rd St, Torrance, CA, 90502, 213-533-5984

President: Jim Van Waay

National Sales Manager: Jon Peirson

Products: portable sound systems and accessories, lecturns, as well as powered speaker systems for foreground and background applications.

See full listing under **Portable Sound Systems**



Argos Products Co., 600 S. Sycamore St., Genoa, IL, 60135, 815-784-5118

President: Donald C. MacLaughlin

Sales, V.P.: Ronald Evers

Credit Manager: Rosella Johnson

Chief Engineer: Loren Schrader

Products: indoor /outdoor Sound Columns, packaged sound systems, Portable PA systems, Sound powered lecturns, background & foreground speakers, baffle/speaker combinations, baffles & enclosures.

See full listing under **Loudspeakers**

Avtec Industries, Inc, 5 Audrey Pl., Fairfield, NJ, 07006, 201-882-9460

Products: Vantage Point™ multi-media lecturn and Conferscan™ boardroom conference table designed to record meetings (audio and video).

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Chairman. of the Board: John C. McLaren

Vice President: Scott Anderson

Nat'l. Sales Mgr.: Jim Lucas

Operations Mgr.: Jennifer Drescher

Products: audio signal processors.

See full listing under **Audio Signal Processors**

Boston Acoustics

Boston Acoustics, 247 Lynnfield St., Peabody, MA, 01960, 617-532-2111

Chairman of the Board: Frank Reed

President: Andy Petite

Director of Mkt'g: Richard Frank

Sales Manager: Fred Pinkerton

Products: Boston Acoustics Designer Series Products: high fidelity loudspeakers can be used as main or extension speakers in the home and commercial spaces. They

AUDIO-VISUAL EQUIPMENT/SYSTEMS

Adaptive Micro Systems, Inc., 7840 N. 86th St., Milwaukee, WI, 53224, 414-357-2020, 800-558-7022
Products: electronic display units.

AMX, 12506 Forestgate Dr., Dallas, TX, 75243, 214-644-3048

mount flush in new or existing walls or ceilings and can be painted.

See full listing under **Loudspeakers**

Centro Corp., 369 Billy Mitchell Rd., Salt Lake City, UT, 84116, 801-537-7779

President: Don Skaggs

Exec. V.P./General Manager: John Harris

V.P. Mkt'g & Product Dev.: Curtis Chan

V.P. Sales: Bob Strout

V.P. Special Projects: Rex Reed

Products: specialties in design, fabrication and implementation of facilities in the broadcast, production, business, and institutional marketplaces. Also, mobile units, and custom racks and consoles.

Jim Schlott, Ramsey, NJ, 201-934-7574

Communications Co., Inc, 3490 Noell St., San Diego, CA, 92110, 619-297-3261

Products: programmable two-way intercom amplifier w/vox., media distribution amplifier, projector patch, room combining systems, record patch, RT-60 reverberation measuring device, burst octave noise generator, 1/3 octave real time analyzer, 27 B.I.T. oscilloscope adapter, audio inductive loop receivers.

See full listing under **Intercom Institutional/School**

Crestron Electronics, Inc., 101 Broadway, Cresskill, NJ, 07626, 201-894-0660

Sales Manager: George Herbert

Dir. of Dealer Sales: Patricia Large

Products: off-the-shelf and custom designed wired and wireless a/v control systems with a variety of interface modules; dissolve controls; audio-video-control switchers; architectural dimming systems; random access projectors.

R. C. S., LTD., Yorktown Heights, NY, 914-245-2866

R. C. S., LTD., Zionsville, IN, 317-873-4740

Marketline Inc., Snellville, GA, 404-972-9048

Lex Lawson & Assoc., Garland, TX, 214-272-8482

Loomis & Assoc. Inc., Alameda, CA, 415-865-2200

D.O. Industries, 317 East Chestnut St., E. Rochester, NY, 14445, 716-385-4920

Products: slide projectors, laser pointers, video pointers.

Da-Lite Screen Co., Inc., P.O. Box 137, Warsaw, IN, 46580, 219-267-8101

FSR, Inc., 220 Little Falls Rd, Cedar Grove, NJ, 07009, 201-239-0988

President: William G. Fitzsimmons

Vice President: Janice Sandri

Engineering Mgr.: Joseph Fischer

Production Mgr.: John Macaluso

Service Dept.: Robert Allen

Products: boardroom control systems (digital, IR and hard-wired); hotel audio combining systems; remote control modules for audio and video applications; custom engineering and metal products.

See full listing under **Remote Controls**

GBE Group, P.O. Box 118, Fair Oaks, CA, 95628, 916-967-5946

President: Robert Bird

Vice President: George Anderson

Products: medical/dental, audio/visual communications;

audio distribution & selection equipment; medical/dental call light systems.

Hudson Photographic Industries, Irvington-On-Hudson, NY, 10533, 914-591-8700

Products: screen rear projections, mirrors, video transfers, screen, tape menders and splicers.

JBL Professional, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

See full listing under **Loudspeakers**



Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: Interview™ combination audio/visual intercom and door control systems for private homes, commercial applications and multi-unit housing. Sony Watchcam™ systems.

See full listing under **Intercom Apartment/Residential**

Omni Q Inc., 925 Boblett St., Blaine, WA, 98230, 206-384-1750

Products: sound imaging, multi-media control systems and computer response systems.

See full listing under **Power Protection/Conditioners**

Opamp Labs Inc., 1033 N. Sycamore Ave., Los Angeles, CA, 90038, 213-934-3566

Chief Engineer: B. Losmandy

Products: audio/video equipment, audio/video distribution amplifiers & routing switchers.

P/H Electronics, Inc., 117 E. Helena St., Dayton, OH, 45404, 513-461-5898

General Mgr: Noel Anderson

Sales Coordinator: Donna Martin

Products: simultaneous interpretation systems, cordless, for international meetings or conferences, unlimited number of listeners, portable.

Panasonic Industrial Company/Ramsa, 6550 Katella Ave, Cypress, CA, 90630, 714-895-7272

National Marketing Mgr.: Steve Wooley

Products: Ramsa, the professional audio division of

Panasonic Industrial Company's Audio/Video Systems

Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Portland Instrument, 1101A Air Way, Glendale, CA, 91201, 818-500-0137, TX-989-473Portland

President: Ronald Fuller

Prod. Mgr./Outdoor Sys.: Hendri Smit

P. R. Cable Assembly: Jack Sympton

Prod. Mgr./Indoor Sys.: Jack Sympton

Production Manager: Scott Teffin

Products: Paramount pictures "omnispeaker" an outdoor waterproof landscape speaker for background music and paging, 80 Hz to 18 KHz, 50 watts RMs. Also viro square & viro dome waterproof wall and pole mount, 70V and 8 Ohm versions of outdoor speakers.

See full listing under **Loudspeakers**

Research Technology International, 4700 W. Chase Ave., Lincolnwood, IL, 60646, 312-677-3000

President: Ray L. Short, Jr.

V.P. Sales: Thomas Tisch

V.P. Sales: Thomas Boyle

Chief Financial Officer: Rick Peterson

Advertising Manager: Sherwin Berger

Products: Video/Film Care Products including inspection and cleaning machines, accessories, storage racks, and film reels and cans.

Tascam/TEAC Professional Division, 7733 Telegraph Road, Montebello, CA, 90640, 213-726-0303

Marketing Manager: Bill Mohrhoff

Sales Manager: Gregg Hildebrand

W. Reg. Manager: Fred Allard

S. Reg. Manager: Bill Stevens

E. Reg. Manager: Chuck Prada

Products: professional recorder/reproducers from 1/4" 2-track to the ATR-80, a new 2" 24-track designed for video production. Recording and performance consoles from 6-input to the M-600, a 32-input/16-buss large frame console. Also, receivers, cassette decks, and CD players.

See full listing under **Magnetic Tape Systems & Supplies**

Telex Communications, Inc., Audio/Visual Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5531

President: John Howe

Sales Manager: Jerry Hines

Sales Manager: John Serio

Director of Marketing: Dan Paulnock

Products: 16mm film projectors, 35mm slide projectors, 35mm filmstrip projectors, cassette tape copiers, reel-to-reel tape copiers, headsets, language labs;

MAGNABYTE™ computer-to-overhead-projector adaptor.

TOA Electronics, Inc., 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Touch Technologies, Inc., 363 Adelaide St. E., Toronto, Ontario, M5A 1N3, 416-865-1877

President: W. R. Snelgrove

Director of Engineering: P. Giddings

Director of Mkt'g/Com.: A. Hardman

Products: audio and control systems for distribution and recording of legislature proceedings, routing and level of sound effects for live theatre, and audio/visual controllers for dark rides, exhibits and displays.

Utah Scientific, Inc., 1685 W. 2200 S., Salt Lake City, UT, 84119, 801-973-6840, 800-453-8782

President: Jerald C. Murphy

V.P. Operations: Earl G. Gray

V.P. Engineering: Ben VanBentham

V.P. Special Products: Dale Buzan

Nat'l. Sales Mgr.: C. Gary LaMunyan

Products: a full line of audio and video routing switchers, master control and automation systems, and audio and video distribution amplifiers.

Dan Antonellis, Metuchen, NJ, 201-494-1019

Lyle Bailey, Canoga Park, CA, 818-704-5601

Tom Harmon, North Royalton, OH, 216-237-9642

Eric S. King, Lynchburg, VA, 804-384-7001

Vansan, 16735 E. Johnson Dr., City of Industry, CA, 91745, 818-961-7211

Products: handcrafted lecterns equipped with a light, digital clock and self-contained PA system, plus Lectrajust® electric height control.

WHAT TO LOOK FOR WHEN YOU LISTEN TO A POWER AMPLIFIER.

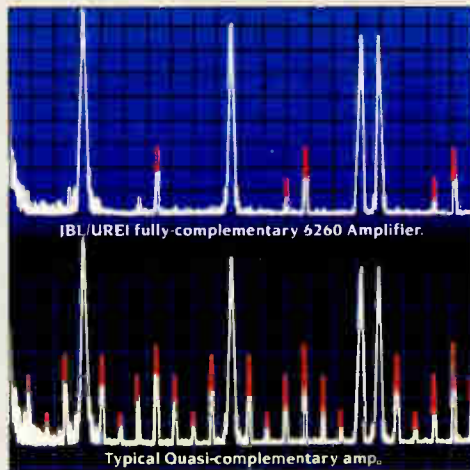
When it comes to evaluating amplified sound, seeing is believing.

In fact, when engineers judge the sound quality of an amplifier, they often rely on *two* precision instruments: the human ear, and the industry-standard Transient Intermodulation Distortion Test, because when measuring sound with T.I.M. what you see is what you get.

And what you see can be eye-opening. Amplifiers that seem to square off evenly spec. for spec., often perform very differently under the scrutiny of T.I.M. Pushed to their limits, many produce brittle, edgy or distorted sound especially during high frequency passages and sharp transients.

Many manufacturers deal with distortion by using massive amounts of feedback through a single overall feedback loop, placing greater demands on the amplifier and producing an inferior sound.

When we built our new JBL/UREI Amplifiers, we committed ourselves to designing the industry's purest-



Red spikes in the TIM Spectrum reveal the dramatic differences in distortion output.

sounding amps that would not only score highest marks on the T.I.M. Test, but deliver the truest amplified sound ever heard.

Instead of sloppily force-feeding massive amounts of

output signal back into input stages, and congesting it all into one circuit loop, we've established operating points at *each* gain stage. This allows signal purity to be maintained along the entire circuit. And permits optimized use of the type and amount of feedback for each individual gain stage.

In a simple analogy, the new JBL/UREI Amplifiers do each signal track right the first time, so that you don't have to fix it in the mix. The result is sound far cleaner than typical quasi-complementary and fully-complementary output stages only. And far more pleasing to the ear.

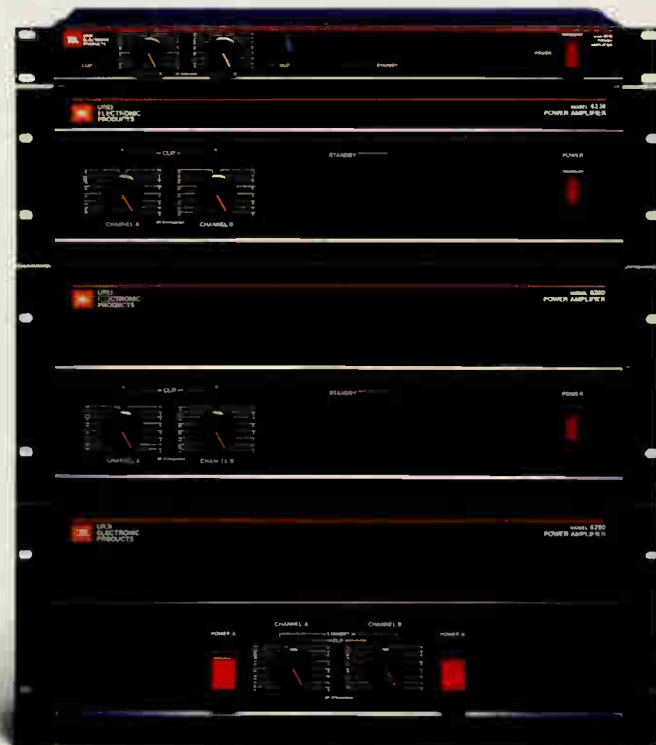
Put JBL/UREI's remarkable new Amplifiers to the test at your local JBL/UREI dealer today. We're confident you'll think it's the finest amplified sound you've ever heard. Or seen.

For an informative Technical Paper on the unique design philosophy behind the new JBL/UREI Amplifiers, please write to:

JBL Professional
8500 Balboa Boulevard
Northridge, CA 91329

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BACK/FOREGROUND SYSTEMS & LIBRARIES

Boston Acoustics

Anchor Audio Inc., 913 West 223rd St, Torrance, CA,
90502, 213-533-5984

President: Jim Van Waay

National Sales Manager: Jon Peirson

Products: portable sound systems and accessories, lec-
turns, as well as powered speaker systems for foreground
and background applications.

See full listing under **Portable Sound Systems**



Argos Products Co., 600 S. Sycamore St., Genoa, IL,
60135, 815-784-5118

President: Donald C. MacLaughlin

Sales, V.P.: Ronald Evers

Credit Manager: Rosella Johnson

Chief Engineer: Loren Schrader

Products: indoor /outdoor Sound Columns, packaged
sound systems, Portable PA systems, Sound powered
lecturns, background & foreground speakers, baf-
fle/speaker combinations, baffles & enclosures.

See full listing under **Loudspeakers**

Audio Environments, Inc (AEI), 900 E. Pine St., Seattle,
WA, 98122, 206-329-1400

Vice President: Jack D. Craig

Reg. Mgr. Dealer Sales: Denny Thompson

Reg. Mgr. Dealer Sales: Jeff Yircott

Products: AEI ProPac 4 commercial cassette system fea-
tures a rugged cassette player with a drive transport mech-
anism designed to last ten times longer than conventional
cassette decks. AEI commercial cassettes provide four
hours of uninterrupted original artist programming on pure
chrome tape that has superior fidelity and is virtually
maintenance-free. The ProPac 4 is the most dramatic
breakthrough in playback technology in the last 15 years.

District Offices:

AEI, Chicago, IL, 312-337-7737

AEI, Cincinnati, OH, 513-772-2021

AEI, Los Angeles, CA, 213-651-1260

AEI, Orange, CA, 714-998-6880

AEI, New York, NY, 212-431-6655

Benjamin International, Inc., 1460 Old Country Road,
Plainview, NY, 11803, 516-753-0700

President: Joseph N. Benjamin

Vice President: Charles Tanner

Products: background music equipment including cas-
sette and CD changers, bulk tape erasers and professional
tape splicers.

BGM international, P.O. Box 8057, Pensacola, FL, 32505,
904-434-1953

Products: background music programs for SCA, central
studio telephone, CATV, on premise; general, up-tempo,
beautiful music; associated studio equipment also avail-
able.

Boston Acoustics, 247 Lynnfield St., Peabody, MA,
01960, 617-532-2111

Chairman of the Board: Frank Reed

President: Andy Petite

Director of Mkt'g: Richard Frank

Sales Manager: Fred Pinkerton

Products: Boston Acoustics Designer Series high fidelity
loudspeakers can be used as main or extension speakers
in the home and commercial spaces. They mount flush in
new or existing walls or ceilings and can be painted.

See full listing under **Loudspeakers**

Bozak, Inc., 326 South St, New Britain, CT, 06051-3721,
203-225-0555

President: Donald D. Bowers

Dir. of Marketing: William J. Kieltyka

Chief Engineer: Sheldon Glick

Products: foreground speaker systems and professional
speakers.

See full listing under **Disco Components & Systems**

Casco/MTN Sound, P.O. Box 115, 50 Terminal St.,
Charlestown, MA, 02129, 617-242-2983

President: Samuel J. Blengs

Products: on-premise 4-track/4-channel player with auto
switching, continuous-loop tape cartridge with built-in
head, 18-20 hours continuous music. All categories, spe-
cializing in international and ethnic music.

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-
962-6009

Products: a full line of paging products.

See full listing under **Paging Systems**

EMS/Music, 2264 15th Ave. W., Seattle, WA, 98119, 206-
281-8686

V.P. Nat'l. Music Svc. Sales: Bernard Kron

Nat'l. Dealer Sales Desk: Mark Rubin

Steve Ducharme

Anne Walker

Products: digitally mastered foreground/background mu-
sic, complete music service, tape cartridge players, mes-
sage insertion systems, Current-Drive Amplifiers for trans-
formerless distributed speaker systems. Automated mixer
system that permits segues with various music services.

Harris Corporation, Dragon Division, 809 Calle Plano,
Camarillo, CA, 93010, 805-987-9511

V.P. Gen'l. Mgr.: John R. Mason

Dir., Domestic Sales: Tom Erdmann

Chief Engineer: Tom Durston

V.P. Sales & Mkt'g.: Jack McGuigan

Products: PAGEPAC telephone integrated loudspeaker
paging voice systems, linemen's test sets, craft tools, ex-
tensive line of relay racks.

See full listing under **Paging Systems**

International Satellite Systems, 104 Constitution Dr. #4,
Menlo Park, CA, 94025, 415-853-0833

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

Johnson Electronics, Inc., 4301 Metric Drive, PO Box 4728, Winter Park, FL, 32793, 305-677-4030

Chairman of the Board: Ralph Weber

President: Al Schell

V. P./Engineering: Ken St. John

Dir. Mkt'g/Sales: Mel Kelch

Products: SCA tuners/receivers for music, voice, data and emergency broadcast systems. Also audio amplifiers, mixers, Rx antenna systems and computerized display equipment. See full listing under **Audio Amplifiers**

Magne-Tronics, Inc., 93 Broad St., Matawan, NJ, 07747, 201-566-9600

President: John Bolenz

Vice President: Gloria Bolenz

Products: subscription service featuring many formats of taped music programs for background music services via FM, SCA, phone lines, on premise and cable.

MG Electronics, 32 Ranick Rd., Hauppauge, NY, 11788, 516-582-3400, FAX: 516-582-3229

President: Louis Maltz

Vice President: Elliott Maltz

Sales Manager: Stan Grey

Products: commercial sound and security speakers, paging horns, electronic sirens, general replacement speakers, OEM speakers (custom design available), foreground music speaker systems, and toggle switches.

See full listing under **Loudspeakers**

Music Programming, Inc., 265 Concord St., Framingham, MA, 01701, 617-875-3530

President: Raymond J. Regis

Vice President: Dutch L. Blue

Products: three music programs for central studio, cable and satellite systems: STARLINE (background); LITE 'N EASY (mid-ground); E/Z ROCK (foreground).

Muzak, 915 Yale Ave. N., 3rd Flr., Seattle, WA, 98109, 206-682-3737, 800-331-3340

President: Mark Torrence

Senior V.P. Sales/Marketing: Tom Evans

V.P. Finance: Phil Jordan

Dir. of Programming: Bruce Funkhauser

V.P. Operations: Ken Cross

Products: foreground and background music service delivered via satellite or taped service using several different tape formats.

Oaktron Industries, Inc., 1000 30th St., Monroe, WI, 53566, 800-257-4538

President/CEO: Jerry Disch

Executive V. P.: Bob Taller

V. P. Sales: Jim Hendrickson

Products: commercial loudspeakers and accessories, sound masking speakers. Background and paging sys-

tems and a total line of accessories.

See full listing under **Loudspeakers**

Quam-Nichols Co., 234 E. Marquette Rd., Chicago, IL, 60637, 312-488-5800

President: W.G. Little

Distributor Sales Mgr.: G.L. Johns

Chief Engineer: Oswald Rohrbacher

Products: loudspeakers, ceiling baffles, line matching transformers and back box enclosures for background music, public address system and other commercial sound applications, and attenuators.

District Offices:

Chuck Olson Assoc., Renton, WA

Given-Flanagan Assoc., W. Boylston, MA

R.E. Breuer Co., Pt. Washington, NY

Cartwright & Bean of Georgia, Atlanta, GA

The Lewis & Dunnigan Co., Inc., Syracuse, NY

Mandabach-Lehner Co., Columbus, OH

McBride Loudspeaker Source, Inc., Waterloo, Ont., CD

Foster Technical Sales Co., Edina, MN

Robert Milsk Co., Southfield, MI

Brian Trankle & Assoc., Belmont, CA

Bidwell Sales Assoc., Gardena, CA

J.Y. Schoonmaker Co., Inc., Dallas, TX

Ken Levy & Assoc., Chicago, IL

Lowery Assoc., Broomall, PA

R.W. Kunz & Assoc., Prairie Village, KS

Revere Industries, 1101 Bienville St., New Orleans, LA, 70112, 504-523-3503, 800-843-8321, FAX: 504-525-6361

V.P. Sales: Lori Kanelos

Director of Marketing: Richard Harris

Products: sound and fire alarm system and components.

Rowe International, Inc., 75 Troy Hills Road, Whippany, NJ 07981, 201-887-0400

Sales Manager: Beverly LaForte

Products: Custom music Programasters in 3 modes with accessories. Customusic® programs: two 60-hour libraries with refresher program every 120 days.

Atmosphere—commercial and one 24-hour library with refresher program every 30 days, foreground.

SCA Data Systems, 3000 Ocean Park #3002, Santa Monica, CA, 90405, 213-452-2506

Dir. of Sales/Mkt'g.: Robert W. Peters

Products: multi-channel S.C.A. generator and receiver; all equipment capable of 50 to 10,000 KHZ frequency response with two channels being placed on a single subcarrier. Music 4 system also capable of 0 to 1800 band on a single 5 KHZ channel.

Seeburg Corp., 1105 Westwood Avenue, Addison, IL, 60101, 312-543-1270

Seeburg Music Satellite Network, 5706 New Chapel Rd., Raleigh, NC, 27607, 919-851-5823, 800-334-1561

General Manager: William E. Fox

Mgr., Aff. Rel.: Sherrill R. Williams, Sr.

National Sales Cdr.: Bonnie Sullivan

Products: background and foreground music for all commercial applications delivered via satellite direct.

Seven Systems, Inc., 2602 Artie St., Huntsville, AL, 35805, 205-533-2193

Products: background music equipment.

Sight & Sound Entertainment, 915 Yale Ave. N., Suite 100, Seattle, WA, 98109, 206-343-0111

SMC International, Inc., 2505 N. 24th St., Ste. 501, Omaha, NE, 68110, 402-453-0332

Chief Opt'g. Ofc'r.: Jay B. McMartin

Dir. of Engineering: Richard L. Dircks

Products: FM/SCA products, commercial sound products, satellite receiving products and telephone test equipment.

See full listing under **Audio Amplifiers**

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN, 55144-1000, 612-733-0447

Marketing Manager: Don Rada

Sales Manager: Don Sluder

Products: music libraries for all purposes. Reliable players. Industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems. Microphones, amplifiers and other sound system components.

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

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V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60-W PA amp with AM/FM & auto reverse cassette, 45-W PA tuner/amp; complete line of PA amps;

complete line of 8" speakers w/Xformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor,

back/foreground enclosed speakers w/25/70V Xformers;

high-tech ceiling grille, columns, & a full line of PA horns, L-

pads, multitesters & oscilloscopes, megaphones, attenua-

tors, microphones, & intercoms.

See full listing under **Audio Amplifiers**

Tape-Athon Corp., 13633 Crenshaw Blvd., Hawthorne, CA, 90250, 213-676-6752

President: Leon E. "Lee" Tate

General Manager: Bob Haller

Director Engineering: Bernie Sayers

Director Finance/Mkt'g: John Bagley

Sales Manager: Rick Bottom

Products: reel-to-reel, cassette environmental on-site music systems, rack mount or portable. Chimes & carillon systems, messenger insertion units, full amplifier line.

Customized background/foreground libraries.

District Offices:

Chuck Olson Assoc., Renton, WA, 206-271-5416

Warren Assoc., Santa Clara, CA, 408-988-7762

Greg Dzubay & Assoc., Peoria, AZ, 602-979-2358

Spivey-Leboeuf Assoc., Richardson, TX, 214-231-3190

Central Marketing Group, Kansas City, MO, 816-741-7460

John E. M. Anderson, Minneapolis, MN, 612-823-6459

Gustafson System Sales, Palatine, IL, 312-358-2505

Avcom, Inc., N. Olmsted, OH, 216-777-2060

Elmarcon, Inc., Indianapolis, IN, 317-846-0221

Saga, Oswego, NY, 315-343-5739

Pinz Sales Corp., Rockville Centre, NY, 516-678-6887

ASR Enterprises, LTD., Fallston, MD, 301-893-0001

Murphy & Cota, Atlanta, GA, 404-875-2525

Bencsik Assoc., Ocala, FL, 904-732-9775

Design Factors, La Habra Heights, CA, 213-697-7576

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

Vice President: Bill Hooper

Controller: Cal Weddle

Products: Engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Yesco Foreground Music, 915 Yale Ave. N., Seattle, WA, 98109, 206-682-3737, 800-426-9248

Products: full service audio and video company.

Foreground and background music programs nationally distributed, playback units (amplified and non amplified) on premise and central studio formats.

Your one-stop source for Music Systems

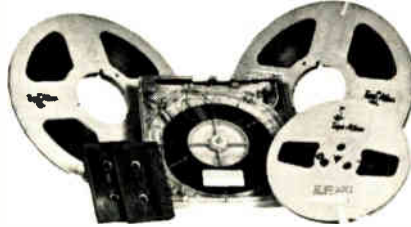
• STEREO • FOREGROUND • BACKGROUND • BROADCAST • NARRATION

Tape-Athon offers a complete line of Audio-Systems for any application you can name. We've added new Electronic and Mechanical designs to all our equipment to make the best even better; solid-state electronics; ball bearing capstan assemblies; improved clutch mechanisms to mention a few, along with the Worlds Largest Environmental Music Library Need details, facts, or prices?

Literature will be on its way the same day we receive your request. Or for even faster turn around, call our Sales Department, at (213) 676-6752

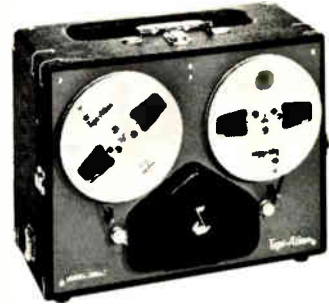


The Messenger III System is designed for inserting messages in a Environmental Music System for use in Supermarkets, Department Stores, Mass Merchansisers, and others wanting point point of purchase advertising.

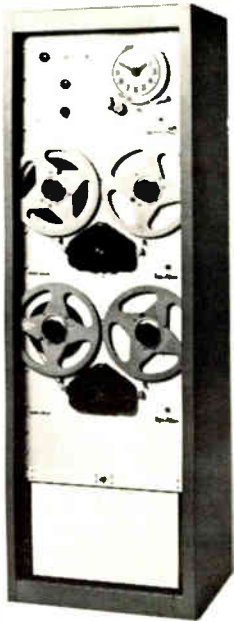


Why Tape-Athon Environmental Music? Because Tape-Athon, alone, offers the finest, most complete systems and formats, custom-fitted to your needs!

The Tape-Athon Library is the largest of its kind in the World as a source medium. From this vast Library, our "Musicologists" painstakingly create a Master Program that is an artistic, psychological, and scientific blend of the best Environmental Music in the World!



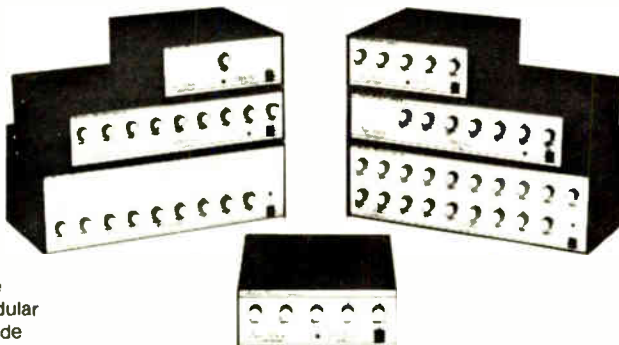
The 702, a Reel-to-Reel Type Tape Playback Unit, the standard of the Industry, for Environmental Music and Narrative applications. A truly high reliable system, it is in use at over 100,000 locations. Also available in a rack mounted and a stereo version.



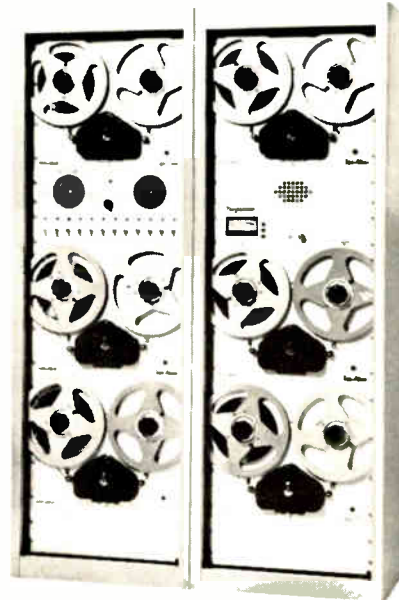
Electronic Tower Chimes are tape transport systems supplied in modular or rack-mounted versions to provide hour strike, followed by an interval of carillon music two, three, or four times per day. Ideal for banks, churches, schools, and similar institutions, Tape-Athon Chimes are a proven builder of good-will and community relations.



The Cassette Music System is ideal for on-location music in Offices, Retail Stores, Restaurants, or any location where music can assist in providing a atmosphere. Uses convenient tape cassettes from Tape-Athon's extensive library.



The complete line of Audio-Master Amplifiers are designed for Paging, Speech Reproduction and especially music. Unique design allows inputs to be field changed without costly plug-in modules, whether microphones, tape head, phono, tuner, telephone lines or auxiliary.



The Programmer for S.C.A. or Wire Operation Background Music Centers. It offers an integral "Time of Day" and sequencing control of 3 programs with a multitude of pre-selected music tempos eliminating repetition.

Tape-Athon manufactures more than a dozen varieties of Multi-Transport Inter-Mix Systems.

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World Radio History

CABINETS, FURNITURE, CASES, & RACKS

Aarmor Case Co., 2100 Lapo Road, Lake Odessa, MI,
48849, 616-374-5431

President: Steven J. Catlin

Products: "Rack Pod" molded electronics racks, "Trans Pod" molded keyboard and accessory cases. Aarmor case ATA heavy duty flight cases, Series-2 medium heavy duty cases and Series-3 medium light duty cases, for all electronic, lighting, audio/visual and musical equipment. Also custom cases.

Amco Engineering Co., 3801 Rose St., Schiller Park, IL,
60648, 312-671-6670

Products: modular closure systems

Anvil Cases, Inc, 4128 Temple City Blvd., Rosemead, CA,
91770, 818-575-8614

Products: Anvil manufactures heavy duty and light duty cases and containers for the sound and communications market.

District Offices:

Anvil Cases, Inc., Rosemead, CA, 818-575-8614

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026,
314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: equipment cabinets, upright racks, consoles and enclosure systems for commercial sound, studio and pro audio systems, telecommunications, electronic and industrial products. Standard models for cost-efficiency.

Modified standard for functional flexibility, custom design for specialized requirements. Complete selection of decorative accessories and application-oriented hardware.

See full listing under **Loudspeakers**

Bretford Mfg. Co., Inc., 9715 Soreng Ave., Schiller Park,
IL, 60176

Bud Industries Inc., 4605 E. 355th St, Willoughby, OH,
44094, 216-946-3200

Cabtron Systems Inc., 200 Anets Dr., Northbrook, IL,
60062, 312-498-6090

Calzone Case Company, 225 Black Rock Ave., Bridgeport,
CT, 06605, 203-367-5766

Cases Inc., 1745 W. 134th St., Gardena, CA, 90249, 818-
575-8614

CTS Corp./Metal Products Group, State Road 16 West,
Monon, IN, 47959, 219-253-6666, 800-558-7297

General Manager: Joe Rogers

Sales Manager: Kirk Kirilin

Sales: Duane Nagel

Sales: Jim Mann

Sales: Angie Minix

Products: standard, modified standard, & custom electronic enclosures, cabinets, chassis, & racks. Modular Vertical Enclosures: 19" vertical racks, Moduline: all-aluminum rectangular instrument chassis, Modubox: aluminum sloped front, keyboard, and rectangular styled enclosures.

District Offices:

E.B. King & Assoc., Saratoga, CA, 408-867-2111

Lessing Assoc., Newhall, CA, 805-254-0274

Brainard-Wiwon Mkt'g, Arlington Hts., IL, 312-437-2700

Schmitt Industrial Mktg, W. Hempstead, NY, 516-486-3510

CompRep Systems, Nashua, NH, 603-883-1212

Diversified Case Co., 34 Main Street, Whitesboro, NY,
13492, 315-736-3028

Products: specialty cases for all uses, standard and custom molded, plastic, aluminum, wood and soft.

District Offices:

ABS Technologies, Islip, NY, 516-277-7101

Abbott Allison Company, Branford, CT, 203-481-0405

Liebel & Merle Sales, Rochester, NY, 716-385-3961

Pantech, Inc., Springfield, VA, 703-451-5700

PMC Packaging Co., Warrington, PA, 215-628-0560

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL,
60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

See full listing under **Portable Sound Systems**

EAR/Caraway Audio, 1775 Old Country Road, Suite 19,
Belmont, CA, 94002, 415-594-1790

Products: speaker cabinets and sound reinforcements.

Eastboard Consoles, 2200 Richmond St., Philadelphia,
PA, 19125, 215-425-3121

Products: custom work stations for video, audio, and computer electronics; consoles, editing stations, cabinetry, etc., are all precision-crafted with birch plywood, laminates, and hardwoods.

El Mar Plastics, Inc., 821 E. Artesia Blvd., Carson, CA,
90746, 213-327-3180

Products: plastic items, audio cassette cases and reels.

Electro Space Fabricators, P.O. Box 67, Topton, PA,
19562-0067, 215-682-7181

Electrorack Products Co., 1443 S. Sunkist St., Anaheim,
CA, 92806, 714-776-5420

President: Yvonne Rumbles

Secretary/Treasurer: Wayne Rumbles

Operations Manager: Ken Seidel

Sales Manager: Mike Deming

V.P. Engineering: Allen Benson

Products: high quality custom and standard electronic cabinets, racks, computer consoles and related acces-

sories for electronics, aerospace and government programs.

District Offices:

Intersell, Burlington, MA, 617-273-3844

Interconnect Sales Group, Santa Clara, CA, 408-980-1166

Spectra Sales Corp., Richardson, TX 214-234-3600

REMCO, Huntsville, AL, 205-533-3763

Beams Company, Des Moines, IA, 515-255-1148

ELMA Electronic Inc., 41440 Christy St., Fremont, CA, 94538, 415-656-3400

Products: enclosures, VME bus systems, backplanes, power supplies, rotary & DIP switches, collet safety knobs, LED arrays, test & switch sockets, plugs, cabinets, and DIN-connectors.

District Offices:

S.K. MacDonald, Inc., Lisbon, MD, 301-982-1088

F.F./Hill-Gray, Inc., Elmhurst, IL, 312-832-4101

Bell Controls, Inc., Nashua, NH, 603-882-6984

Harold Gray Assoc., Englewood, NJ, 201-894-0894

Impact Electronics, Inc., Anaheim, CA, 714-533-1351

EMCOR Products/Crenlo, Inc., 1600 Fouth Ave. NW, Rochester, MN, 55901, 507-289-3371

Sales Manager: John Horton

Products: modular electronic enclosure systems, computer support furniture, chassis slides, instrument cases, EMI/RFI Emission Control cabinets and Instant EMCOR-quick ship program.

Equipto Electronics Corp., 351 Woodlawn Ave., Aurora, IL, 60506, 312-897-4691

Sound & Communications is not just a magazine, it's an industry.

Sound & Communications

editorial staff, contributing and technical editors are driving the marketplace and covering the burning issues in all areas related to professionals and sound installation design and system maintenance.

Sound & Communications

is the magazine for contracting professionals. Reporting on new trends and technologies, regular topics include:

- Theories and Applications
- Installation Profiles
- Editorials
- Industry News and Convention Calendar
- Business and Marketing
- Product Test Reports
- New Product News/
Close-ups

Sound & Communications

is written, designed, edited and published to meet the needs of qualified professionals in the sound, security and telephone industry.

"RACK POD"™

by

Aarmor Case



The "RACK POD" designs by Aarmor Case are the cumulative result of over three years of research and design done originally for four separate military projects. Together these projects concentrated on the major concerns associated with container design, structural integrity, minimum weight, shock attenuation, environmental exposure, adaptability to various load weights and gravity centers, secure nesting ability, and COST. Combining the best solutions to these design concerns has yielded the "RACK POD". The "RACK POD" is the LEAST EXPENSIVE, STRUCTURALLY STRONGEST, and LIGHTEST WEIGHT mobile electronics rack available.

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Aarmor Case

2100 Lapo Rd., Lake Odessa, Mi. 48849

World Radio Inc. 616-374-5651, 616-374-5431

Director of Sales/Mkt'g: Kent Jarnig
Products: electronic cabinets, vertical racks, sloped front consoles, work stations, instrument cabinets, EMI/RFI shielding for FCC and military requirements.

Flight Form Cases, Inc., 13102 Stone Ave. N., Seattle, WA, 98133, 206-365-5210
President: Dale J. Lorang
Vice President: Glenn Stenson
Sales & Design: Don Cole
Products: reusable shipping cases providing protection for your equipment which are designed to withstand the hazards of travel and shipping.
District Offices:
Bob Bryan & Assoc., Ft. Worth, TX, 817-237-5603
Chuck Stieff & Assoc., Platteville, CO, 303-587-2500
Double Edge Audio, Haverhill, MA, 617-372-5526
Northwest Sales Firm, Tacoma, WA, 206-759-9995
Texas Pro Reps, Ft. Worth, TX, 817-847-0625

General Devices Co., Inc., 1410 S. Post Rd. P.O. Box 39100, Indianapolis, IN, 46239, 317-897-7000, FAX: 317-898-2917
President: Gladys K. Fall
Secretary/Treasurer: Mary E. Davis
V. P. Manufacturing: Ed Hansen
Nat'l Sales Mgr.: Jack Bradford
Marketing: Ronald Stalze
Products: manufacturers of electronic hardware including commercial cabinets, shielded enclosures, solid bearing chassis slides, ball bearing slides, cooling modules, card cages, chassis, cabinet-mount shelves and more.

Great American Market, 826 N. Cole Ave., Hollywood, CA, 90038, 213-461-0200, FAX: 213-461-4308
General Manager: Joseph N. Tawil
Sales Manager: Mofid Bissada
Operations Manager: Jeffrey C. Lind
Products: Excalibur Cases are manufactured for a wide range of equipment, from wireless microphones to large communications systems. They meet or exceed A.T.A. specifications for construction. Standard or custom cases for all equipment.
District Offices:
Light America, New York, NY, 212-260-7860
WD Marketing, Silver Spring, MD, 301-585-5311

Impart, Inc., 2225 4th Ave., Seattle, WA, 98121, 206-728-0184, 800-544-3343
General Mgr: Steven Corey
Mkt'g Director: Peter Sherwin
Sales Manager: Laird Laabs
Office Manager: Michelle Helmacy
Products: tv/monitor wall and ceiling brackets manufactured by Lucasey. New modular system allows you to interchange locking and non-locking units. Adjustable platforms to fit your set exactly.

Jan-Al Cases, 4452 E. Washington Blvd., Los Angeles, CA, 90023, 213-669-0550, 260-7212
Owner: Jan Michael Alevandro
Owner: Miriam "Muffie" Alevandro
Sales Manager: Todd Morgan
Office Manager: Magi Lujan
Plant Manager: Bill Prentice
Products: custom and standard reusable shipping cases,

ATA road and flight cases, rack mount cases, shock mount racks, also "Pro Rack" knock-down rack cabinets.
District Offices:
C. L. Pugh & Assoc., Cleveland, OH, 216-238-1777
Sherwood Assoc., Endicott, NY, 607-785-1590
Rep Tech, Inc., Terrell, TX, 214-222-2131
Evans Sales/Mkt'g, Nashville, TN, 615-297-7997
Ludwig Mkt'g, Kenosha, WI, 414-697-9355
Lex Lawson Assoc., Coarland, TX, 214-272-8482
Metropolis Audio Mkt'g, Edison, NJ, 201-225-0085
New Resource, Norwell, MA, 617-659-1463
Prorepro, Foster City, CA, 415-570-5055
R. J. Mkt'g Ltd, Rockville, MD, 301-251-0330
Hustrinco Enterprises, Reddington Beach, FL, 818-393-8982

Parsons Mfg. Corp., 1055 O'Brien Dr., Menlo Park, CA, 94025-1476, 415-324-4726
President: A.R. Parsons
Vice President: C.E. Plummer
Products: cases, foam padded for equipment to sales demo, airline travel and shipping; travel carts and customized packaging.
District Offices:
Thermopak, Philadelphia, PA, 215-742-0447
Instrument Dynamics, Boston, MA, 617-245-5100
Tremby Assoc., Albuquerque, NM, 505-266-8616
Teplitz Assoc., Cleveland, OH, 216-439-3265
Brennan Assoc., Clearwater, FL, 216-439-3265

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Sgueglia
Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365
Prod Mgr/Sound Reinf.: Hollis Calvert
Prod Mgr/Digital Product: Ken Valentine
Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.
See full listing under **Pro Audio Sound Systems & Products**

Premier Metal Products Co., 381 Canal Pl., Bronx, NY, 10451, 212-993-9200
President: Stanley F. Kwasnicki
Sales Manager: Anthony E. Bozza
Design Engineer: Frank Sonanno
Products: cabinets, racks, cases, chassis, panel fans, slides, and blowers for the electronics industry. Modified standards and special designs are manufactured on order.

District Offices:
Premier Metal Products, Fontana, CA, 714-829-3089

Research Technology International, 4700 W. Chase Ave.,
Lincolnwood, IL, 60646, 312-677-3000

President: Ray L. Short, Jr.

V.P. Sales: Thomas Tisch

V.P. Sales: Thomas Boyle

Chief Financial Officer: Rick Peterson

Advertising Manager: Sherwin Berger

Products: Video/Film Care Products including inspection
and cleaning machines, accessories, storage racks, and
film reels and cans.

See full listing under **A-Visual Equipment/Systems**

Roadrunner Cases, 1745 W. 134 St., Gardena, CA,
90249, 213-770-4444

President: Howard Chatt

Sales: Tony Castillo

Sales: Carlos Nieto

Products: cases for all products in many different styles for
shipping, carrying, and storage.

Skydyne, 21 River Road, Port Jervis, NY, 12771, 914-856-
6655, 800-428-CASE

Sales/Mkt'g Manager: M. Timney

Products: protective transit and operational cases and
containers; design development and manufacture in fiber-
glass, aluminum, aluminum composite and ABS materials.

Solid Support Industries, 2453 Chico St., South El Monte,
CA, 91733, 818-579-6063

Sales Manager: Richard Wilson

Products: 19" open frame racks, mixing console stands,
computer workstations & keyboard stands. All constructed
of 1 1/4" steel square wall tubing.

Star Case, 648 Superior, Munster, IN, 46321, 219-922-
4440, 800-822-STAR

President: Dennis Toma

Vice President: Bernard Fryman

Dir. of Manufacturing: Roger Hallberg

Products: four lines of reusable shipping containers fea-
turing Ultra-Star, heavy-duty flight cases, Super Star pre-
mium flight cases, ATA Star ATA flight cases, and Carry
Star surface travel cases.

District Offices:

Audio Resources, Westmont, IL, 312-655-1180

John B. Anthony Co., Stamford, CT, 203-322-9202

Aim Marketing, Mishawaka, IN, 219-256-2025

RJ Throckmorton, Glencoe, MO, 314-227-7222

Jones Audio Sales, Plano, TX, 214-867-0202

Teclab, 310 Perkstok Road, Kalamazoo, MI, 49001, 800-
832-5227

President: J. Draves

Sales Manager: B. Smith

Customer Service: J. Savan

Products: technical workstations, lab benches, and com-
plete lab furniture systems.

Thermodyne International Ltd., 20850 S. Alameda Street,
Long Beach, CA, 90810, 213-603-1976

Products: custom cases.

Ultimate Support Systems, Inc., 2506 Zurich Dr., Fort
Collins, Co, 80522, 303-493-4488

Marketing Manager: Thomas B. Kellenberger

National Sales Manager: Glen Snider

Account Executive: Tom Clagett

Account Executive: Preston Glaude

Account Executive: Monica Kadillac

Products: superior quality support structures for musical
and sound reinforcement equipment with a full line from
tripods and portable tables to keyboard stands and micro-
phone stands. All products are constructed of lightweight
aluminum and glass-reinforced polycarbonate fittings,
making them lightweight, yet strong enough to support
heavy equipment.

Viking Cases, 10480 Oak St. NE, St. Petersburg, FL,
33716, 813-577-1216, 800-237-8560

President: Art Stemler

Vice President: William Strickland

Products: ATA shipping cases and carrylite, carry cases for
video, musical and sound reinforcement.

Winsted Corp., 9801 James Circle, Minneapolis, MN,
55431, 612-888-1957

V.P. Marketing: Jerry Hoska

Sales & Marketing: Randy R. Smith

Customer Service: Judy Ruzek

Products: rack cabinets, stands, computer tables, tape
storage cabinets, and AV cabinets.

Wyle Laboratories/Electronic Enclosures Division, 6995
Airport Highway Ln., Dept. M, Pennsauken, NJ, 08109,
609-665-6810, FAX: 609-665-6810

Vice President: T. F. Keller

Sales Manager: Ron Pache

Products: metal cabinets and consoles for sound and
telecommunications equipment. All accessories including
shelves, fans, plexiglass doors, blowers and A/C strips are
offered. Design service available.

District Offices:

Electronic Enclosures, El Segundo, CA, 213-643-8181

Imagitron Sales, Upperco, MD, 301-374-5600

Zieco Inc., Lexington, MA, 617-861-8300

Zonk & Assoc., Richardson, TX, 214-238-7651

Carlson & Assoc., Campbell, CA, 408-370-1284

Zero-West Div., 777 Front St., Burbank, CA, 91503, 818-
846-4191

President: B. Wood

V.P. Sales: D. Griffith

V.P. Manufacturing: J. Frickel

Engineering Mgr.: P. Johnson

Controller: S. Holt

Products: electronic cabinets, enclosures, drawn boxes,
military and commercial containers, sheet metal fabrication,
slides, and blowers.

District Offices:

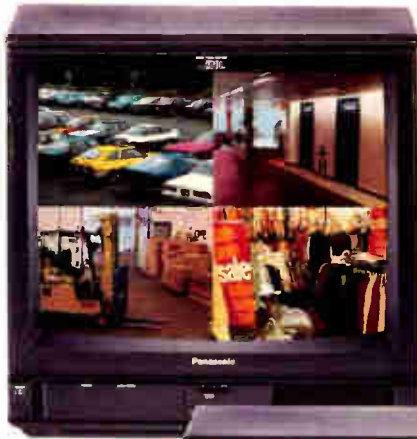
N. Calif. Office, San Jose, CA, 408-435-1113

McKinley Sales, San Diego, CA, 619-271-7221

RTS, Inc., Vashon, WA, 206-285-1363

Cadon Technical Sales, St. Louis, MO, 314-645-8670

THE PANASONIC QUAD SYSTEM CAN MAKE ANY CCTV SYSTEM FOUR TIMES BETTER. IN COLOR OR BLACK AND WHITE.



The Panasonic® WJ-450 Quad System. It will make any CCTV system better because it lets you watch four camera locations simultaneously on one monitor. No matter what kind of monitors or cameras you have: black and white, color, or both.

Still, there's more to the WJ-450 than turning one monitor into four. Take its alphanumeric character generator. Each camera location can be instantly identified by using up to six characters. That's important.

You can even stop the action in any of the four "blocks" thanks to the WJ-450's digital processor. And freeze-framing can mean a lot when it comes to making a clean ID.

So can a time-lapse VCR. In fact, when connected to an alarm-activated time-lapse VCR, the WJ-450 will not only record the four Quad "blocks," it will automatically go to the full-screen mode and display the location where the sensor has been tripped.

There's also a remote-control function for selecting quad mode, camera channel and still picture.

The Panasonic WJ-450. It's the one quad system that can make any CCTV system four times better.

Panasonic

Closed Circuit Video Equipment

For more information, contact your nearest Panasonic Industrial Company Closed Circuit Video Equipment dealer or call your nearest regional office. Northeast: (201) 348-7303; Midwest: (312) 981-4826; Southeast: (404) 925-6835; Southwest: (214) 580-0518; West: (714) 895-7265.

Circle 231 on Reader Response Card



Color Quad System WJ-450
Monitor pictures simulated.

CCTV/VIDEO COMPONENTS & SYSTEMS

American Fibertek, Inc, 1662 63rd St., Brooklyn, NY,
11204-2713, 718-236-3739

President: Robert Klein

Vice President: Jim McLaughlin

Vice President: Jack Krol

Products: fiberoptic CCTV & data transmission systems, modules and sub-rack mounted slide-in cards. Fiberoptic cables including general purpose, plenum, aerial, and burial. Termination and splice tool kits, reusable SMA optical connectors, power test meter and light source, and power supplies.

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026,
314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: enclosures, enclosure mounts, mounting adapters, sunshields, blowers and heaters for CCTV cameras. Cabinets, racks, consoles and accessories for engineered CCTV and video systems, security and surveillance applications.

See full listing under **Loudspeakers**

Audio/Video Supply Inc., 4674 Cardin St., Ste. D, San
Diego, CA, 92111, 619-565-1101

President: R.T. Moore

Products: industrial and professional video equipment.

AVA Electronics & Machine Co., 4000 Bridge St., Drexel
Hill, PA, 19026, 215-284-2500

V. P. Sales/Mkt'g: Michael Shore

District Mgr.: Mike Ward

OEM Mgr.: William McKinley

Products: RF connectors, special connector designs, adapters, baluns.

Blonder-Tongue Laboratories, Inc, 1 Jake Brown Rd., Old
Bridge, NJ, 08857, 201-679-4000.

Chairman of the Board: I. S. Blonder

President: B. H. Tongue

Sr. Vice President: D. J. Altieri

Vice President: G. H. Tongue

Vice President: A. J. Bruno

Products: SMATV/MATV signal distribution headends and equipment. A/V modulators, channel converters, amplifiers, filters. CCTV A/V signal distribution equipment. TVRO antennas, receivers, LNA's.

District Offices:

W. H. Hendrickson Co., N. Scituate, MA, 617-545-0652

LCA Sales Inc., Tuckahoe, NY, 914-961-4700

Adams & Assoc., Greensboro, NC., 919-272-6838

EESCO, Inc., Los Angeles, CA, 818-242-8823

George Pettitt Co., Berkeley, IL, 312-449-3443

Catel Telecommunications, Inc., 4050 Technology Plaza,
Fremont, CA, 94537, 415-659-8988, 800-225-4046

President: Dr. James Hood

Director of Sales: Wendell Woody

Product Manager: Dennis Donnelly

Products: multichannel FM processing equipment for video, audio and digital data transmission over fiber optic or coaxial cable, microwave, satellite or IR links.

District Offices:

North Kansas City, MO

Coherent Communications Inc., 13756 Glenoaks Blvd.,
Sylmar, CA, 91342, 818-362-9393

President: I. Kruglak

Vice President: S. DeFeo

Service Manager: P. Spinelli

Sales App. Engineer: H. Howard

Products: SMPTE-Time code products, portable audio mixer, wireless microphones, miniature-portable video transmitters.

Cohu Inc., Electronics Div., P.O. Box 85623, San Diego,
CA, 92138, 619-277-6700

Products: closed circuit TV.

Crest Electronics, Inc., 4921 Exposition Blvd., Los
Angeles, CA, 90016, 213-731-1105

Chairman & CEO: Irv Rossman

President: Hope Borows

V.P. Mkt'g.: Dennis Castelli

Products: closed circuit TV products, video cameras, video monitors, time lapse recorders, quad & split screen systems, switchers, scanners, lenses, housings, mounting hardware, pan & tilt, time date generator, video sender, video controls & amps.

District Offices:

Crest Electronics, Inc., Greensboro, NC, 919-288-2787

Irv Brown Co., Brooklyn, NY, 718-493-1379

Forti Assoc., Kensington, MD, 301-949-1706

Wm. Linz Assoc., Deerfield, IL, 312-945-9600

Pacnor Mkt'g., W. Lynwood, WA, 206-771-5576

Dynair Electronics, Inc., 5275 Market St., San Diego, CA,
92114, 619-263-7711, 800-854-2831

President: E. G. Gramman

V. P. Marketing: D. Castellini

Systems Mkt'g Manager: R. A. Jacobs

V. P. Engineering: T. R. Meyer

Mgr. Mkt'g Communications: P. L. Lynch

Products: video and audio switching and distribution systems with automation interface: passive switchers; microwave IF switching systems video and audio accessories special purpose equipment for broadcast educational industrial and closed-circuit TV systems.

District Offices:

Robert McAll, New York, 516-966-8000

Al Wilson, California, 619-541-0859

Vern Pearson, Illinois, 800-255-2255 ext 8874

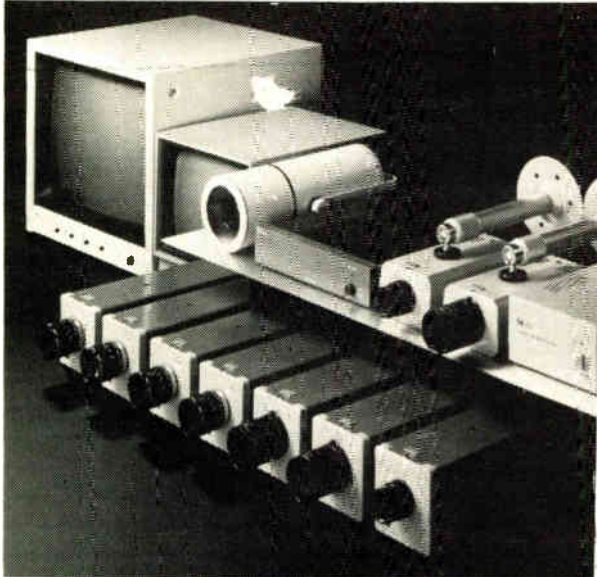
E.R.L. Electronic Products, Inc., 65-50 Austin St., Rego
Park, NY, 11374, 718-275-7700

Products: aptment house intercoms, MATV systems, closed circuit television accessories.

Elbex America, 20360 S. Leapwood Ave., Unit F, Carson,
CA, 90746, 213-515-0854, 800-421-5206



Security Group



Advanced Toa technology, and a system approach to video observation equipment are your guarantee of optimally effective remote surveillance. The Toa - Security Group equipment comes in a full line-up that covers every need and situation. We offer versatile, sophisticated, and reliable video cameras; monitors; switching, distributing, and remote control units; as well as a complete selection of support accessories. Toa - Security Group video systems have all you need for video observation with the best that technology can offer.

Contact: Toa - Security Group for your nearest representative.

Toa Electronics, Inc.

480 Carlton Court
South San Francisco, California 94080
Telephone: (415) 588-2538

Vice President: Harry Rosenblatt
Sales Administrator: Ken J. Gien
Sales Orders: Edith Gutierrez
Tech. Engineer: Mohammad H. Bigdeli
Products: full range of quality CCTV equipment, cameras with built-in auto-iris lens, universal mounts/outdoor housings in one economic package, complete video interphone systems for single or multi-story dwelling, mobile camera and monitor systems for R. V.'s, campers, etc.

District Offices:

Graystone Systems Inc., Blauvelt, NY, 914-353-0600
Jayso Elect. Corp., Bronx, NY, 212-798-1050
Exec. Sec. Inc., Nashville, TN, 615-331-6700
Broadway Exec. Sec., Kansas City, MO, 816-474-1771
Wagners S.P.D., Anaheim, CA, 714-630-6671
Alarm Center, San Diego, CA, 619-571-3535
American General Dist. Corp., Miami, FL, 305-649-5408
Arizona Lock and Safe, Phoenix, AZ, 602-278-4582
Audio/Video, San Diego, CA, 619-565-1101
Cartland Alarm & Comm., S. Federal Way, WA, 206-839-8433
Futura, Lomita, CA, 213-539-1710
Row & Sons, Fort Myers, FL, 813-481-2949
Save on Video, N. Hollywood, CA, 213-875-1235
Vision Video, Los Gatos, CA, 408-356-1286

Electrohome Ltd., 809 Wellington St. N., Kitchener, ONT, N2G 4J6, 519-744-7111

Products: large screen projection systems and display monitors.

EMI, Inc., 11411 Bradley Ave., Pacoima, CA, 91331, 818-896-6700, 800-628-5858, FAX: 818-899-1599

President: Joel Gary Rutberg
Secretary/Treasurer: Eilleen Rutberg
National Marketing Mgr.: Michael Moll
Dir. of Accounting: Debra Cota
Plant Coordinator: Andy Culp

Products: CCTV support equipment including housings, mounts, indoor and outdoor enclosures, environmental camera enclosures, and precision custom sheet metal fabrication. Complete line of "chip" housings and mounts accommodates solid-state cameras, "Specialty" line of detention/security housings for jailhouses & holding cells.

GBC Closed Circuit TV Corp., 315 Hudson St., New York, NY, 10013, 212-989-4433, 800-422-2288

Board Chairman: Harry Lefkowitz

President: Steve Lefkowitz

Sales Manager: Gary Perlin

Export Manager: Sydelle Ranzman

Products: complete line of closed circuit TV cameras, monitors and accessories including products for business and home use. Solid state CCD cameras, low light level and star light cameras, RF cameras for use on home TV sets.

District Offices:

GBC CCTV Corp., New York, NY, 212-989-4433
GBC CCTV Washington Corp., Washington, D. C., 202-882-6131



Graystone Systems Ltd., Bradley Corp. Pk, 300 Corp. Dr.,
Ste #5, Blauvelt, NY, 10913, 914-353-0600, 800-952-
9528, FAX: 914-353-0657

President: Ruben F. Graystone

V.P. Engineering: Steve Shaki

Sales Manager: Christopher LoCascio

Products: manufacturer of intercom equipment and dis-
tributors of closed circuit television equipment for homes,
condos, and industry. Suppliers of residential and com-
mercial selective call video intercom systems. Specializing
in intercommunications for computer room application.

Exclusive east coast distributor of ELBEX AMERICA.

See full listing under **Intercom Apartment/Residential**

Hedco, P.O. Box 1985, Grass Valley, CA, 95945, 916-
273-9524

Sales Manager: Ross Shelton

Products: Video and audio distribution amplifiers, Video
and audio routing switchers, NTSC Source Sync Pulse
Generators.

Hirschmann of America, P.O. Box 229, Industrial Row,
Riverdale, NJ, 07457, 201-835-5002, 800-225-0524

Sales Manager: Andy Swenson

Products: Visonik "David" family of monitor mini-speakers,

Hirschmann fiber optical transmission systems for audio,
video and data up to 4 miles.

See full listing under **Loudspeakers**

Ikegami Electronics (USA), 37 Brook Ave., Maywood, NJ,
07607, 201-368-9171

Intec Video Systems, 23132 La Cadena, Laguna Hills, CA,
92653, 714-859-3800

ISS Engineering, Inc., 104 Constitution Dr., #4, Menlo
Park, CA, 94025, 800-227-6288

V.P. Mkt'g.: Lydia Gillaspie

V.P. Sales: John Coiro

Products: CATV audio video frequency agile modulators,
demodulators, satellite receivers, for background music,
data, LAN, CCTV. Family of products includes proprietary
technology of PC satellite receivers and VHF/UHF demods
that plug in and are controlled by a personal computer, the
units are trademarked PC-SAT.

District Offices:

ISS Engineering East, Birmingham, AL, 800-351-4477

JBL Professional, 8500 Balboa Blvd., Northridge, CA,
91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

Market Manager Sound Contracting: Steve Romeo

Products: high quality loudspeakers and loudspeaker sys-

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tems of all kinds: automatic microphone mixer: electronic crossover: special loudspeakers for musical instruments: video projector.

See full listing under **Loudspeakers**

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

Javelin Electronics, 19831 Magellan Dr., Torrance, CA, 90502, 213-327-7440

Products: complete CCTV security systems including cameras, monitors, video tape recorders, lenses, cable, pan/tilts, video signal equipment and other accessories. Also, night viewing equipment.

JVC Co. of America, 41 Slater Drive, Elmwood Park, NJ, 07407, 201-794-3900

Kloss Video Corp., 42 Fourth Avenue, Waltham, MA, 02254, 617-890-1245, 800-556-7733

Koyo International Inc. of America, 325 Marcus Blvd., Hauppauge, NY, 11788, 516-434-8484, 800-645-9818

Products: camera monitors.



Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: Enterview™ combination audio/visual intercom and door control systems for private homes, commercial applications and multi-unit housing. Sony authorized CCTV distributor.

See full listing under **Intercom Apartment/Residential**

Lightwave Communications, Inc., 650 Danbury Road, Ridgefield, CT, 06877, 203-438-3591

Products: fiber optic audio and video links.

Math Associates Inc., 2200 Shames Dr., Westbury, NY, 11590, 516-334-6800

President: Ellen Math

V. P. Sales/Mkt'g: Robert Delia

Products: complete source of fiber optic systems for video, audio, data & control.

MFJ Enterprises, Inc., 921 Louisville Road, Starkville, MS, 39759, 601-323-5869, 800-647-1800

Mikrolab Video Inc., 4121 Redwood Avenue, Suite 215, Los Angeles, CA, 90066, 213-306-0120

MPO Videotronics Inc., 619 West 54th Street, New York, NY, 10019, 212-708-0550

Products: integrated video units, VCR/monitor.

Multiplex Technology, Inc., 251 Imperial Hwy, Fullerton, CA, 92635, 714-680-5848, 800-423-0584

National Sales Manager: Frank White

Products: custom residential video and commercial private cable accessories, including ChannelPlus brand video multiplexers, ChannelPlus brand distribution amplifiers, and ChannelPlus brand Gen-Lock message generators.

NEC America Inc., 4936 Rosecrans Ave., Hawthorne, CA, 90250, 213-973-2071

Northern Information Technology, 750 West Algonquin Road, Arlington Heights, IL, 60005, 312-640-3220, 800-528-4343

Numark Electronics, 503 Newfield Ave., Edison, NJ, 08837, 201-225-3222

President: Harry Kotovsky

Vice President: Robert Kotovsky

National Sales Mgr.: Richard Krochmal

Technical/Serv. Manager: Rick Kamlet

National Sales Manager: Dewitt Smith

Products: professional music mixers, turntables, equalizers, mobile DJ systems, speaker systems, professional audio/video digital mixers, and a complete line of audio accessories.

See full listing under **Disco Components & Systems**

Panasonic Ind. Co., CCTV Div., One Panasonic Way, Secaucus, NJ, 07094, 201-392-6688

Gen. Mgr.: Milton A. Landau

Nat'l. SAles Mgr.: Joseph O. Goetz

Tech Support Mgr.: Robert Klein

Products: complete line of CCTV products including time-lapse recorders, cameras, monitors, and complementing accessories.

District Offices:

Reg. Sales Office N.E., Secaucus, NJ, 201-348-7303

Reg. Sales Office S.E., Norcross, GA, 404-925-6835

Reg. Sales Office M.W., Arlington Hts., IL, 312-981-4826

Reg. Sales Office S.W., Irving, TX, 214-580-0518

Reg. Sales Office W., Cypress, CA, 714-895-7265

Quickset International, Inc., 3650 Woodhead Drive, Northbrook, IL, 60062, 312-498-0700, 800-247-6563
Products: tripods, camera housing, & common tilts.

Racon, Inc., 12628 Interurban Ave. South, Seattle, WA, 98168-3383, 206-241-1110, 800-426-5245

President: Daniel Blattman

National Sales Manager: David Babbitt

Video Sales Manager: Don Bolen

V. P. Sales/Mkt'g: Robert Kirkaldie

V. P. Operations: Steven Critchlow

Products: the micropass system from Racon is designed for cable free transmissions of voice, data or video up to fif-

teen miles. Utilizing 23GHz microwave capabilities, microwave systems are simple to install and use.

District Offices:

Col-Ins-Co, Orlando, FL, 305-423-7615

Hite Electronics, Mansfield, TX, 817-483-7077

SEA, Inc., Carmel, IN, 317-846-2591

SAC Communications, Vienna, VA, 703-281-2558

DGH Communications, Scarborough, ON, 416-499-4746

RCA, New Products Division (Closed-Circuit Video Equipment), New Holland Ave., Lancaster, PA, 17604-3140, 717-295-6123

Products: RCA Closed-circuit video equipment is a manufacturer and distributor of a complete line of CCTV components, systems, and support services. The RCA CCVE product lines include: CCTV cameras, monitors, video recorders, switchers, control systems, and a full line of video accessories to complete CCTV systems.

Robot Research, Inc., 7591 Convoy Court, San Diego, CA, 92111, 619-279-9430, 800-854-2057

Runco Video Corp., 1163 Chess Dr., Suite J, Foster City, CA, 94404, 415-349-7459

Sanyo Electric, Inc., 1200 West Artesia Boulevard, Compton, CA, 90224, 213-537-5830

Sharp Electronics Corp., 10 Keystone Pl. P.O. Box 588, Paramus, NJ, 07652

Surveillance Video Systems, 258 "A" St., P.O. Box 1349, Ashland, OR, 97520, 503-482-4500

President: Bud Wilkey

Products: state of the art "dummy" cameras in scanning, stationary and battery models manufactured in the USA. Also, live CCTV cameras and systems.

TOA Electronics, Inc.—Security Group, 480 Carlton Ct. S., San Francisco, CA, 94080, 415-588-2538

Products: Video observation systems including video cameras, monitors, switchers, remote control equipment, rack mounting equipment, and video camera equipment. See full listing under **Alarm & Security**

Usatco (Universal Satellite Corp.), 300 E. 59th St., New York, NY, 10022, 718-786-1510

Products: videomate large screen video and data projectors, computer interfaces.

VCS (Visual Communications Specialists), 8586 Miramar Place, San Diego, CA, 92121, 619-455-7252

Products: camera/video coax control, switching system.

Vicon Industries, 525 Broad Hollow Rd., Melville, NY, 11747, 516-293-2200, 800-645-9116

President: Donald N. Horn

Executive V. P.: Arthur Wallace

V. P. Finance: Kenneth Darby

V. P. Corp. Com.: Frances McArdle

National Sales Mgr.: Dar Hyatt

Products: tube-type and CCD video cameras, a full line of lenses, monitors, mounting accessories, remote positioning devices, VCRs, consoles and desk-top systems. The company's products are used in a variety of surveillance, security, safety, and control applications, in robotics, banks, gaming casinos, traffic control, hospitals, retailing, multiple commercial and industrial installations, etc.

District Offices:

Vicon Industries, Norcross, GA, 404-449-0499

Vicon Industries, River Forest, IL, 312-848-5100

Vicon Industries, San Jose, CA, 408-297-0377

Vicon Industries, Brea, CA, 714-990-3858

Vicon Industries, Dallas, TX, 214-631-0887

Video Accessory Corp., 2450 Central Avenue, Boulder, CO, 80301, 303-443-1319, 800-821-0426

Videoplex Inc., 2 World's Fair Dr., Somerset, NJ, 08873, 201-469-9038

President: Martin Horak

Executive V. P.: Gerald Kalb

Chief Engineer: Bruce Fogelstrum

Products: video multiplexers capable of displaying, taping or transmitting up to 16 non-synchronous video feeds, in color or black & white, to one monitor one VCR, or one videopath.

Vidicraft Inc., 0704 SW Bancroft Street, Portland, OR, 97201, 503-223-4884, 800-547-1491

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CARILLONS & CHIMES

Schulmerich Carillons, Inc., Carillon Hill, Sellersville, PA, 18960, 215-257-2771

Marketing Secretary: Sally E. Mandes

Products: bellwrights since 1935, Schulmerich Carillons, Inc. manufactures cast bronze bells, carillons, glockenspiels, clock towers, standard or custom design free-standing towers, electromechanical/digital keyboard carillon instruments.

Tape-Athon Corp., 13633 Crenshaw Blvd., Hawthorne, CA, 90250, 213-676-6752

President: Leon E. "Lee" Tate

General Manager: Bob Haller

Director Engineering: Bernie Sayers

Director Finance/Mkt'g: John Bagley

Sales Manager: Rick Bottom

Products: reel-to-reel, cassette environmental on-site music systems, rack mount or portable. Chimes & carillon systems, messenger insertion units, full amplifier line.

Customized background/foreground libraries.

See full listing under **Back/Foreground Systems Libraries**

Mgr./Pro Products: David Bell

E. Reg. Sales Mgr.: Tim Dorwart

Nat'l Technical Rep.: Bruce Myers

Mkt'g Dev. Specialist: Mark Mayfield

Products: professional loudspeaker systems for portable and installed applications including sound reinforcement, commercial sound, background/foreground music, cinema sound. Modeler™ computer software for sound system design assistance.

See full listing under **Pro Audio Sound Systems & Products**

Bozak, Inc., 326 South St, New Britain, CT, 06051-3721, 203-225-0555

President: Donald D. Bowers

Dir. of Marketing: William J. Kieltyka

Chief Engineer: Sheldon Glick

Products: foreground speaker systems and professional speakers.

Cerwin-Vega, 555 E. East St., Simi Valley, CA, 93065, 805-584-9332, TLX:662250

President: Gene Czerwinski

Sales Manager: Rich Mandella

Chief Engineer: Marshall Buck, Ph.D

Products: electronic and acoustic systems for domestic and auto sound systems; MI, sound reinforcement, motion picture, broadcast, recording, and commercial sound products.

See full listing under **Loudspeakers**

DISCO COMPONENTS & SYSTEMS

ASHLY

Ashly Audio, Inc., 100 Fernwood Ave., Rochester, NY, 14621, 716-544-5191

President: William Thompson

V.P. Sales/Mkt'g.: Robert French

V.P. Finance/Export Accts.: David Malloy

Products: MOS-FET power amplifiers, graphic equalizers, noise gates, limiter/compressors, electronic crossovers, parametric equalizers, notch filters, and OEM products.

See full listing under **Pro Audio Sound Systems & Products**

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Ch'mn. of the Board: John C. McLaren

V.P.: Scott Anderson

Nat'l. Sales Mgr.: Jim Lucas

Operations Mgr.: Jennifer Drescher

Products: audio signal processors.

See full listing under **Audio Signal Processors**

Bose Corp, The Mountain, Framingham, MA, 01701, 617-879-7330

Community Light & Sound, Inc., 333 E 5th St., Chester, PA, 19013, 215-876-3400

President: Bruce Howze

V. P. of Engineering: John Wiggins

Vice President: Christine Howze

Director of Mkt'g: John Strand

Products: sound reinforcement loudspeakers for background, foreground and paging. Two, three, & four way loudspeakers systems for use in churches, schools, nite-clubs, restaurants, and portable live applications. Pattern Control horns, midrange compression loudspeakers and components for engineered sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Eastern Acoustics Works, 59 Fountain St., Framingham, MA, 01701, 617-620-1478

President: Kenneth Berger

V.P. Engineering: Kenton Forsythe

V.P. Marketing: Frank Loyko

Sales Administrator: Daniel McDonald

Other Personnel: Max Berger

Products: precision-crafted professional loudspeaker products including full-range systems, bass and mid-bass horns, drivers, and studio monitor systems.

See full listing under **Loudspeakers**

Eden Electronics, Inc., 1st St., PO Box 338, Montrose, MN, 55363, 612-675-3650

President: David D. Nordschow

Products: pro audio sound systems including constant directivity horns and mid-bass devices; small to large 2-way, 3-way, and 4-way systems for PA and music play-back;

touring systems; stage monitors; passive crossovers; custom enclosures.

See full listing under **Pro Audio Sound Systems & Products**

Maas-Rowe Carillons, 2255 Meyers Ave, Escondido, CA, 92025, 619-743-1311

McCauley Sound, Inc., 13608 94th Ave. E., Puyallup, WA, 98373, 206-848-0363

Pres./Sales Mgr.: Tom McCauley

V.P./Production: Pete McCauley

Products: a complete line of touring and commercial loudspeaker systems. They feature a high powered series of low-, mid-, and high-frequency loudspeakers and compression drivers, as well as CD horns, passive networks, and enclosure hardware.

See full listing under **Pro Audio Sound Systems & Products**

Numark Electronics, 503 Newfield Ave., Edison, NJ, 08837, 201-225-3222

President: Harry Kotovsky

Vice President: Robert Kotovsky

National Sales Mgr.: Richard Krochmal

Technical/Serv. Manager: Rick Kamlet

National Sales Manager: Dewitt Smith

Products: professional music mixers, turntables, equalizers, mobile DJ systems, speaker systems, professional audio/video digital mixers, and a complete line of audio accessories.

District Offices:

Numark/PPD, Simi Valley, CA, 805-522-3550

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sguelgia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365

Prod Mgr/Sound Reinf.: Hollis Calvert

Prod Mgr/Digital Product: Ken Valentine

Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.

See full listing under **Pro Audio Sound Systems & Products**

Rane Corp., 6510 216th S.W., Mountlake Terrace, WA, 98043, 206-774-7309

V.P. Marketing: Larry Winter

Dir. Tech. Dev.: Terry Pennington

Products: graphic and parametric equalizers, real-time analyzers, headphone amps, active crossovers, program mixers, splitters, compressor/limiters.

See full listing under **Audio Signal Processors**

Rocronics Entertainment Lighting & Special Effects, Inc. 100-SAC Rocronics Park, Pembroke, MA, 02359, 617-826-8888

President: Dr. Richard Iacobucci

Products: dimmers, spotlights, rotating lights, laserlight shows, foggers, strobes, bubbles, video projectors, panchromatic animated displays, music-into-color & motion, line lights, holograms, 3D & prismatic sheeting, etc. 100 page catalog and 4 hr. videotape.

District Offices:

500 dealers worldwide

Stanton Magnetics Inc., 200 Terminal Dr., Plainview, NY, 11803, 516-349-0235

President: Walter O. Stanton

V. P. of Mkt'g: Joseph S. Woodstock

Professional Sales Mgr.: Pete Bidwell

Products: turntable broadcast/disco magnetic cartridges, replacement styli, professional headphones, announcer's earphones, turntable slip mats, turntable preamp/equalizer, record care products.

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Turbosound, Inc, 611 Broadway, #841, New York, NY, 10012, 212-460-9940

President: Alan Wick

V. P. Sales/Mkt'g: Dan Abelson

V. P. Operations: Hilary Michener

Products: Turbosound loudspeaker enclosures utilize patented principles to provide the installer pre-engineered loudspeaker systems complete with certified rigging hardware designed for ease of install and safety.

See full listing under **Loudspeakers**

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

Mkt'g. Mgr. Sound Contracting: Steve Romeo

Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.

See full listing under **Audio Signal Processors**

HARDWARE & TOOLS

CAE, Inc., (Littlite), 10087 Industrial Drive, Hamburg, MI, 48139, 313-231-9373
President: Jim Fackert
Sales Manager: Fred Mikeska
Marketing Manager: Barb Burns
Products: Littlite gooseneck lamps and accessories and worklamps for audio mixers, duplicating machines, synthesizers, and work panels.]

D. J. Associates, Inc., 8411 S. Zero, Unit 5, Ft. Smith, AR, 72903, 501-452-3987
President: I. Jean Beck
Vice President: Michael P. Beck
Secretary/Treasurer: I. Jean Beck
Products: cable clamps, pigtails, solderless terminals, Cable and wire ties. We specialize in small quantities. Mil spec parts available.

Harris Corporation, Dracon Division, 809 Calle Plano, Camarillo, CA, 93010, 805-987-9511
V.P. Gen'l. Mgr.: John R. Mason
Dir., Domestic Sales: Tom Erdmann
Chief Engineer: Tom Durston
V.P. Sales & Mkt'g.: Jack McGuigan
Products: PAGEPAC telephone integrated loudspeaker paging voice systems, linemen's test sets, craft tools, extensive line of relay racks.
See full listing under **Paging Systems**

Jensen Tools, Inc., 7815 S. 46th St., Phoenix, AZ, 85044, 602-968-6241
President/Gen. Mgr.: Arnold Schwartz
Sales Manager: Herb Oberman
Prod. Engineer Mgr.: Sherman Jensen
Products: electronic tools, tool kits, test equipment for service, maintenance and repair of electronics, telecommunications, and computer equipment.
See full listing under **Test Equipment & Tools**

Labor Saving Devices, 815 Benton St., Lakewood, CO, 80214, 303-232-6341
President: Roy Bowling
Sec'y.: Kathy Bowling
Products: specialty tools for running wire, pulling wire, fishing wire in finished homes and/or commercial buildings. Unique tools designed to save time and professionalize any installer who runs wire.

Lowell Manufacturing Co., 3030 Laclede Sta. Road, St. Louis, MO, 63143, 314-781-9058, 800-325-9660
Chairman: Ben W. Lowell
President: Dorothy H. Lowell
Sales Manager: John J. Lowell

Sales: Wilhelm R. Lowell
Engineering: Karl R. Schneider
Products: loudspeakers, baffles, enclosures, mounting devices, attenuators, UL 8" speaker assemblies, sound masking speakers, blank and custom rack panels, custom fabrication services.
See full listing under **Loudspeaker Accessories**

Miller-Stephenson Chemical Co. Inc., P.O. Box 950, Danbury, CT, 06813, 203-743-4447

Music Supply Co., Inc., 809 N. Madison, Dallas, TX, 75208
214-946-8450, 800-527-1522
President: W. E. Brown
Sales: Betty Brown
Products: installation and service aids for the sound contractor and background music operator.

Neutrik/DIALIGHT Corp., 1913 Atlantic Ave., Manasquan, NJ, 08753, 201-223-9400
Product Mgr.: James Cowan
Dir. of Sales/Mkt'g.: John McNamara
CEO: H. Miller
Products: an extensive line of XLR connectors, receptacles, transformers, goosenecks, modules, patch plugs, phone jack/plugs. Included in the line are weatherproof XLR connectors, a new speaker connector, and "Neutricon" a new miniature connector system.
See full listing under **Wire/Cable Components**

Omnimount Systems, 10850 Van Owen St., N. Hollywood, CA, 91605, 818-766-9000, FAX: 818-766-9669, TELEX: 181149 WEST LSA
President: Alex Cyrell
Sales Manager: Jim Schaller
Vice President: Susan Michelson
Products: universal mounting assemblies for hanging speaker, monitors or other products, full product line supports a broad spectrum of weight loads, from ounces to hundreds of pounds, with flexibility and stability at any angle.
See full listing under **Loudspeaker Accessories**

Paladin Corp., 3543 Old Conejo Road, Suite #102, Newbury Park, CA, 91320, 805-499-0318

Panduit Corp., 17301 Ridgeland Ave., Tinley Park, IL, 60477, 312-532-1800
National Sales Manager: Paul Trunk
Product Mgr./Wiring Duct: Tom Orton
Products: one and two piece, adhesive-backed surface raceway system for data, security and communication systems. Available in 3 sizes and five decorator colors. Full range of fittings and accessories also available.
District Offices:
Panduit Corp., Tinley Park, IL, 312-532-1800

Penn Fabrication NJ, Inc., Box 356, 29B Ethel Ave., Hawthorne, NJ, 07506, 201-423-4404
Products: flight-case and speaker cabinet hardware, con-

nectors and electrical fittings, microphone stands, and acoustical foam.

Seal-O-Matic Co., 900 Passaic Ave., East Newark, NJ, 07029, 201-481-6500

Selco Products Co., 7580 Stage Rd., Buena Park, CA, 90621, 714-521-8673
General Manager: Bill Wilkinson
Product Manager: Diane Duquette
Product Manager: Celeste Martinez
Regional Manager: Bill Keneipp
Products: control collet and push-on knobs are available in different sizes from 10 mm-38 mm diameters. They are constructed in a matte finish nylon. Caps, pointers, nut covers, and dials are available in several different colors.
District Offices:
HMC, Inc., Arcadia, CA, 818-447-0958
Pass Assoc., Sunnyvale, CA, 408-735-9040
Dolan Assoc., Watchung, NJ, 201-753-2671
Crawford Assoc., Andover, MA, 617-470-2122
Parcom, Elk Grove, IL, 312-228-6360

Tek Trak International, Highway 165, Box 431, Voluntown, CT, 06384, 203-376-0433
President: Michael Panasuk
Products: an exclusive source of every type of hardware

and accessory required for cabinet and case construction, including speakers, horns, crossovers, mixers and power amplifiers for installations and repair.

District Offices:

East Coast Lighting & Sound, Wyckoff, NJ, 201-652-7641
Sound Marketing, Palos Heights, IL, 312-448-6715
Sturgill Assoc., Columbia, MD, 301-995-1578

Texwipe, 650 E. Crescent Avenue, Upper Saddle River, NJ, 07458, 201-327-9100

Vaco Products Co., 1510 Skokie Blvd., Northbrook, IL, 60062, 312-564-3300.

Waldom Electronics, 4301 West 69th Street, Chicago, IL, 60629, 312-585-1212

Yale Audio of Florida Corp., P.O. Box 2661, Tampa, FL, 33601, 813-876-6789
President: Y. Brevda
Sales Manager: David Kentwood
Products: position markers for knobs, switches, push buttons, etc. on amplifiers and control panels, self-adhesive vinyl, miniature designs of various controls in different switching positions.

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HEADPHONES & HEADSETS

Accusonics Systems Corp., 2101 Jericho Turnpike, New Hyde Park, NY, 11040, 516-328-3300

General Manager: Dennis Goodman

Products: severe environment headsets, microphones, and loudspeakers.

See full listing under **Loudspeakers**

ACS Communications, 250 Technology Circle, Scotts Valley, CA, 95066, 408-438-3833 (in CA), 800-538-0742

President: Al Butcher

Executive V.P.: Phil Gattely

V.P. Sales: Kurt Siem

V.P. Consumer: George Poston

Products: pioneer line of ultra-light wireband and contour (over-the-ear) telephone headsets, the newest model is the MicroSet™, a minicontour weighing less than 1/5 oz.; units available with connectors compatible with virtually any telephone made today; TeleTret II™ designed specifically for the business user in mind.

See full listing under **Telephone System Peripherals**

AKG Acoustics, Inc, 77 Selleck St, Stamford, CT, 06902, 203-348-2121

President: Richard Ravich

Operations Manager: Derek Pilkington

Sales Manager: David Talbot

Service Manager: John T. Pырch

Products: studio condenser microphones; prepolarized condenser microphones; professional dynamic microphones; wireless microphones, special purpose microphones, stereo microphones; headset microphones; stereo headphones; microphone stands; digital delays; digital reverbs; phonocartridges; and accessories.

See full listing under **Microphones**

Audiosears Corp, 2 South ST., Stamford, NY, 12167, 607-652-7305

Beyer Dynamic, Inc, 5-05 Burns Ave, Hicksville, NY, 11801, 516-935-8000

General Manager: Paul Murphy

Marketing Manager: Bob Lowig

Marketing Manager: Mike Solomon

Products: dynamic and condenser microphone, professional headphones and headsets, wireless microphones, microphone stands and booms, sound contracting components and accessories.

See full listing under **Microphones**

Danavox Inc./Telecommunications Div., 6400 Flying Cloud Dr., Minneapolis, MN, 55344, 612-941-0690

David Clark Co., Inc., 360 Franklin St. Box 155, Worcester, MA, 01613-0155, 617-756-6216

Product Mgr. Comm.: George R. Conlon

Products: portable and fixed communication systems featuring noise attenuating (reducing) headsets for use in high noise areas. VOX systems for portable radios with throat microphones, headsets and adapters for use with mobile and portable radios.

District Offices:

Atlanta, GA, 404-461-2946

Chicago, IL, 312-657-7575

San Antonio, TX, 512-654-7568

Los Angeles, CA, 213-776-4571

Seattle, WA, 206-885-7431

Philadelphia, PA, 215-343-5334

Fostex Corp. of America, 15431 Blackburn Ave, Norwalk, CA, 90650, 213-921-1112

President: Y. Abe

V.P. General Manager: Fred Huang

V.P. Sales/Marketing: Mark Cohen

National Sales Manager: Mike Flynn

Products: a full-line for the Pro contractor including the MP Series multi-purpose powered mixers, SP & SPA11 portable speakers, raw frame speaker components from 18" to super tweeter, monitors, headphones, and microphones.

See full listing under **Pro Audio Sound Systems & Products**

Koss Corp., 4129 N. Port Washington Rd., Milwaukee, WI, 53212, 414-964-5000

CEO/Chairman/President: John C. Koss

Executive V.P.: Michael Koss

V.P. Marketing: Don Wagner

V.P. Sales: John C. Koss, Jr.

Sec./Corp. Legal Coun.: Michael Moore

Products: the Koss SST/10 stereophone has been designed for use with digital audio and video equipment. Product includes Koss Hold-a-Fone Stereophone holder for convenient storage.

Nady Systems, Inc., 1145 65th St., Oakland, CA, 94608, 415-652-2411

Sales Manager: Peter Kalmen

Products: wireless microphone systems, video camera, wireless system for ENG/EFP.

See full listing under **Microphones**

R-Columbia Products Co. Inc., 15 Huntington Avenue, New Bedford, MA, 02740, 617-994-4213

Products: headphones.

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119

President: Bob Ringer

V. P. Mkt'g: Douglas Leighton

Sales Manager: Shelley Harrison

Sales Engineer: Dave Richardson

Chief Engineer: Stan Hubler



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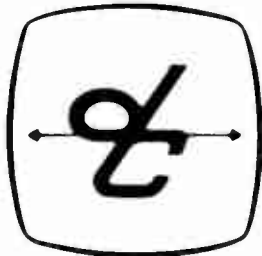


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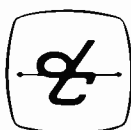
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370 Franklin St., Worcester, MA 01604
(617) 756-6216 Telex: 920482

Western Regional Office — Los Angeles, CA (213) 776-4571

Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems.
Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.

See full listing under **Intercom Duplex**

Sennheiser Elec. Corp., 48 W. 38th St., New York, NY, 10018, 212-944-9440

Products: a full line of microphones (dynamic, electret, and condenser) as well as RF (hand-held, body-pac, single channel, diversity/non-diversity, and rack-mount), infrared listening equipment, headphones and portable mixers.

See full listing under **Microphones**

Setcom Corp., 1400 Stierlin Rd., Mountain View, CA, 94043, 415-965-8020

Sales Manager: Steve Kilczewski

Products: headphones and headsets.

Sound Powered Communications Corp., 335 Robbins Ave., PO Box 5569, Trenton, NJ, 08638, 609-883-1180
Sales Manager: Harry Mosle

Products: sound-powered communications equipment including intercom stations, field telephones, handsets, noise-attenuating headsets, hook-up cable, reel systems, and accessories.

Tascam/TEAC Professional Division, 7733 Telegraph Road, Montebello, CA, 90640, 213-726-0303

Marketing Manager: Bill Mohrhoff

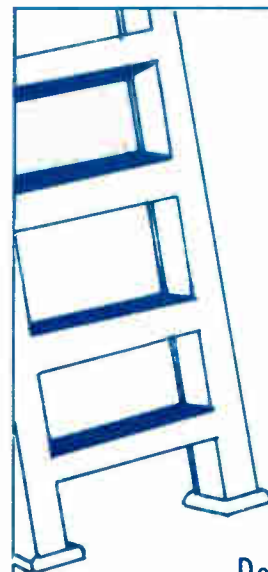
Sales Manager: Gregg Hildebrand

W. Reg. Manager: Fred Allard

S. Reg. Manager: Bill Stevens

E. Reg. Manager: Chuck Prada

Products: professional recorder/reproducers from 1/4" 2-track to the ATR-80, a new 2" 24-track designed for video production. Recording and performance consoles from 6-



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input to the M-600, a 32-input/16-buss large frame console. Also, receivers, cassette decks, and CD players. See full listing under **Magnetic Tape Systems & Supplies**

Technical Projects, Inc., 449 Princeton Ave., P.O. Box 1449, Barrington, IL, 60010, 312-381-5350, 800-562-5872

President: Glenn Mullis

Secretary/Treasurer: Sibbelina Mullis

Technician: Mike Barrett

Products: full-line wired production Intercom Systems for industrial, theatre, educational and sports. Plus "unique problem solving" devices. Also includes headsets for fast food drive-thru.

See full listing under **Intercom Production & Theatrical**

Telephone Components, Inc., 3180 Expressway Dr., S., Central Islip, NY, 11722, 516-582-4745

Products: telephone handsets, headsets, plugs, jacks and hardware.

See full listing under **Telephone System Replacement Parts**

Television Equipment Associates Inc., P.O. Box 393, Boway Road, So. Salem, NY, 10590, 914-763-8893

President: Bill Pegler

Manager: Steve Tocidlowski

Products: headsets and related products such as field telephone systems. Headsets for many applications such as intercom and broadcasting. T. E. A. provides many

options and accessories for their headsets including connectors for two-way radio and intercom systems. Other divisions supply video delay lines, video tape cleaners, video filters.

District Offices:

Television Equipment Assoc., Los Angeles, CA, 213-271-9570

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550

President: John Howe

Sales Manager/Microphones: Gary Fisher

Sales Manager/Intercom: Claude Kleiman

Director of Marketing: Donald Mereen

Products: single and dual muff monitor headphones, single and dual muff boom mic headsets for broadcast, communication, specialty, and intercom use.

See full listing under **Pro Audio Sound Systems & Products**

Yamaha International Corp., Audio Products Division, 6600 Orangethorpe Ave., Buena Park, CA, 90620, 714-522-9011

Gen. Mgr.: John Gatts

Nat'l. Sales Mgr.: Bob Shomaker

Adv. Mgr.: Robert T. Davis

Products: full line of audio mixing consoles, power amplifiers, speaker systems, digital signal processing equipment, and microphones.

See full listing under **Pro Audio Sound Systems & Products**

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Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Ch'mn. of the Board: John C. McLaren

V.P.: Scott Anderson

Nat'l. Sales Mgr.: Jim Lucas

Operations Mgr.: Jennifer Drescher

Products: audio signal processors.

See full listing under **Audio Signal Processors**

Communications Co., Inc, 3490 Noell St., San Diego, CA, 92110, 619-297-3261

Products: programmable two-way intercom amplifier w/vox., media distribution amplifier, projector patch, room combining systems, record patch, RT-60 reverberation measuring device, burst octave noise generator, 1/3 octave real time analyzer, 27 B.I.T. oscilloscope adapter, audio inductive loop receivers.

See full listing under **Intercom Institutional/School**

COMTEK

Comtek, Inc., 357 W. 2700 St., Salt Lake City, UT, 84115, 801-466-3463

President: Ralph Belgique

Application Engineer: Steve Kartchner

In-House Sales: LeeAnne Richards

Products: wireless microphone systems operating up to 216 MHz and RF assistive listening systems for the hearing impaired for use in auditoriums, churches and theaters, wireless tour guide systems, wireless intercom systems, and wireless cueing systems.

See full listing under **Microphones**

LPB Inc., 28 Bacton Hill Rd., Frazier, PA, 19355, 215-644-1123

President: Richard H. Crompton

Sales Manager: Charles J. Sheridan

Products: LPB Radio-Aide Systems provide hearing assistance through the use of unused commercial AM frequencies and standard AM pocket radios with headsets. Standard systems include 300' antenna. Additional lengths available.

District Offices:

Burden Assoc., Canoga Park, CA, 818-340-4590

Nady Systems, Inc., 1145 65th St., Oakland, CA, 94608, 415-652-2411

Sales Manager: Peter Kalmen

Products: wireless microphone systems, video camera, wireless system for ENG/EFP.

See full listing under **Microphones**

Oval Window Audio, 4 Collins Avenue, Yarmouth, ME, 04096, 207-846-6250

Products: assistive listening systems for the hearing impaired.

Phonic Ear Inc., 250 Camino Alto, Mill Valley, CA, 94941, 415-383-4000

President: James C. Mulford

Vice President: Richard Pimentel

Products: wireless microphone and FM assistive listening systems for the hearing-impaired in auditoriums, churches, theaters, and outdoor events.

Quest Electronics, 510 S. Worthington St., Oconomowoc, WI, 53066, 414-567-9157

V.P./General Manager: Robert J. Wurm

Ass. Manager: Rita Suechting

National Sales Manager: Paul James

Products: complete line of sound measuring and analyzing instruments, and the Silent Page Assistive Listening Device for the hearing impaired.

See full listing under **Test Equipment & Tools**

Schell Electronics, Inc., 120 N. Lincoln, Chanute, KS, 66720, 316-431-2350

President: Jerry Schell

Sec'y./Treas.: Janice Schell

Products: The Transwave Wireless FM System for the hearing impaired designed especially for use in churches, auditoriums, theaters, or any place where hearing can be a problem. The system allows the hearing impaired individual the freedom to sit anywhere in the space and hear the speaker's voice clearly transmitted.

Sennheiser Elec. Corp., 48 W. 38th St., New York, NY, 10018, 212-944-9440

Products: a full line of microphones (dynamic, electret, and condenser) as well as RF (hand-held, body-pac, single channel, diversity/non-diversity, and rack-mount), infrared listening equipment, headphones and portable mixers.

See full listing under **Microphones**

Telex Communications, Inc., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550

President: John Howe

Sales Manager: Gary Fisher

Dir. of Marketing: Donald Mereen

Products: wireless base station transmitter and pocket sized receiver system for churches, theaters, outdoor events, and more.

See full listing under **Pro Audio Sound Systems & Products**

Unex, A Dynatech Company, 4 Kidder Road, Chelmsford, MA, 01824, 617-256-8222

Products: infrared professional sound system for churches, schools, nursing homes, and auditoriums; connects easily to audio systems for interference-free aid to the hearing-impaired who wear lightweight wireless receivers.

Williams Sound Corp., 5929 Baker Rd., Minnetonka, MN, 55345-5997, 612-931-0291, 800-328-6190

President: Gerald I. Williams

General Manager: James M. Broz

Dir. of Marketing: Paul S. Ingebritsen

Sales Manager: Jeff Peters

Chief Engineer: Jay Kershaw

Products: FM wireless hearing-assistance systems; programmable wireless microphone systems; wireless tour guide systems; talent cueing and loop systems.

IN/OUT REGISTERS

Alpha Communications, 89-D Cabot Ct., Hauppauge, NY, 11788-3717, 516-434-8080, FAX: 516-434-8334

President: Mark S. Goldberg

Vice President: Madelyn R. Goldberg

Products: intercom and video/intercom systems for apartment, home, and industry, custom-made vandal-resistant lobby panels and apartment stations for new and retrofit, 2-wire apartment intercom, non-coax video/intercom.

See full listing under **Intercom Apartment/Residential**

Com-Tec Inc., P.O. Box 965, 639 Hickory Farm Lane, Appleton, WI, 54914, 414-734-7105

President: Ken McLellan

Vice President: Tony Leslie

Products: Med-Index, and Staff Register System.

CORNELL

ELECTRONIC PRODUCTS, INC.

Cornell Electronics Products, Inc., 4911 W. Good Hope Rd., Milwaukee, WI, 53223, 414-351-4660

President: Donald Glaubitz

V.P. and Chief Engineer: Gary Butler

Sales Manager: Pauline Haack

Products: visual nurse call, audio visual nurse call, door monitors, apartment intercom, in/out register, institutional intercom, silent paging.

See full listing under **Intercom Hospital Health Care**

Fisher-Berkeley Corp.—Ektacom, 5800 Christie Ave., Emeryville, CA, 94608, 415-655-9696

President: Robert S. Fisher

V.P. Engineering: Robert T. Shipley

Sales Engineer: Michael D. Lagrimas

Sales Engineer: Roger E. Stewart

Products: duplex and simplex intercom systems, annunciator and voice call-in; visual and audio/visual nurse call systems; MMC microcomputer nurse call; manual personnel registers and apartment signaling systems.

See full listing under **Intercom Hospital Health Care**

Franklin Instrument Co., Inc., P. O. Box 2949, Warminster, PA, 18974, 215-355-7942

Products: time systems.



JERON

electronic systems, inc.

Jeron Electronic Systems, Inc., 1743 W. Rosehill Dr., Chicago, IL, 60660, 312-275-1900, 800-621-1903

President: Jerome Chesnul

V.P. Sales: John Charczuk

Products: nurse call, intercommunication and signalling systems for hospitals and institutions. In-out registers, room status-clinic call, door surveillance. Apartment intercom-security systems. Telephonic and video entry.

See full listing under **Intercom Hospital Health Care**

Radionics, Inc., 920 Holt Rd., Webster, NY, 14580, 716-872-2100

President: A.J. Ozminkowski

Distributor/Sales Mgr.: Roger Moore

Products: telecommunications peripheral systems including in/out registry and messaging, corporate directory assistance, and silent visual intercom systems. Tel Trak 2 allows users to determine the in/out and available/not available status of colleagues from terminals, monitors, or tone telephones. Printed messages at entry stations.

Ring Group of North America, Inc., 230 Community Drive, Great Neck, NY, 11021, 516-487-0250, 800-645-9690

Chief Operating Officer: Paul Ruggieri

Vice President: Peter McLean

Sales & Material: Craig Krsanac

Technical: John Camello

Software: Chris Gruber

Products: hands free intercom systems, microprocessor, field programmable interface with telephone, paging, alarm systems, school and annunciator communications systems-simplex and microprocessor operation. Speakers, amplifiers, and baffles.

See full listing under **Intercom Duplex**

Sensor Engineering Co., 2155 State Street, Hamden, CT 06517, 203-777-7443

Synergistics, Inc., 3 Erie Drive, Natick, MA, 01760, 617-655-1340

EDSTAN

Doctors Register

Time & Sound Co., Inc., 14120 Live Oak Ave., Baldwin Park, CA, 91706, 818-960-7781, 800-423-4765

Products: IBM PC-based staff register systems with video displays, smart entrance stations, visual paging option, message printer option now offers flush wall mounting printers for doctors' messages and patient location.

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INTERCOM DUPLEX



Aiphone Intercom Systems, 1700 130th Ave. N.E.,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking, telephone-type, video intercom entry systems, paging talkback, microprocessor intercom systems, mixer amplifiers, paging speakers, horns, drivers, ceiling speakers, tuners, and special order products.

Alpha Communications, 89-D Cabot Ct., Hauppauge, NY,
11788-3717, 516-434-8080, FAX: 516-434-8334

President: Mark S. Goldberg

Vice President: Madelyn R. Goldberg

Products: intercom and video/intercom systems for apartment, home, and industry, custom-made vandal-resistant lobby panels and apartment stations for new and retrofit, 2-wire apartment intercom, non-coax video/intercom.

See full listing under **Intercom Apartment/Residential**

Alternative Communications Corp, 110 Williams St., New
York, NY, 10038, 212-693-1440

President: Alan R. Fitzpatrick

Executive V.P.: Sonny Greco

District Offices:

ATC, Santa Monica, CA, 213-395-5055

ATC, San Francisco, CA, 415-981-0880

Amplivox USA/Security Intercom, Inc., 1833 N. 105th,
Seattle, WA, 98133, 206-523-6170

President: Gerard H. Mooyman

Director of Sales: Jeffrey L. Groth

Sales Manager: Claudio Mazzola

National Advertising: John Bernard

Products: video-audio entry-control duplex intercom systems, interior-exterior entrance panel modules with built-in incandescent lighting. Colored finished choice of gold, aluminum, and bronze, for one residential to large number multi-residential.

See full listing under **Intercom Apartment/Residential**

ATC Supply Corp., 106 Hobart St., Hackensack, NJ,
07601, 201-488-0776

President: Alan R. Fitzpatrick

Sales Manager: Ed Charrier

Products: hands-free intercom manufactured by LM Ericsson. Fully digital, user-programmable, features include networking capability and paging interface.

Columbia Scientific, Inc, P.O. Box 203190, Austin, TX,
78720, 512-258-5191

Products: multi-channel VOX intercom systems for bank drive-ins, self service gas stations, security stations, cashiers, etc.

Communications Co., Inc, 3490 Noell St., San Diego, CA,

92110, 619-297-3261

Products: programmable two-way intercom amplifier w/vox., media distribution amplifier, projector patch, room combining systems, record patch, RT-60 reverberation measuring device, burst octave noise generator, 1/3 octave real time analyzer, 27 B.I.T. oscilloscope adapter, audio inductive loop receivers.

See full listing under **Intercom Institutional/School**

Comtek, Inc., 357 W. 2700 St., Salt Lake City, UT, 84115,
801-466-3463

President: Ralph Belgique

Application Engineer: Steve Kartchner

In-House Sales: LeeAnne Richards

Products: wireless microphone systems operating up to 216 MHz and RF assistive listening systems for the hearing impaired for use in auditoriums, churches and theaters, wireless tour guide systems, wireless intercom systems, and wireless cuing systems.

See full listing under **Microphones**

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL,
60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

See full listing under **Portable Sound Systems**



Elenex, Inc., 7392 Trade St., San Diego, CA, 92121, 619-
566-7515

President: Sten Persson

V.P. Marketing: Dennis Berglund

Product Sales: Dave Arseneau

Business Manager: Sally Marshall

Products: Freedom™ wireless drive-thru communications, Moducom™ intercom for drive-thru/correctional high-noise applications, vehicle sensing equipment, Touch-Mic™ microphone systems, amplifiers, horns, and speech processing systems.

District Offices:

Elenex, Inc., N. Conocton, NY, 716-534-5950

Fisher-Berkeley Corp.—Ektacom, 5800 Christie Ave.,
Emeryville, CA, 94608, 415-655-9696

President: Robert S. Fisher

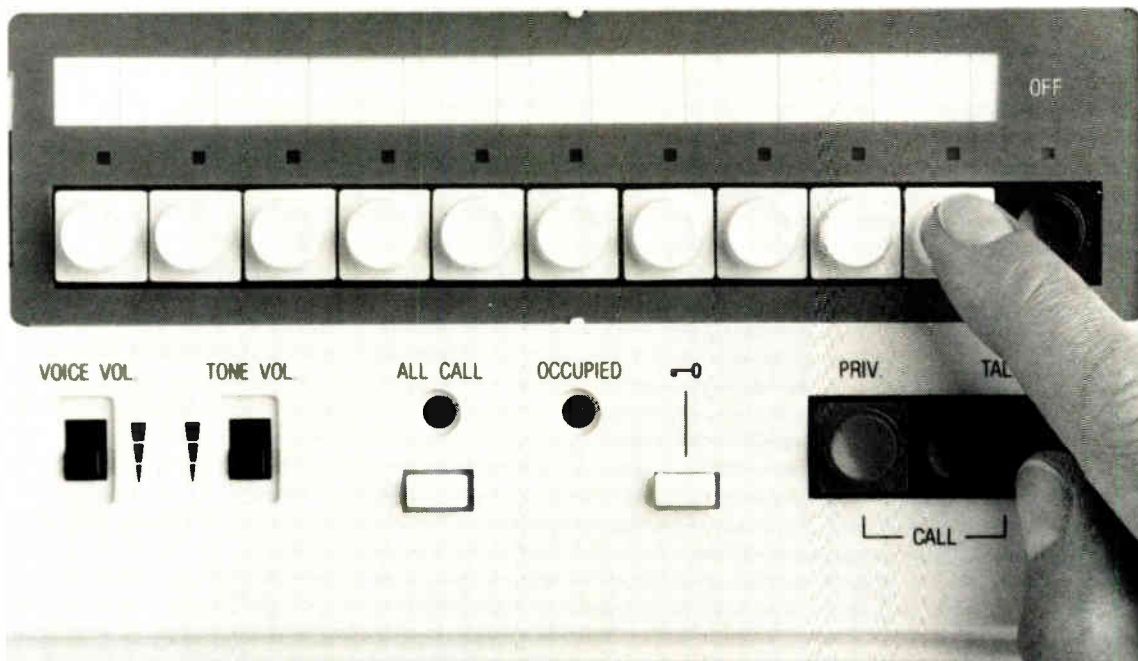
V.P. Engineering: Robert T. Shipley

Sales Engineer: Michael D. Lagrimas

Sales Engineer: Roger E. Stewart

Products: duplex and simplex intercom systems, annunciator and voice call-in; visual and audio/visual nurse call systems; MMC microcomputer nurse call; manual personnel registers and apartment signaling systems.

See full listing under **Intercom Hospital Health Care**



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Graystone Systems Ltd., Bradley Corp. Pk, 300 Corp. Dr., Ste #5, Blauvelt, NY, 10913, 914-353-0600, 800-952-9528, FAX: 914-353-0657
President: Ruben F. Graystone
V.P. Engineering: Steve Shaki
Sales Manager: Christopher LoCascio
Products: manufacturer of intercom equipment and distributors of closed circuit television equipment for homes, condos, and industry. Suppliers of residential and commercial selective call video intercom systems. Specializing in intercommunications for computer room application.
East coast distributor of ELBEX AMERICA.
See full listing under **Intercom Apartment/Residential**

ITT/DES, Inc., 20 Mayfield Ave., Edison, NJ, 07607, 201-225-6121, 800-524-1646
Vice President: Donald Duthaler
Chief Engineer: Jeffrey Stellman
Products: full line of microprocessor-based duplex intercom systems with capabilities from 8-4000 lines. Full-featured systems with a variety of stations.

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705
President: Charles Griffiths
Vice President/Sales: Jack W. Tucker
Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.
See full listing under **Audio Amplifiers**



Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN 1
President: Leon Goldberg
Sales Manager: Lawrence J. Goldberg
V.P. Finance & Administration: David H. Goldberg
Chief Engineer: Sanford Hoffman
Sales/Service Representative: Linda E. Scaturro
Products: communication and security systems for apartment house, home, and industry. Intercom, music and paging systems, mailboxes, directories, annunciators, signaling devices, communications cable, nurse-call systems, Interview audio/visual intercom systems.
See full listing under **Intercom Apartment/Residential**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Squeglia
Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

Rauland-Borg Corp., 3535 W. Addison St., Chicago, IL, 60618, 312-267-1300
President: William Krucks
Sr. V. P.: Kenneth T. James
National Sales Manager: Rick Blunt
Chief Engineer: Lawrence Gleason
Products: amplifiers, preamplifiers, mixers, equalizers, intercoms, telephone systems, school communications systems, health care communications systems, professional sound systems, paging systems, AM-FM tuners, loud-speaker systems.
See full listing under **Pro Audio Sound Systems & Products**

Ring Group of North America, Inc., 230 Community Drive, Great Neck, NY, 11021, 516-487-0250, 800-645-9690
Chief Operating Officer: Paul Ruggieri
Vice President: Peter McLean
Sales & Material: Craig Krsanac
Technical: John Camello
Software: Chris Gruber
Products: hands free intercom systems, microprocessor, field programmable interface with telephone, paging, alarm systems, school and annunciator communications systems-simplex and microprocessor operation. Speakers, amplifiers, and baffles.
District Offices:
Ring Group of N. A., Cambridge, MA, 617-661-8400
Klumpp Sales Co., Jacksonville, FL, 904-268-1529
Allwest Electronics, Cambrillo, CA, 805-388-1789
Corrigan Agencies, Covington, LA, 504-893-7455
Poetker Communications, Ontario, Canada, 519-893-1010
Gordy Duval, Chicago, IL, 312-774-5115
J. C. Electronics, Honolulu, HI, 808-943-8514

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119
President: Bob Ringer
V. P. Mkt'g: Douglas Leighton
Sales Manager: Shelley Harrison
Sales Engineer: Dave Richardson
Chief Engineer: Stan Hubler
Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems. Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.

Stentofon Communications, Inc., 6012 Paretta Dr., Kansas City, MO, 64120, 816-231-7200
President: Ken Jensen
Vice President: Jim Pierce
Regional Sales Mgr.: Fred Hall
Business Manager: Doug Caldwell
Telecourier Mkt'g: Linda Wick
Products: a full line of internal communications products including microprocessor based duplex and simplex intercoms, telecourier wireless paging producers, and digilarm wireless duress system.
District Offices:
Stentofon Communications Inc., San Dimas, CA, 714-599-9323
Stentofon Communications Inc., Fairfax, VA, 703-378-0367

Swintek Enterprises, Inc., 587 Division St., Campbell, CA, 95008, 408-378-8091

President: William P. Swintek

V.P.: Les Underwood

Products: RF full-duplex intercoms, switching diversity receivers for sound reinforcement, mini receivers for video cameras, lavalier and hand-held FM transmitters, antenna distribution amplifiers to 470 mHz.

See full listing under **Microphones**

Technical Projects, Inc., 449 Princeton Ave., P.O. Box 1449, Barrington, IL, 60010, 312-381-5350, 800-562-5872

President: Glenn Mullis

Secretary/Treasurer: Sibbelina Mullis

Technician: Mike Barrett

Products: full-line wired production Intercom Systems for industrial, theatre, educational and sports. Plus "unique problem solving" devices. Also includes headsets for fast food drive-thru.

See full listing under **Intercom Production & Theatrical**

Telex Communications, Inc., Pro Audio Dept., 9600

Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550

President: John Howe

Sales Manager/Microphones: Gary Fisher

Sales Manager/Intercom: Claude Kleiman

Director of Marketing: Donald Merein

Products: closed circuit intercom systems for headset or speaker station listening with 2, 3, and 4 channel master stations.

See full listing under **Pro Audio Sound Systems & Products**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Westpark Communications, Inc., 2408 Superior Dr., Arlington, TX, 76013, 817-469-1144

President: Jim Burke

V. P. Marketing: Sam Smith

V. P. Engineering: Larry Norris

Products: drive-thru communication systems for fast food restaurants. Features include hands free operation, multiple order stations, headsets and background music.

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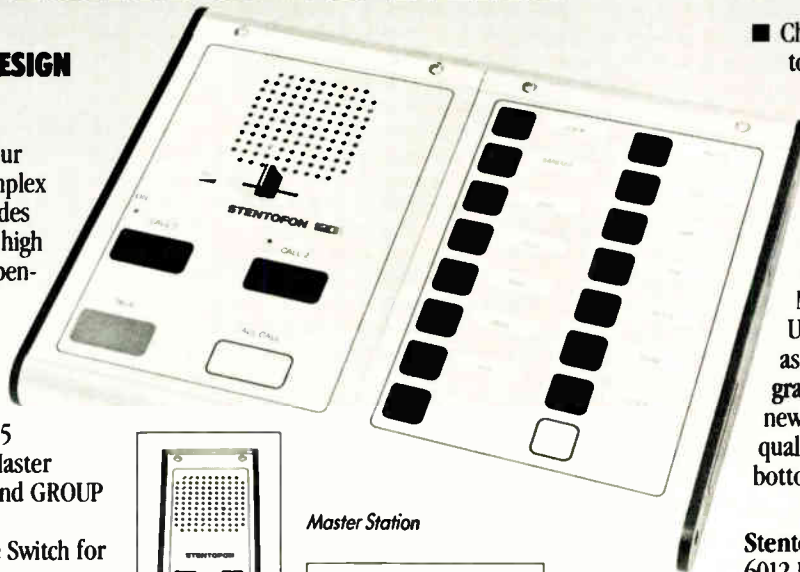
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Aiphone Intercom Systems, 1700 130th Ave. N.E.,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking, telephone-type, video intercom entry systems, paging talkback, microprocessor intercom systems, mixer amplifiers, paging speakers, horns, drivers, ceiling speakers, tuners, and special order products.

See full listing under **Intercom Duplex**

Alpha Communications, 89-D Cabot Ct., Hauppauge, NY,
11788-3717, 516-434-8080, FAX: 516-434-8334

President: Mark S. Goldberg

Vice President: Madelyn R. Goldberg

Products: intercom and video/intercom systems for apartment, home, and industry, custom-made vandal-resistant lobby panels and apartment stations for new and retrofit, 2 wire apartment intercom, non-coax video/intercom.

See full listing under **Intercom Apartment/Residential**

Bogen Communications, Inc., PO Box 575, 50 Spring St.,
Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.

See full listing under **Audio Amplifiers**

Communications Co., Inc, 3490 Noell St., San Diego, CA,
92110, 619-297-3261

Products: programmable two-way intercom amplifier w/vox., media distribution amplifier, projector patch, room combining systems, record patch, RT-60 reverberation measuring device, burst octave noise generator, 1/3 octave real time analyzer, 27 B.I.T. oscilloscope adapter, audio inductive loop receivers.

See full listing under **Intercom Institutional/School**

Communications Equipment Co., Inc., 6443 Western Ave.,
Glen Arbor, MI, 49636, 616-334-3081

President: Darrell W. Thomas

Sales Manager: Thomas A. Garmhausen

Products: commercial/industrial telephone and loudspeaking intercom systems, self-contained intercom masters for service windows, fast-food restaurants, self-serve gas stations.

See full listing under **Alarm & Security**

Fanon Courier, 14281 Chambers Road, Tustin, CA,
92680, 714-669-9890, 800-345-1354

President: Frank Blaha

Director Sales/Mkt'g: Murray Trotiner

Director of Engineering: Miguel Santana

Products: PA amplifiers and systems, paging/talkback speakers, intercom systems, megaphones, FM scanning monitors, and CB transceivers.

See full listing under **Pro Audio Sound Systems & Products**

Fisher-Berkeley Corp.—Ektacom, 5800 Christie Ave.,
Emeryville, CA, 94608, 415-655-9696

President: Robert S. Fisher

V.P. Engineering: Robert T. Shipley

Sales Engineer: Michael D. Lagrimas

Sales Engineer: Roger E. Stewart

Products: duplex and simplex intercom systems, annunciator and voice call-in; visual and audio/visual nurse call systems; MMC microcomputer nurse call; manual personnel registers and apartment signaling systems.

See full listing under **Intercom Hospital Health Care**

Graystone Systems Ltd., Bradley Corp. Pk, 300 Corp. Dr.,
Ste #5, Blauvelt, NY, 10913, 914-353-0600, 800-952-9528, FAX: 914-353-0657

President: Ruben F. Graystone

V.P. Engineering: Steve Shaki

Sales Manager: Christopher LoCascio

Products: manufacturer of intercom equipment and distributors of closed circuit television equipment for homes, condos, and industry. Suppliers of residential and commercial selective call video intercom systems. Specializing in intercommunications for computer room application. East coast distributor of ELBEX AMERICA.

See full listing under **Intercom Apartment/Residential**

Jeron Electronic Systems, Inc., 1743 W. Rosehill Dr.,
Chicago, IL, 60660, 312-275-1900, 800-621-1903

President: Jerome Chesnul

V.P. Sales: John Charczuk

Products: nurse call, intercommunication and signalling systems for hospitals and institutions. In-out registers, room status-clinic call, door surveillance. Apartment intercom-security systems. Telephonic and video entry.

See full listing under **Intercom Hospital Health Care**



Lee Dan Communications, 155 Adams Ave.,
Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: communication and security systems for apartment house, home, and industry. Intercom, music and paging systems, mailboxes, directories, annunciators, signaling devices, communications cable, nurse-call systems, Interview audio/visual intercom systems.

See full listing under **Intercom Apartment/Residential**

Marsh Products Inc., 336 McKee Street, Batavia, IL, 60510, 312-879-8008
Products: audio communications, drive-thru.

Norcon Electronics, Inc., 1260 Ralph Ave., Brooklyn, NY, 11236, 718-451-1112
Products: talk-thru-communicator in subways through the glass.

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Sgueglia
Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

Ring Group of North America, Inc, 230 Community Drive, Great Neck, NY, 11021, 516-487-0250, 800-645-9690
Chief Operating Officer: Paul Ruggieri
Vice President: Peter McLean
Sales & Material: Craig Krsanac
Technical: John Camello
Software: Chris Gruber
Products: hands free intercom systems, microprocessor, field programmable interface with telephone, paging, alarm systems, school and annunciator communications systems-simplex and microprocessor operation. Speakers, amplifiers, and baffles.
See full listing under **Intercom Duplex**

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119
President: Bob Ringer
V. P. Mkt'g: Douglas Leighton
Sales Manager: Shelley Harrison
Sales Engineer: Dave Richardson
Chief Engineer: Stan Hubler
Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems. Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.
See full listing under **Intercom Duplex**

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN, 55144-1000, 612-733-0447
Marketing Manager: Don Rada
Sales Manager: Don Sluder
Products: music libraries for all purposes. Players, Industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems. Microphones, amplifiers and other sound system components.

See full listing under **Back/Foreground Systems Libraries**

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516
President: Louis W. Keller
V.P. & General Manager: James J. Ganci
V.P./Sales & Marketing: Mel Hulkower
Regional Sales Manager: Eric Forman
Regional Sales Manager: Bruce Kurtz
Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.
See full listing under **Audio Amplifiers**

T.S.K. Electronics, Inc., 564 Young St., P.O. Box 190, Tonawanda, NY, 14151-0190, 716-693-3916
President: Theodore S. Kedzierski
Chief Engineer: Kevin T. Kedzierski
Products: zero-level loudspeaking intercommunication systems for use on very long twisted or leased telephone lines, communication system design and fabrication, audio detection systems and warehouse telephone intercoms.
See full listing under **Intercom Industrial**

Tektone Sound & Signal Mfg. Inc., 1331 S. Killian Dr., Lake Park, FL, 33403, 305-844-2383, FAX: 305-845-1587
President: Manuel Mira
General Manager: Carlos Mira
Sales Mkt'g Director: Tom Hendricks
Chief Engineer: Jim Switzer
Products: intercom/video intercom systems for home, apartment, commercial, institutional with telephone or loudspeaking operation and door answering. UL listed nurse call, security/alarm, emergency call and AM/FM radio intercom systems.
See full listing under **Intercom Apartment/Residential**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538
President: Yoshiro Ishida
V. P./Treasurer: Tom Kohsaka
V. P.: Bill Hooper
Controller: Cal Weddle
Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.
See full listing under **Pro Audio Sound Systems & Products**



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INTERCOM APARTMENT/RESIDENTIAL

Aiphone Intercom Systems, 1700 130th Ave. N.E., Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking, telephone-type, video intercom entry systems, paging talkback, microprocessor intercom systems, mixer amplifiers, paging speakers, horns, drivers, ceiling speakers, tuners, and special order products.

See full listing under **Intercom Duplex**

Amplivox USA/Security Intercom, Inc., 1833 N. 105th, Seattle, WA, 98133, 206-523-6170

President: Gerard H. Mooyman

Director of Sales: Jeffrey L. Groth

Sales Manager: Claudio Mazzola

National Advertising: John Bernard

Cambridge Electronics Laboratories, 20 Chester St., Sommerville, MA, 02144-3005, 617-629-2805

President: Dr. Jeffrey Race

Sales Manager: Charlotte Bissell

See full listing under **Telephone System Peripherals**

Cornell Electronics Products, Inc., 4911 W. Good Hope Rd., Milwaukee, WI, 53223, 414-351-4660

President: Donald Glaubit

V.P. and Chief Engineer: Gary Butler

Sales Manager: Pauline Haack

Products: visual nurse call, audio visual nurse call, door monitors, apartment intercom, in/out register, institutional intercom, silent paging.

See full listing under **Intercom Hospital Health Care**

Fisher-Berkeley Corp.—Ektacom, 5800 Christie Ave., Emeryville, CA, 94608, 415-655-9696

President: Robert S. Fisher

V.P. Engineering: Robert T. Shipley

Sales Engineer: Michael D. Lagrimas

Sales Engineer: Roger E. Stewart

Products: duplex and simplex intercom systems, annunciator and voice call-in; visual and audio/visual nurse call systems; MMC microcomputer nurse call; manual personnel registers and apartment signaling systems.

See full listing under **Intercom Hospital Health Care**



Graystone Systems Ltd., Bradley Corp. Pk, 300 Corp. Dr., Ste #5, Blauvelt, NY, 10913, 914-353-0600, 800-952-9528, FAX: 914-353-0657

President: Ruben F. Graystone

V.P. Engineering: Steve Shaki

Sales Manager: Christopher LoCascio

Products: manufacturer of intercom equipment and distributors of closed circuit television equipment for homes,

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 Professional Electric, Yonkers, NY, 914-779-6118
 Freedman & Assoc., Cherry Hill, NJ, 609-751-0157
 Marketline Ltd., Baltimore, MD, 301-944-2111
 Westech. Fountain Valley, CA, 714-962-2545



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Jeron Electronic Systems, Inc., 1743 W. Rosehill Dr., Chicago, IL, 60660, 312-275-1900, 800-621-1903

President: Jerome Chesnul

V.P. Sales: John Charczuk

Products: nurse call, intercommunication and signalling systems for hospitals and institutions. In-out registers, room status-clinic call, door surveillance. Apartment intercom-security systems. Telephonic and video entry.

See full listing under **Intercom Hospital Health Care**

Siedle Intercom, 780 Parkway, Broomal, PA, 19008, 215-353-9595

President: Earl Zausmer

Sales/East Coast: Steve Camp

Sales/West Coast: Jim Scholl

Products: 2-wire apartment systems, open view push to talk intercom, video intercom, school & hospital systems.

Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: apartment house intercom from two units up. Custom made lobby panels and apartment stations for retrofit applications. Enterview combination audio/visual intercom. Government approved mailboxes.

Multi-Vox Ltd., 9967 St. Michel Blvd., Montreal- Nord, Quebec, Canada, H1H 5G7, 514-321-3131

President: Fernand Parent

Engineer: Dominique Malenfant

Operations Mgr.: Georges Morissette

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Paso Sound Products, 14 First St., Pelham, NY, 10803,
914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Sentex Systems, Inc., 20732 Lassen St., Chatsworth, CA, 91311, 818-700-9800

President: William R. Davis

Exec. V.P.: Richard P. Greenthal

Mgr. of Admin.: Frances H. Butler

Sales: Andrew M. Greenthal

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Products: access control equipment including telephone entry, card access, and keypad entry systems. All systems are rugged, stand-alone systems, ideally suited for outdoor applications.

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Coaxial Systems Assoc., Inc., Tequesta, FL, 305-746-6626

Denning Electronics, Hinsdale, IL, 312-920-1488

Technical Products Corp., Denver, CO, 303-333-1141

Boggs & Assoc., Ft. Washington, MD, 301-292-2047



Tektone Sound & Signal Mfg. Inc., 1331 S. Killian Dr., Lake Park, FL, 33403, 305-844-2383, FAX: 305-845-1587

President: Manuel Mira

General Manager: Carlos Mira

Sales Mkt'g Director: Tom Hendricks

Chief Engineer: Jim Switzer

Products: intercom/video intercom systems for home, apartment, commercial, institutional with telephone or loudspeaking operation and door answering. UL listed nurse call, security/alarm, emergency call and AM/FM radio intercom systems.

District Offices:

Alarmtronics, Burnsville, MN, 612-890-0309

Wm. B. Allen Supply Co., New Orleans, LA, 504-525-8222

Alvan C. Chaney & Assoc., Healeah, FL, 305-558-3933

Dardon & Assoc., Olmstead Township, OH, 216-234-4555

Klump Sales Co., Jacksonville, FL, 904-268-1529

Lee Dan Communications, Hauppauge, NY, 516-231-1414

Lichtenauer & Assoc., Antioch, CA, 415-757-1200

Majestic Sales, Chicago, IL, 312-582-4300

Mountain Representatives, Denver, CO, 303-623-0972

Chuck Olson Assoc., Renton, WA, 206-271-5416

Universal Agents & Assoc., Bloomington, MN, 612-894-3660

Westech Marketing, Culver City, CA, 213-870-9286

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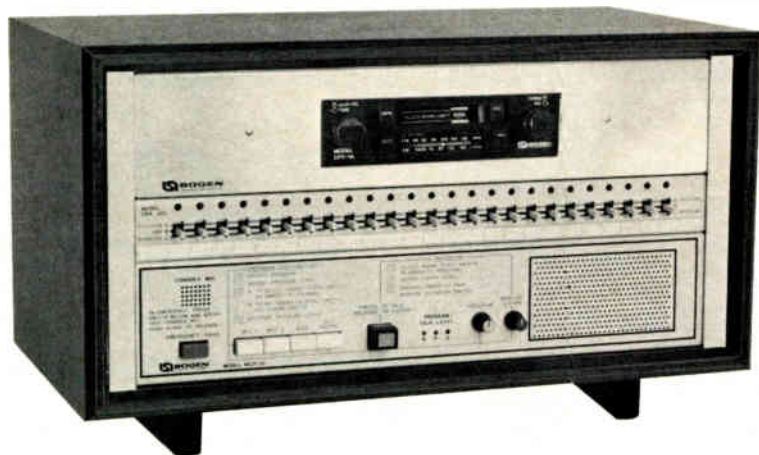
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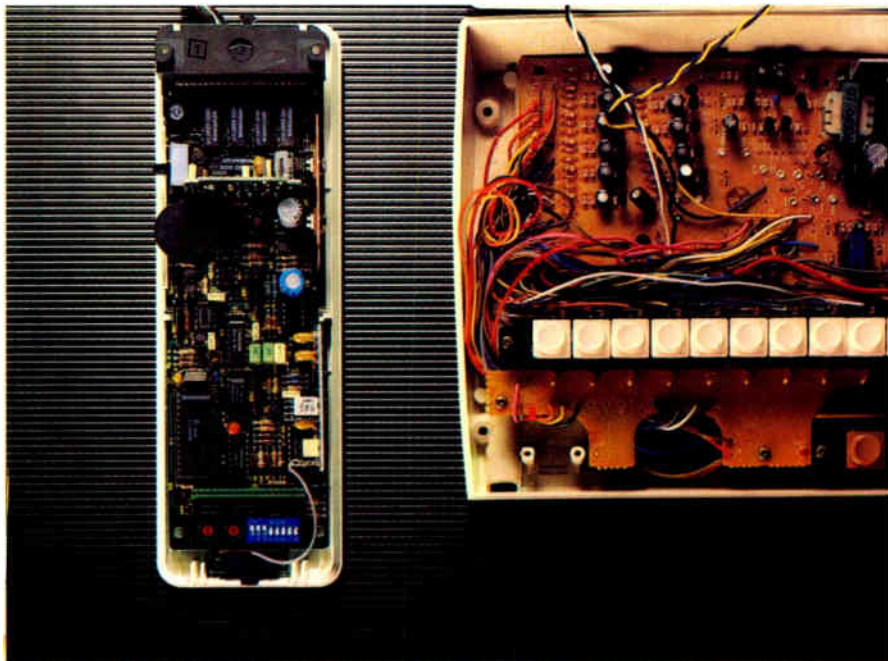
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We use modern double side high density circuit boards to give you clear sound with up to 99 stations and fewer wires. In fact our sound is so clear, we have a plug on the SIC 2000 for a woofer and tweeter.

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INTERCOM INSTITUTIONAL/SCHOOL

Aiphone Intercom Systems, 1700 130th Ave. N.E.,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking,
telephone-type, video intercom entry systems, paging
talkback, microprocessor intercom systems, mixer ampli-
fiers, paging speakers, horns, drivers, ceiling speakers,
tuners, and special order products.

See full listing under **Intercom Duplex**

BCE/Edcom, Inc., 1585A Britannia RD. E., #7,
Mississauga, Ont., CD, L4W 2M4, 416-678-0801

President: Peter Jova

Sales Manager: Keith Moore

Project Manager: Alan Butterfield

Products: administrative communications systems for use
in schools, hospitals, correctional institutes, military per-
sonnel housing, retirement complexes, airports, etc.,
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District Offices:

Wood & Co., Buffalo, NY, 716-886-0019

Bogen Communications, Inc., PO Box 575, 50 Spring St.,
Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems
and equipment, including amplifiers, mixer-preamplifiers,
loudspeakers and horns (including amplified types), tele-
phone paging equipment, FM/AM tuners and receivers,
intercoms, microphones, centralized sound systems, au-
dio surveillance monitor.

See full listing under **Audio Amplifiers**

Communications Co., Inc, 3490 Noell St., San Diego, CA,
92110, 619-297-3261

Products: programmable two-way intercom amplifier
w/vox., media distribution amplifier, projector patch, room
combining systems, record patch, RT-60 reverberation
measuring device, burst octave noise generator, 1/3 oc-
tave real time analyzer, 27 B.I.T. oscilloscope adapter, audio
inductive loop receivers.

Communications Equipment Co., Inc., 6443 Western Ave.,
Glen Arbor, MI, 49636, 616-334-3081

President: Darrell W. Thomas

Sales Manager: Thomas A. Garmhausen

Products: selective signal, common talk, telephone sys-
tems; including multiple talk channels, paging access, in-
ternal speakers for hands-free answering; other special
features.

See full listing under **Alarm & Security**

Cornell Electronics Products, Inc., 4911 W. Good Hope
Rd., Milwaukee, WI, 53223, 414-351-4660

President: Donald Glaubitz

V.P. and Chief Engineer: Gary Butler

Sales Manager: Pauline Haack

Products: visual nurse call, audio visual nurse call, door
monitors, apartment intercom, in/out register, institutional
intercom, silent paging.

See full listing under **Intercom Hospital Health Care**

Delta Communications Co., 7852 78th Ave., S.W.,
Tacoma, WA, 98498, 206-582-2201

President: Sid C. Flothe

Sales Manager: Sid C. Flothe

Products: school & institutional intercom systems de-
signed to replace existing systems, or new construction 10
rooms and up; two sizes; #2600 & #2500 Series; Time-
Tone signals; Telephone or speakers; selector panels.

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL,
60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse
call, intercom, voice paging, clock, sound masking, staff
registry and voice evacuation systems for health care,
institutional and industrial markets.

See full listing under **Portable Sound Systems**

Graystone Systems Ltd., Bradley Corp. Pk, 300 Corp. Dr.,
Ste #5, Blauvelt, NY, 10913, 914-353-0600, 800-952-
9528, FAX: 914-353-0657

President: Ruben F. Graystone

V.P. Engineering: Steve Shaki

Sales Manager: Christopher LoCascio

Products: manufacturer of intercom equipment and dis-
tributors of closed circuit television equipment for homes,
condos, and industry. Suppliers of residential and com-
mercial selective call video intercom systems. Specializing
in intercommunications for computer room application.
East coast distributor of ELBEX AMERICA.

See full listing under **Intercom Apartment/Residential**

Jeron Electronic Systems, Inc., 1743 W. Rosehill Dr.,
Chicago, IL, 60660, 312-275-1900, 800-621-1903

President: Jerome Chesnut

V.P. Sales: John Charczuk

Products: nurse call, intercommunication and signalling
systems for hospitals and institutions. In-out registers,
room status-clinic call, door surveillance. Apartment inter-
com-security systems. Telephonic and video entry.

See full listing under **Intercom Hospital Health Care**



Lee Dan Communications, 155 Adams Ave.,
Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-
231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: Com-Care emergency call systems for multi-

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See full listing under **Intercom Apartment/Residential**

Multi-Vox Ltd., 9967 St. Michel Blvd., Montreal- Nord, Quebec, Canada, H1H 5G7, 514-321-3131
President: Fernand Parent
Engineer: Dominique Malenfant
Operations Mgr.: Georges Morissette
Sales/Technical Cdr.: Antoine Krelio
Products: solid state and microprocessor controlled intercom systems for apartments, hospital and health care facilities, schools, institutions and industries, paging systems, audio amplifiers, chimes, simplex intercom systems.
See full listing under **Intercom Apartment/Residential**

Poetker Communications, Ltd., 461 Manitou Dr., Kitchner, Ontario, N2JH3, 519-893-1010
President: B. W. Poetker
Sales Manager: G. R. Ertel
Products: 2200 Series school or institutional communication system, 25 STN thru 250 STN; MCS250 Series microprocessor based school or institutional communication system, 16 STN thru 256 STN.
District Offices:
Ring Group of North America, Great Neck, NY, 800-645-9690

Powertronix, 10623 Lawson River Ave., Fountain Valley, CA, 92708, 714-963-5411
President: Robert Gehlke
Sales Mgr.: Bill Organ
Products: self-contained 200 watt voice evacuation system; 400 watt current drive distribution amplifiers with 24V-48VDC emergency back-up power capability; 24VDC mobile amplifier with three electronically-switched, prioritized inputs.
See full listing under **Audio Amplifiers**

Rauland-Borg Corp., 3535 W. Addison St., Chicago, IL, 60618, 312-267-1300
President: William Krucks
Sr. V. P.: Kenneth T. James
National Sales Manager: Rick Blunt
Chief Engineer: Lawrence Gleason
Products: amplifiers, preamplifiers, mixers, equalizers, intercoms, telephone systems, school communications systems, health care communications systems, professional sound systems, paging systems, AM-FM tuners, loud-speaker systems.
See full listing under **Pro Audio Sound Systems & Products**

Ring Group of North America, Inc., 230 Community Drive, Great Neck, NY, 11021, 516-487-0250, 800-645-9690
Chief Operating Officer: Paul Ruggieri
Vice President: Peter McLean
Sales & Material: Craig Krsanac
Technical: John Camello
Software: Chris Gruber
Products: hands free intercom systems, microprocessor, field programmable interface with telephone, paging, alarm systems, school and annunciator communications systems-simplex and microprocessor operation. Speakers,

amplifiers, and baffles.
See full listing under **Intercom Duplex**

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119
President: Bob Ringer
V. P. Mkt'g: Douglas Leighton
Sales Manager: Shelley Harrison
Sales Engineer: Dave Richardson
Chief Engineer: Stan Hubler
Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems. Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.
See full listing under **Intercom Duplex**

Siedle Intercom, 780 Parkway, Broomal, PA, 19008, 215-353-9595
President: Earl Zausmer
Sales/East Coast: Steve Camp
Sales/West Coast: Jim Scholl
Products: 2-wire apartment systems, open view push to talk intercom, video intercom, school & hospital systems.
See full listing under **Intercom Apartment/Residential**

Sound Powered Communications Corp., 335 Robbins Ave., PO Box 5569, Trenton, NJ, 08638, 609-883-1180
Sales Manager: Harry Mosle
Products: sound-powered communications equipment including intercom stations, field telephones, handsets, noise-attenuating headsets, hook-up cable, reel systems, and accessories.

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516
President: Louis W. Keller
V.P. & General Manager: James J. Ganci
V.P./Sales & Marketing: Mel Hulkower
Regional Sales Manager: Eric Forman
Regional Sales Manager: Bruce Kurtz
Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.
See full listing under **Audio Amplifiers**

Tektone Sound & Signal Mfg. Inc., 1331 S. Killian Dr., Lake Park, FL, 33403, 305-844-2383, FAX: 305-845-1587
President: Manuel Mira
General Manager: Carlos Mira
Sales Mkt'g Director: Tom Hendricks
Chief Engineer: Jim Switzer
Products: intercom/video intercom systems, common talk paging intercom system, intruder alarm system, audio-visual emergency alarm and monitoring system, UL listed audio-visual and visual only nurse call systems, emergency call system, in/out register.
See full listing under **Intercom Apartment/Residential**

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550
President: John Howe
Sales Manager/Microphones: Gary Fisher
Sales Manager/Intercom: Claude Kleiman
Director of Marketing: Donald Mereen
Products: closed circuit intercom systems for headset or speaker station listening with 2, 3, and 4 channel master-stations.
See full listing under **Pro Audio Sound Systems & Products**

Touchplate International Inc., 16530 Garfield Ave., Paramount, CA, 90723, 213-636-8171
Products: all-master intercom systems, low-voltage light switching, signal, and room-status systems. Flush plate line of wall plates, speaker baffles and accessories.

Valcom Inc., 1111 Industry Ave., Roanoke, VA, 24013, 703-982-3900
President: J.W. Mason
Sales Manager: Donald Buck
Chief Engineer: D. Lynch
Products: telephone integrated paging and intercom systems, talkback, bell-buzzer, code call, PBX adapters, key telephone systems ancillaries, loud-ringers, power supplies, amplified and talkback speakers.
See full listing under **Paging Systems**

INTERCOM HOSPITAL HEALTH CARE

Aiphone Intercom Systems, 1700 130th Ave. N.E., Bellevue, WA, 98005, 206-455-0510
President: Hiko Shinoda
National Sales Mgr.: Jim Morrison
Products: industrial, business, residential, loudspeaking, telephone-type, video intercom entry systems, paging talkback, microprocessor intercom systems, mixer amplifiers, paging speakers, horns, drivers, ceiling speakers, tuners, and special order products.
See full listing under **Intercom Duplex**

Alpha Communications, 89-D Cabot Ct., Hauppauge, NY, 11788-3717, 516-434-8080, FAX: 516-434-8334
President: Mark S. Goldberg
Vice President: Madelyn R. Goldberg
Products: intercom and video/intercom systems for apartment, home, and industry, custom-made vandal-resistant lobby panels and apartment stations for new and retrofit, 2-wire apartment intercom, non-coax video/intercom.
See full listing under **Intercom Apartment/Residential**

American Zettler Corp., 16881 Hale Ave., Irvine, CA, 92714, 714-660-1670
National Mkt'g Mgr.: Michael Nathanson
Products: nurse call systems ranging from simple direct-select type with "no-loss" speech, to sophisticated com-

puter-based nurse call/patient information systems.

Bunting Inc., 46 Beatrice St., Bridgeport, CT, 06607, 203-384-0081
Products: nurse call equipment, small TV for hospitals.

Communications Equipment Co., Inc., 6443 Western Ave Glen Arbor, MI, 49636, 616-334-3081
President: Darrell W. Thomas
Sales Manager: Thomas A. Garmhausen
Products: five different nurse-call systems including audio visual, visual only, and doctor's in-out registers. Included are emergency call systems for nursing homes and elderly housing, both new construction and rehabilitation.
See full listing under **Alarm & Security**

CORNELL

ELECTRONIC PRODUCTS, INC.

Cornell Electronics Products, Inc., 4911 W. Good Hope Rd., Milwaukee, WI, 53223, 414-351-4660
President: Donald Glaubitz
V.P. and Chief Engineer: Gary Butler
Sales Manager: Pauline Haack
Products: visual nurse call, audio visual nurse call, door monitors, apartment intercom, in/out register, institutional intercom, silent paging.
District Offices:
SLK Tech Rep Assoc., Hayward, CA, 415-785-4531
Gustafson System Sales, Inc., Palatine, IL, 312-358-2505
Bidwell Sales Assoc. of AZ, Mesa, AZ, 602-265-2029
Pinz, Rockville Centre, NY, 516-678-6887
Dick Belew Sales, Inc., Dallas, TX, 214-644-7881
Cavendish and Winchester, Inc., Atlanta, GA
Avcom, Inc., N. Olmsted, OH
Richard S. Pass Assoc., Langhorne, PA
Kingston Sales Corp., Indianapolis, IN
Rancillio Assocs., St. Louis, MO
Russ Bidwell Sales, Gardena, CA
CB Electronic Marketing, Arvada, CO
Cartwright & Bean, Inc., Orlando, FL
Avwest, Inc., Fountain Hills, AZ
LSM Assoc., Phelps, NY
McLaughlin-Long Marketing, Inc., Woodinville, WA
William A. Ellinger, Palm Coast, FL
W.A. Hendrickson Co., Inc., Scituate, MA
Kodo Assoc., Inc., Minneapolis, MN

Crest Electronics Inc., Simon at Third, Dassel, MN, 55325, 612-275-3382, 800-328-8908
President: James H. Holm
Engineering Support Mgr.: Brian Torney
CFO: Bob Zahler
Production Mgr.: Jerry Kumpula
Products: pillow speakers, nurse-call cords, bed controls, annunciators, security control systems, doctors' registers, patient lighting, audio and visual nurse-call systems, clinic systems.

Diversatronics, 620 Park Way, Broomall, PA, 19008, 215-356-3995
President: Wilfred Klein
Sales Mgr.: Wilfred Klein

Chief Engineer: Wilfred Klein
Products: doctor-locating and patient-flow monitors in many configurations utilizing colored lights and various flashing rates to send information from exam rooms to reception areas.

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL, 60174, 312-584-2300

President: Jack Stone
Marketing Mgr.: Craig Lyons
Distributor Sales Mgr.: Doug Fellabaum
Service Manager: Cliff Carlson
Division General Mgr.: Steve Deppe
Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

See full listing under **Portable Sound Systems**

Edstan Doctors Register Div. of Time & Sound Co., Inc., 14120 Live Oak Ave., Baldwin Park, CA, 91706, 818-960-7781-960-7781, 800-426-4765

Engineered Electronics, Inc., 4301 Industrial Access Rd., Douglasville, GA, 30134, 404-949-3290

President: Roy J. Caviness
Secretary/Treasurer: Anthony W. Bunch
Products: door monitor panels, pillow speakers with assorted plug types, and a complete line of U. L. listed visual and audio/visual nurse call equipment.

Fisher-Berkeley Corp.—Ektacom, 5800 Christie Ave.,

Emeryville, CA, 94608, 415-655-9696

President: Robert S. Fisher
V.P. Engineering: Robert T. Shipley
Sales Engineer: Michael D. Lagrimas
Sales Engineer: Roger E. Stewart
Products: duplex and simplex intercom systems, annunciator and voice call-in; visual and audio/visual nurse call systems; MMC microcomputer nurse call; manual personnel registers and apartment signaling systems.

District Offices:

Arthur E. Tilley, Jr., Fayetteville, PA, 717-352-8432
Walter D. Radner, Westfield Center, OH, 216-887-5646

ITT/DES, Inc., 20 Mayfield Ave., Edison, NJ, 07607, 201-225-6121, 800-524-1646

VP Donald Duthaler

CE Jeffrey Stellman

Products: full line of microprocessor-based duplex intercom systems with capabilities from 8-4000 lines. Totally full-featured systems with a complete variety of stations.

See full listing under **Intercom Duplex**

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

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 Silver Peak Marketing, Ltd., Wheat Ridge, CO, 303-467-9042
 John S. Wilkin & Assoc., Hillboro, OH, 513-393-1137

Jeron Electronic Systems, Inc., 1743 W. Rosehill Dr., Chicago, IL, 60660, 312-275-1900, 800-621-1903
 President: Jerome Chesnul
 V.P. Sales: John Charczuk
 Products: nurse call, intercommunication and signalling systems for hospitals and institutions. In-out registers, room status-clinic call, door surveillance. Apartment intercom-security systems. Telephonic and video entry.
 District Offices:

- M. Schlarman, Wanaque, NJ, 201-839-2243
- ASR Enterprises, Ltd. Fallston, MD, 301-893-0001
- Burcaw Company & Assoc., Warren, MI, 313-573-4605
- Central Marketing Group, Kansas City, MO, 816-741-7460
- Jim Church Marketing, Bloomington, IN, 812-334-0383
- Crockett/Petty, Dallas, TX, 214-350-3377
- Greg Dzubay & Assoc., Peoria, AZ, 602-979-2358
- Gemini Electronics Marketing, Edmonds, WA, 206-776-3121
- Gustafson Sales, Red Wing, MN, 612-388-4277
- J.W. Lehner Co., Stow, OH, 216-686-1965
- Meyer Marketing, Deerfield Beach, FL, 305-481-9250
- Meyer & Ross, Burlingame, CA, 415-348-6800
- New West Agency, San Diego, CA, 619-299-3269
- Pacific West Marketing, Honolulu, HI, 803-923-5563
- Henry Philips Co., Roswell, GA, 404-992-3070

Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1
 President: Leon Goldberg
 Sales Manager: Lawrence J. Goldberg
 V.P. Finance & Administration: David H. Goldberg
 Chief Engineer: Sanford Hoffman
 Sales/Service Representative: Linda E. Scaturro
 Products: UL 1609 listed nurse call systems, Com-Care emergency call system for multi-dwelling senior citizen housing. Intercom systems for doctor's offices and examining rooms. Sony Watchcam systems.
 See full listing under **Intercom Apartment/Residential**

Multi-Vox Ltd., 9967 St. Michel Blvd., Montreal- Nord, Quebec, Canada, H1H 5G7, 514-321-3131
 President: Fernand Parent
 Engineer: Dominique Malenfant
 Operations Mgr.: Georges Morissette
 Sales/Technical Cdr.: Antoine Krelio
 Products: solid state and microprocessor controlled intercom systems for apartments, hospital and health care facilities, schools, institutions and industries, paging systems, audio amplifiers, chimes, simplex intercom systems.
 See full listing under **Intercom Apartment/Residential**

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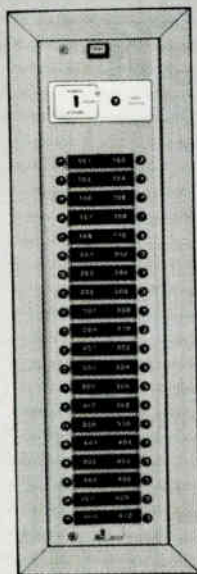


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Powertronix, 10623 Lawson River Ave., Fountain Valley, CA, 92708, 714-963-5411
President: Robert Gehlke
Sales Mgr.: Bill Organ
Products: self-contained 200 watt voice evacuation system; 400 watt current drive distribution amplifiers with 24V-48VDC emergency back-up power capability; 24VDC mobile amplifier with three electronically-switched, prioritized inputs.
See full listing under **Audio Amplifiers**

Rauland-Borg Corp., 3535 W. Addison St., Chicago, IL, 60618, 312-267-1300
President: William Krucks
Sr. V. P.: Kenneth T. James
National Sales Manager: Rick Blunt
Chief Engineer: Lawrence Gleason
Products: amplifiers, preamplifiers, mixers, equalizers, intercoms, telephone systems, school communications systems, health care communications systems, professional sound systems, paging systems, AM-FM tuners, loud-speaker systems.
See full listing under **Pro Audio Sound Systems &**

Ring Group of North America, Inc., 230 Community Drive, Great Neck, NY, 11021, 516-487-0250, 800-645-9690
Chief Operating Officer: Paul Ruggieri
Vice President: Peter McLean
Sales & Material: Craig Krsanac
Technical: John Camello

Software: Chris Gruber
Products: hands free intercom systems, microprocessor, field programmable interface with telephone, paging, alarm systems, school and annunciator communications systems-simplex and microprocessor operation. Speakers, amplifiers, and baffles.
See full listing under **Intercom Duplex**

Siedle Intercom, 780 Parkway, Broomal, PA, 19008, 215-353-9595
President: Earl Zausmer
Sales/East Coast: Steve Camp
Sales/West Coast: Jim Scholl
Products: 2-wire apartment systems, open view push to talk intercom, video intercom, school & hospital systems.
See full listing under **Intercom Apartment/Residential**

Tektone Sound & Signal Mfg. Inc., 1331 S. Killian Dr., Lake Park, FL, 33403, 305-844-2383, FAX: 305-845-1587
President: Manuel Mira
General Manager: Carlos Mira
Sales Mkt'g Director: Tom Hendricks
Chief Engineer: Jim Switzer
Products: UL 1609 listed audio-visual and visual only nurse call systems, microprocessor nurse call system, emergency call system, audio-visual emergency alarm and monitoring system, in/out register.
See full listing under **Intercom Apartment/Residential**



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TEL.: (514) 321-3131

INTERCOM INDUSTRIAL

Atkinson Dynamics, 10 W. Orange Ave., S. San Francisco, CA, 94080, 415-583-9845

Encom Products Co., Inc., P.O. Box 300, 502 Lower Hopewell Road, Oxford, PA, 19363-0300, 215-932-9600
Sales: Bob Mallalieu

Products: Interphone equipment for commercial/industrial applications ranging from retail stores to offshore drilling rigs. Watertight/dustproof and explosion-proof phone units are available in the 200 Series intercom family of common-talk phones. Common-talk page phone equipment for commercial/industrial applications ranging from bowling alleys to waste water treatment plants.

Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg
Sales Manager: Lawrence J. Goldberg
V.P. Finance & Administration: David H. Goldberg
Chief Engineer: Sanford Hoffman
Sales/Service Representative: Linda E. Scaturro
Products: communication and security systems for apartment house, home, and industry. Intercom, music and paging systems, mailboxes, directories, annunciators, signaling devices, communications cable, nurse-call systems, Interview audio/visual intercom systems.

See full listing under **Intercom Apartment/Residential**

Metragen Ltd., 3701 Chesswood Dr., #309, Downsview, Ont., CD, M3J 2P6, 416-635-9212
Manager: Edward Wigdor

Products: intercom handphones and hands-free intercom headphones, working long distances over ordinary 2-conductor wire. Internal batteries, no external power needed. Built-in buzzers.

District Offices:
Cambridge Co., Niles, IL, 312-647-8100

T.S.K. Electronics, Inc., 564 Young St., P.O. Box 190, Tonawanda, NY, 14151-0190, 716-693-3916

President: Theodore S. Kedzierski
Chief Engineer: Kevin T. Kedzierski
Products: zero-level loudspeaking intercommunication systems for use on very long twisted or leased telephone lines, communication system design and fabrication, audio detection systems and warehouse telephone intercoms.

Talk-A-Phone Co., 5013 N. Kedzie Ave., Chicago, IL, 60625, 312-539-1100

SM Dan F. Kagen
VP S. Shanes

Products: intercom systems for office, industry, home, apartment house, security, bank drive-ins, restaurant, and other commercial drive-thrus.

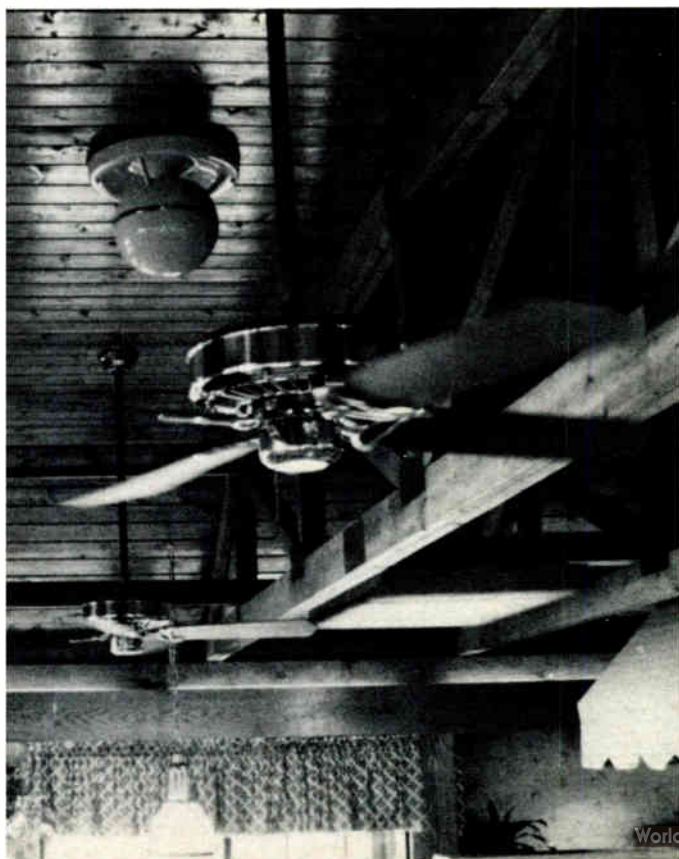
Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550

President: John Howe
Sales Manager/Microphones: Gary Fisher
Sales Manager/Intercom: Claude Kleiman
Director of Marketing: Donald Mereen

Products: closed circuit intercom systems for headset or speaker station listening with 2, 3, and 4 channel master-stations.

See full listing under **Pro Audio Sound Systems & Products**

BURGER KING HAS MUSIC "THEIR WAY"



Functional Communications Corp., the Muzak affiliate in upstate New York, serves the business areas of Rochester, Albany and Syracuse, NY. They provide background and foreground music for a broad spectrum of retail, restaurant, and industrial locations. Wendell Martin, Vice President of Engineering for Functional Communications Corp., has designed the Muzak background music system for many BURGER KING Restaurants. Reviewing the drawings at the S. Salina Street, Syracuse location he concluded that using standard loudspeakers would require the need to install six units. However, Wendell determined that one Soundsphere #110 in the center of the dining area would do the job effectively.

Choosing a sandtone color, the speaker blended in with the wooden ceiling decor. By utilizing one speaker unit, a cost saving was effected in materials and labor. When asked about the Soundsphere #110, the manager stated, "It's the best Burger King I have been in for even background music."

FCC has also used Soundspheres in the main terminal building at Syracuse Airport and the Danbury Fair Mall in Connecticut. John Romig, President of FCC, stated "Soundsphere equipment is an effective tool for acoustically challenging environmentthat means business!"

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INTERCOM PRODUCTION & THEATRICAL

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Ch'mn. of the Board: John C. McLaren

Vice President: Scott Anderson

Nat'l. Sales Mgr.: Jim Lucas

Operations Mgr.: Jennifer Drescher

Products: audio signal processors.

See full listing under **Audio Signal Processors**

Clear-Com Intercom Systems, 1111 17th St, San Francisco, CA, 94107, 415-861-6666

President: Bob Cohen

Sales Manager: Michael Goddard

Products: a variety of wired and wireless conference line intercommunications equipment, designed for both headset and speaker/microphone operation.

David Clark Co., Inc., 360 Franklin St. Box 155, Worcester, MA, 01613-0155, 617-756-6216

Product Mgr. Comm.: George R. Conlon

Products: portable and fixed communication systems featuring noise attenuating (reducing) headsets for use in high noise areas. VOX systems for portable radios with throat microphones, headsets and adapters for use with mobile and portable radios.

See full listing under **Headphones & Headsets**

Durcom Inc., PO Box 315, Bristol, CT, 06010, 203-584-5955

President: Robert Beyus

Vice President: Elizabeth Miller

Products: intercom system components and amplifiers for carbon and dynamic headsets.

District Offices:

Comprehensive Video Supply Corp., Northvale, NJ, 800-526-0242

Quality Video Supply, Hackensack, NJ, 201-488-8336

P.A.S., Ft. Worth, TX, 817-483-7474

Videoplay Industries, Tolland, CT, 203-872-9195

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

ROH, 913 W. 223rd St., Torrance, CA, 90502, 213-533-1498

Director of Mkt'g: Dan Garrigan

Mgr./Sales Engineering: Saul Walker

Products: broadcast intercoms with belt-pack and IFB ac-

cessories, Modular Audio Systems including distribution, control and buffer modules and Audio Line Monitors with built-in Bridging Switchers and VU or Peak meters.

District Offices:

Executive Audio, Ltd., Kingston, U. K., 01-541-0180

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119

President: Bob Ringer

V. P. Mkt'g: Douglas Leighton

Sales Manager: Shelley Harrison

Sales Engineer: Dave Richardson

Chief Engineer: Stan Hubler

Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems.

Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.

See full listing under **Intercom Duplex**

Technical Projects, Inc., 449 Princeton Ave., P.O. Box 1449, Barrington, IL, 60010, 312-381-5350, 800-562-5872

President: Glenn Mullis

Secretary/Treasurer: Sibbelina Mullis

Technician: Mike Barrett

Products: full-line wired production Intercom Systems for industrial, theatre, educational and sports. Plus "unique problem solving" devices. Also includes headsets for fast food drive-thru.

District Offices:

Professional Audio Mkt'g, New York, NY, 516-367-8620

Sound Sales, Lanham, MD, 301-731-6355

Audio Marketing Assoc., Brecksville, OH, 216-526-2426

Wm. M. Linz & Assoc., Deerfield, Ill, 312-945-9600

Design Factors, Hacienda Heights, CA, 213-697-7576

Telex Communications, Inc., Pro Audio Dept., 9600

Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550

President: John Howe

Sales Manager/Microphones: Gary Fisher

Sales Manager/Intercom: Claude Kleiman

Director of Marketing: Donald Merein

Products: closed circuit intercom systems for headset or speaker station listening with 2, 3, and 4 channel master-stations.

See full listing under **Pro Audio Sound Systems & Products**

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707

President: P. W. Tarlton

V.P. Mktg/Sales: W.L. Goldstein

V.P. Engineering: Stephan W. Andrews

Market Mgr. Tel./Paging: Art Arlow

Market Mgr. Life Safety/Ind.: Rein Haus

Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications.

Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.

See full listing under **Alarm & Security**

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LIFE-SAFETY & VOICE EVACUATION SYSTEMS

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026, 314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: UL-listed: audio, visual and audio visual signalling devices. Voice/Tone and audio evacuation system loudspeakers and emergency warning lights. Fireman's intercom system and components, emergency telephone communications and accessories, cabinets, racks and enclosures.

See full listing under **Loudspeakers**

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Ch'mn. of the Board: John C. McLaren

V.P.: Scott Anderson

Nat'l. Sales Mgr.: Jim Lucas

Operations Mgr.: Jennifer Drescher

Products: audio signal processors.

See full listing under **Audio Signal Processors**

Community Light & Sound, Inc., 333 E 5th St., Chester, PA, 19013, 215-876-3400

President: Bruce Howze

V. P. of Engineering: John Wiggins

Vice President: Christine Howze

Director of Mkt'g: John Strand

Products: sound reinforcement loudspeakers for background, foreground and paging. Two, three, & four way loudspeakers systems for use in churches, schools, nightclubs, restaurants, and portable live applications. Pattern Control horns, midrange compression loudspeakers and components for engineered sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL, 60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

See full listing under **Portable Sound Systems**

IGM Communications, Inc., 282 West Kellogg Road, Bellingham, WA, 98226, 206-733-4567

President: James F. Wells

V. P. Engineering: Steve Brockway

Dir. of Mkt'g/Sales: Thomas R. Ransom

Products: multi-cartridge playback machines. The IGM Instacart provides instant access to any of 48 NAB-style cartridges. The IGM GoCart provides random access to any

of 24 NAB-style cartridges.

ITT/DES, Inc., 20 Mayfield Ave., Edison, NJ, 07607, 201-225-6121, 800-524-1646

VP Donald Duthaler

CE Jeffrey Stellman

Products: full line of microprocessor-based duplex intercom systems with capabilities from 8-4000 lines. Totally full featured systems with a complete variety of stations.

See full listing under **Intercom Duplex**

MacKenzie Laboratories, Inc., 5507 Peck Rd., Arcadia, CA, 91006, 818-579-0440, 800-423-4147

President: Addison R. Taylor

V.P./Chief Engineer: Nagy Khattar

Sales & Systems: Joe Vitale

Products: solid-state, digital audio message repeaters, heavy-duty, endless-loop message repeaters, voice alarm and evac. equipment, voice security equipment, boardroom AAV equipment control systems.

See full listing under **Message Repeater/Storecaster**

Powertronix, 10623 Lawson River Ave., Fountain Valley, CA, 92708, 714-963-5411

President: Robert Gehlke

Sales Mgr.: Bill Organ

Products: self-contained 200 watt voice evacuation system; 400 watt current drive distribution amplifiers with 24V-48VDC emergency back-up power capability; 24VDC mobile amplifier with three electronically-switched, prioritized inputs.

See full listing under **Audio Amplifiers**

Rauland-Borg Corp., 3535 W. Addison St., Chicago, IL, 60618, 312-267-1300

President: William Krucks

Sr. V. P.: Kenneth T. James

National Sales Manager: Rick Blunt

Chief Engineer: Lawrence Gleason

Products: amplifiers, preamplifiers mixers, equalizers, intercoms, telephone systems, school communications systems, health care communications systems, professional sound systems, paging systems, AM-FM tuners, loud-speaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.

See full listing under **Audio Amplifiers**

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LOUDSPEAKERS

Accusonics Systems Corp., 2101 Jericho Turnpike, New Hyde Park, NY, 11040, 516-328-3300

GM: Dennis Goodman

Products: severe environment headsets, microphones, and loudspeakers.



Altec Lansing Corp., Box 26105, Oklahoma City Box, OK, 73126-0105, 405-324-5311

President: Davis Merrey

V.P. Mkt'g.: Gary Rilling

Sales Manager: Gayle Campbell

Products: industrial and professional electronic and loudspeaker products including mixers, mixing consoles, power amplifiers, equalizers, compressor/limiters, high power speakers and compression drivers, constant directivity horns, crossovers, and microphones.

District Offices:

1-800-824-7888

Allen McAlister, S. CA, AZ, NM, HI, S. NV, W. TX, Ext M-266

Bill Sparling, N. CA, CO, ID, MT, WY, OR, UT, N. NV, WA, AK, Ext M-267

Steve Fauchier, IL, IA, KS, MN, MO, NE, SD, WI, N. MI, Ext M 268

Dave Read, AR, LA, MS, OK, TX, Ext M-269

Jerry Spriggs, IN, KY, lower MI, W. NY, OH, W. PA, WV, Ext M-270

Mike Sturgeon, AL, FL, GA, NC, SC, TN, S. VA, Ext M-271

George Solti, CT, DE, MA, MD, ME, NH, NJ, RI, VT, DC, E. NY, E. PA, N. VA, Ext M-273

American Acoustics, The Mitek Group, One Mitek Plaza, Winslow, IL, 61089, 815-367-3000

President: Loyd Ivey

V.P. of Manufacturing: Dave Smythe

Products: D-Series digital loudspeakers ideal for commercial and industrial applications where aesthetics and hi-fidelity are key considerations.

District Offices:

Pete Kallaos, Creve Coeur, MO, 314-878-3365

Dennis Ramer, Walton, IN, 219-626-3115

Thom Fehrman, Winslow, IL, 815-357-3000

William Warnock, Barrington, IL, 312-382-4550

Anchor Audio Inc., 913 West 223rd St, Torrance, CA, 90502, 213-533-5984

President: Jim Van Waay

National Sales Manager: Jon Peirson

Products: portable sound systems and accessories, lecturns, as well as powered speaker systems for foreground and background applications.

See full listing under **Portable Sound Systems**

Apogee Sound Inc, 1150 Industrial Ave, Suite C & D, Petaluma, CA, 94952, 707-778-8887

President: Ken Deloria

V.P. Marketing: Brian Glenn

V.P. Sales: Joe Manning

General Manager: Lynn Baker

Production Manager: Jim Sides

Products: sound reinforcement application loudspeaker systems from monitors to full-range high-level systems, passive and bi-amp.



Argos Products Co., 600 S. Sycamore St., Genoa, IL, 60135, 815-784-5118

President: Donald C. MacLaughlin

Sales, V.P.: Ronald Evers

Credit Manager: Rosella Johnson

Chief Engineer: Loren Schrader

Products: indoor /outdoor Sound Columns, packaged sound systems, Portable PA systems, Sound powered lecturns, background & foreground speakers, baffle/speaker combinations, baffles & enclosures.

District Offices:

Ted Firaneck Sales, Pontiac, MI, 313-373-9595

Nevco, Inc., Kansas City, MO, 816-421-1751

W.A. Hendrickson Co., N. Scituate, MA, 617-545-0652

Maish Sales, Mulberry, IN, 317-296-2322

TMC Sales, Ft. Lee, NJ, 201-944-8340

Shamrock Sales, Dayton, OH, 513-258-1227

Pacnor Marketing, Lynwood, WA, 206-771-6016

Murphy & Cota, Atlanta, GA, 404-875-2525

Mel Foster Tech. Sales, Edina, MN, 612-941-9800

Peregrine Southwest Reps, Houston, TX, 713-589-8481

Stinson Assoc., Havertown, PA, 215-446-8585

Lewis & Dunnigan, Syracuse, NY, 315-446-5522

G. MCL Cole Co., Parkridge, IL, 312-692-6040

Wes Tech. Marketing, Culver City, CA, 213-837-1398

Bensik Assoc., Ocala, FL, 904-732-9775

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026, 314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: the industry's largest selection of loudspeaker systems and components for commercial sound and pro audio applications. Complete catalog of high compliance and co-axial models, UL-listed, reflex, radial, explosion-proof, weather-resistant options, cone and re-entrant type loudspeakers—for communications, background/foreground music, public address, intercom and telecommunications, security and alarm systems.

District Offices:

Atlas/Soundolier, Parsippany, NJ, 201-887-7800

Atlas Electronics Ltd., Toronto, Ont., CD, 416-789-7761

Bensik Assoc., Ocala, FL, 904-732-9775

EESCO, Inc., Los Angeles, CA, 818-242-8823

Graham/Davis, Inc., Dallas, TX, 214-231-3034

Key Marketing, Plymouth, MI, 313-459-6040

Monfort Electronics Marketing, Indianapolis, IN, 317-872-9977

JR Morgan Agency, Inc., Phoenix, AZ, 602-268-3464

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Secom Systems, Atlanta, GA, 404-455-0672
Warren Assoc., Santa Clara, CA, 408-988-1121
Ziskind Assoc., Rolling Meadows, IL, 312-577-1624

Audio-Technica U. S., Inc., 1221 Commerce Drive, Stow,
OH, 44224, 216-686-2600

President: Jon R. Kelly

V.P. Marketing: Ken Reichel

Nat'l. Sales Mgr./Pro Products: Mark Taylor

Mkt'g. Mgr./Pro Products: Greg Silsby

Sales Mgr./Pro Products: Mike Wuellner

Products: studio condenser microphones, fixed charge
condenser microphones, dynamic microphones,
UniPoint™ Microphone Series, boundary layer micro-
phones, microphone accessories, mixers, cables, direct
boxes, microphone stands and booms, weatherproof hi-fi-
fidelity speaker systems.

See full listing under **Microphones**

Audiotech, 410 South Cedar, Lansing, MI, 48912, 517-
371-4148

President: Dave MacPherson

Production: Mike Cosgrove

Sales: Dave Arnold

Products: hi-fidelity loudspeakers for sound reinforce-
ment, touring sound rentals/installations.

Audisar, Box 1561, Bellevue, WA, 98009, 206-454-2040
Owner: R. Munger

Products: industrial audio and broadcast equipment, audio
transformers, loudspeakers, power amplifiers, mixers,
sound projector interface device, test equipment, specials,
and engineered sound systems.

See full listing under **Pro Audio Sound Systems &
Products**

Auernheimer Labs and Co, 4561 E. Florence Ave.,
Fresno, CA, 93725, 209-442-1048

Owner: Curly Auernheimer

Products: loudspeaker systems for control rooms, studios,
auditoriums, churches, business, and mixdown.

Auratone Corp, P.O. Box 698, Coronado, CA, 92118,
619-297-2820

President: Jack Wilson

V.P. Finance: H.E. Wilson

V.P. Sales: S.E. Wilson

Products: recording and broadcast monitor and reference
loudspeaker systems. Commercial and residential sound
distribution loudspeaker systems. Also, security system
audio monitor loudspeaker systems.

BES/Bertagni Electroacoustical Systems, Inc., 12753
Moore St, Cerritos, CA, 90701, 213-926-0201, 800-592-
4644

President: K.L. Ching

Sales Manager: Dennis Schulgen

Chief Engineer: Alex Bertagni

Products: high-performance, hemispherically-radiating
ceiling speakers with 180° dispersion pattern, closely re-
sembles flat ceiling tiles. Omnidirectional outdoor sound
reinforcement speakers with 360° dispersion.

Omnidirectional Thinline series for churches and theaters.

District Offices:

Peregrine Southwest Reps, Houston, TX, 713-772-6765

Powerlines Marketing, Evanston, IL, 312-864-1147

L.C.A. Sales, Tuckahoe, NY, 212-402-6600

World-Wide Electronics, Pembroke Pines, FL, 305-584-
7024

H.W. Philips Co., Roswell, GA, 404-992-3070

Design Factors, LaHabra, CA, 213-697-7576

J.C. Electronics, Honolulu, HI, 808-943-8514

New Resource, Norwell, MA, 617-659-1463

MJA, Inc., St. Charles, MO, 314-723-0400

Mel Foster Tech. Sales, Edina, MN, 612-941-9800

SLK/Tech Rep., Hayward, CA, 415-785-4531

Greg Dzubay & Assoc., Peoria, AZ, 602-979-2358

Alby Currant Sales, Pittsford, NY, 716-586-1100

AMA, Brecksville, OH, 216-526-2426

Charlie Winkler & Assoc., Uniontown, OH, 216-699-9511

Vector, Inc., Seattle, WA, 206-322-4343

Bogen Communications, Inc., PO Box 575, 50 Spring St.,
Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems
and equipment, including amplifiers, mixer-preamplifiers,
loudspeakers and horns (including amplified types), tele-
phone paging equipment, FM/AM tuners and receivers,
intercoms, microphones, centralized sound systems, au-
dio surveillance monitor.

See full listing under **Audio Amplifiers**

Bose Corp, The Mountain, Framingham, MA, 01701, 617-
879-7330

Mgr./Pro Products: David Bell

E. Reg. Sales Mgr.: Tim Dorwart

Nat'l Technical Rep.: Bruce Myers

Mkt'g Dev. Specialist: Mark Mayfield

Products: professional loudspeaker systems for portable
and installed applications including sound reinforcement,
commercial sound, background/foreground music, cinema
sound. Modeler™ computer software for sound system
design assistance.

See full listing under **Pro Audio Sound Systems &
Products**

Boston Acoustics

Boston Acoustics, 247 Lynnfield St., Peabody, MA,
01960, 617-532-2111

Chairman of the Board: Frank Reed

President: Andy Petite

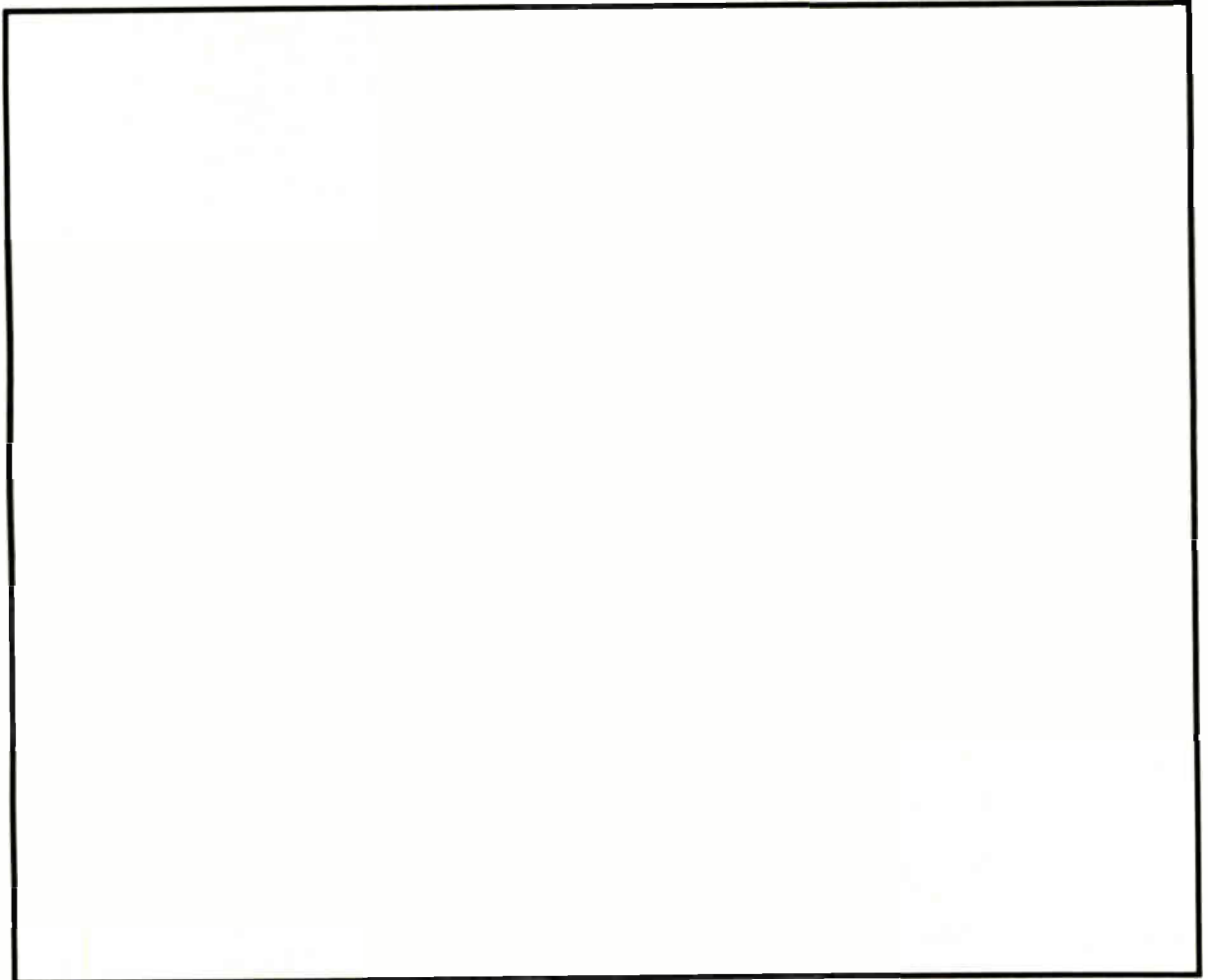
Director of Mkt'g: Richard Frank

Sales Manager: Fred Pinkerton

Products: Boston Acoustics Designer Series high fidelity
loudspeakers can be used as main or extension speakers
in the home and commercial spaces. They mount flush in
new or existing walls or ceilings and can be painted.

Bozak, Inc., 326 South St, New Britain, CT, 06051-3721,
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National
Sound and Communications
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for sound and electronics system contractors

President: Donald D. Bowers
Dir. of Marketing: William J. Kietlyka
Chief Engineer: Sheldon Glick
Products: foreground speaker systems and professional speakers.
See full listing under **Disco Components & Systems**

C-T Audio Marketing Inc., 3050 SW 14th Place, Suite 3, Boynton Beach, FL, 33435, 305-738-0622, 282-8346
President: Andre Walton
Dir. Sales/Mkt'g: Sam Spennacchio
Products: c-ducer contact microphone, particularly popular for studio quality sound from piano. Stanz - range of speaker and lighting stands. O + M - range of high quality PA speakers. Omni Craft - range of studio noisegates.
See full listing under **Microphones**

Calibration Standard Instruments, P.O. Box 2727, Oakland, CA, 94602, 415-531-8725
Owner: Edward M. Long
Products: MDM-4 Nearfield Monitor™, MDM-TA2 Time Align® Nearfield Monitor™, MDM-TA3 Time Align® Monitor, LE-1C, LHE-1C, and LHE-2C ELF™ Crossover Electronics.

Celestion Industries, Inc., Kuniholm Dr., Box 521, Holliston, MA, 01746, 617-429-6706
Exec. V.P. & Gen. Mgr.: Peter Wellikoff
Nat'l. Sales Manager: David Deranian
Mkt'g./Sales Support Admn: Barry Fox
Credit Manager: Kathy Maguire
Products: powerful sound reinforcement loudspeakers with high-fidelity sound called the SR Series; established line of raw-frame drivers for a variety of applications.

Cerwin-Vega, 555 E. East St., Simi Valley, CA, 93065, 805-584-9332, TLX:662250
President: Gene Czerwinski
Sales Manager: Rich Mandella
Chief Engineer: Marshall Buck, Ph.D
Products: electronic and acoustic systems for domestic and auto sound systems; MI, sound reinforcement, motion picture, broadcast, recording, and commercial sound products.

Cetec Gauss, 9130 GlenOaks Blvd., Sun Valley, CA, 91352, 213-875-1900
President: Jim Williams
Chief Engineer: Walter Dick
Products: loudspeakers for the professional market, a full range of products are available for sound reinforcement, musical instrument reproduction, studio control rooms, and sound contractors.

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-962-6009
Products: a full line of paging products.
See full listing under **Paging Systems**

Community Light & Sound, Inc., 333 E 5th St., Chester, PA, 19013, 215-876-3400
President: Bruce Howze
V. P. of Engineering: John Wiggins
Vice President: Christine Howze

Director of Mkt'g: John Strand
Products: sound reinforcement loudspeakers for background, foreground and paging. Two, three, & four way loudspeakers systems for use in churches, schools, nite-clubs, restaurants, and portable live applications. Pattern Control horns, midrange compression loudspeakers and components for engineered sound systems.
See full listing under **Pro Audio Sound Systems & Products**

Compact Monitor Systems Corp., P.O. Box 1965, Studio City, CA, 91604, 818-763-8000

DCL Company, 6340 S.W. 145th St., Miami, FL, 33158, 305-232-2199

Dean Markley Electronics Inc., 3350 Scott Blvd., Suite 45, Santa Clara, CA, 95054, 408-988-2456, 800-538-8330
President: Dean Markley
Executive V. P.: Bari Wilson
Nat'l Sales Manager: Tom Dreibelbis
Products: professional audio sound systems and support, powered and non-powered mixers, powered and unpowered enclosures, power amps, microphones, cables and accessories.
See full listing under **Pro Audio Sound Systems & Products**

Design Direct Sound, 6850 35th N.E., Suite 1, Seattle, WA, 98115, 206-527-4371
President: Bob Rice
Vice President: Pat Peterson
Vice President: Marc Hall
Marketing: Mark Dodge
Products: Walker/DDS 80 Series mixing desk is an 8 buss board with a 10 X 8 matrix output, resulting in 18 balanced outputs. The 80 Series offers many of the benefits of full blown 8 buss boards with substantial savings.
See full listing under **Pro Audio Sound Systems & Products**

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL, 60174, 312-584-2300
President: Jack Stone
Marketing Mgr.: Craig Lyons
Distributor Sales Mgr.: Doug Fellabaum
Service Manager: Cliff Carlson
Division General Mgr.: Steve Deppe
Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.
See full listing under **Portable Sound Systems**



Eastern Acoustics Works, 59 Fountain St., Framingham, MA, 01701, 617-620-1478
President: Kenneth Berger
V.P. Engineering: Kenton Forsythe
V.P. Marketing: Frank Loyko



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When it comes to sound, some people get a little funny about the point blank truth, in that they don't want to hear it.

They've come to expect that low end bump around 200 Hz because it makes the kick drum punchier, or they like the phase irregularities of the typical tweeter because the highs are all *tst-tst*.

At Fostex, we believe that truth is stronger than fiction. That's why we made the RM-Series. Point Source. Phase Coherent. Near Field.

They are reference monitors. They tell you exactly what you have and let you hear precisely what you're doing. Period. With neither apologies nor pamperings. Just the point blank truth.

What's more, when you mix with RM-765s or 780s, tape playback remains relatively the same from studio mains, to home stereo to car.

How many times have you heard just the right sound on a mix, only to find a completely different sound when you hear the tape on other monitors?

When you work with sound, you need a truthful reference. One that lets you hear the misses as well as the hits.

We encourage you to audition these Fostex reference monitors with a known source. Because we're confident that you'll know the truth when you hear it.

Point Blank.

World Radio History

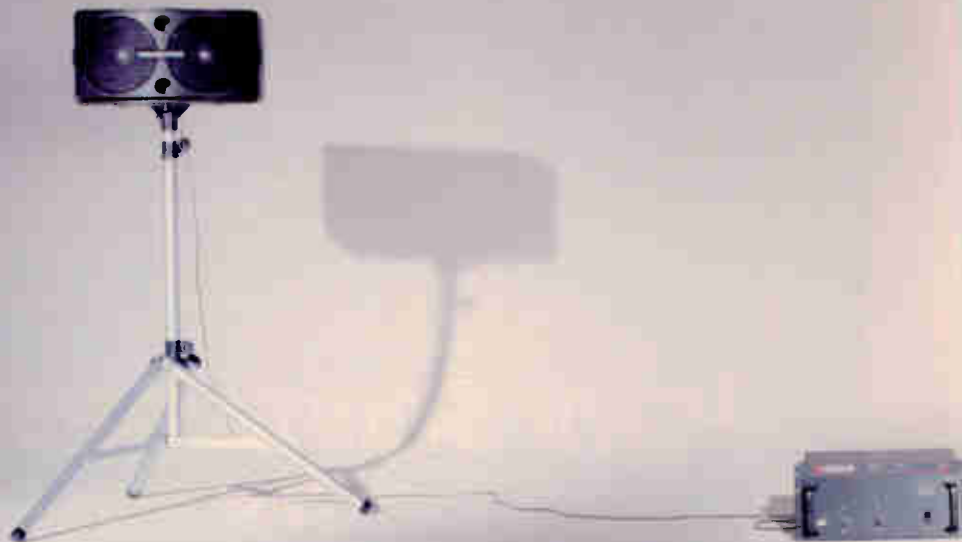


RM-765/780

Fostex

Pro Sound Division
15431 Blackburn Ave.
Norwalk, CA 90650
(213) 921-1112

To solve the most in sound reinforcement uncommon



We've seen and heard what's out there and, frankly, we are not impressed.

Of course, this comes as no surprise to anyone familiar with Celestion. We remain wary of conventional thinking because, too often, ordinary solutions produce only the most common results.

Let's face it. Anyone genuinely committed to high quality sound reinforcement must feel a real, almost tangible need to improve the status quo. Here are the 1980s and supposedly "full-range" systems are still large, heavy boxes crammed full of drivers, crossovers and God knows what kind of miscellaneous hardware.

What it is. Because sound quality doesn't improve exponentially with increased cabinet size and system complexity, we thought: "Simple, accurate, and *small*." A compact and true full-range system able to reproduce music at supersonic volume levels with absolute fidelity and full low frequency impact.

Too much to ask? We don't think so, though it wasn't easy. Well into it, we realized our goals actually compelled us to

redesign the conventional driver. Only this would allow the Celestion *SR1 speaker cabinet* to function with just two 8" drivers, free from the typically massive array of specialized units and crossovers.

First you notice the sound. The difference is dramatic, even breathtaking: clear, natural and unusually discrete reproduction of any program material. Deep, fundamentally powerful lows. Brilliant, clarion highs. Audio quality of such transparency that one never tires of listening.

How we did it. The success of the SR system is based on the realization that


you actually *can* build a single 8" integrated dome/cone driver with an expansive frequency response of 50 Hz to 20 kHz. Putting our oft-mentioned but sadly misunderstood Laser Interferometry mapping system to this purpose, we built one.

Now, just think beyond the immediate sonic impact of the SR1 cabinet to the practical benefits derived from single point source drivers. No intermodulation distortion typical of crossovers, no phase-/time- coherence problems or coaxial coloration. In general, fewer things to go wrong.



SR1 Speaker Cabinet

common problems we had to design a most speaker system.



How we protect it. No matter how good, or how simple, a speaker system is of little value when it becomes yet another downtime statistic on the road. With this in mind, we designed the "thinking" *SRC1 electronic controller*. It carefully monitors amplifier distortion and

voice coil temperature. Circuitry senses potentially damaging low frequency transients and inaudibly compresses them before instantly restoring complete low end power.

The result? Deep, visceral low end impact and miraculous clarity, while you bask in the knowledge that the speakers are completely protected from thermal or mechanical failure and amplifier distortion. The optional *SR2 subwoofer*, easily capable of handling 1000 watts RMS, accurately reproduces ultra low frequencies from 40-150 Hz at maximum volume.

How we package it. Eminently transportable, SR1 cabinets are made of rigid and durable non-resonant high-density polymers to better isolate the sound and protect internal components from external damage. Fitted with flexible mounting options, they are easily integrated into any sound reinforcement setting. Internally, the speakers are resistant to humidity and

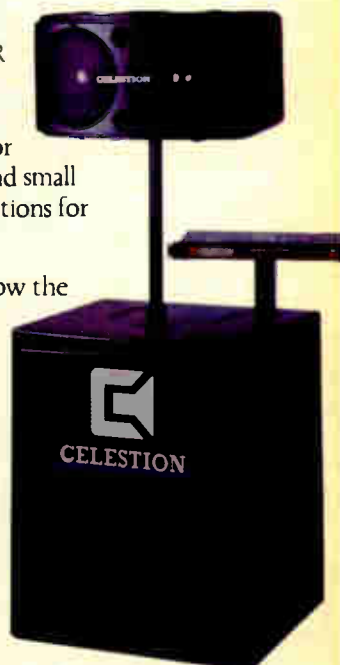
adverse weather conditions because of our sealed hard dome tweeter design, and the fact that we impregnate the paper cones with special waterproofing agents.

What is it good for? The SR system radically upgrades the audio quality of many critical sound reinforcement applications, like near-field monitor systems (drums, keyboards and vocals) and small group PA. Not to mention sound installations for clubs, bars, restaurants and auditoriums.

Why we did it. Because we know the potential for better sound exists, even in the none too imaginative arena of sound reinforcement. And that only by risking uncommon solutions could we solve problems common to us all while maintaining our own high standards.

CELESTION

Celestion Speakers, Kuniholm Drive, Box 521,
Holliston, MA 07140 (617) 429-6707



Circle 229 on Reader Response Card

SR1 Speaker Cabinet, SRC1 Controller
with optional SR2 Subwoofer

Sales Administrator: Daniel McDonald
Other Personnel: Max Berger
Products: precision-crafted professional loudspeaker products including full-range systems, bass and mid-bass horns, drivers, and studio monitor systems.
District Offices:
Marketing Concepts, Dallas, TX, 214-869-0669
Kevin Talmant Assoc., Madison, IN, 812-866-5533
Elrep, Atlanta, GA, 404-938-7108
GMI, Avon, MA, 617-588-8043
World Wide Electronics, Miramar, FL, 305-966-6622

Eden Electronics, Inc., 1st St., PO Box 338, Montrose, MN, 55363, 612-675-3650
President: David D. Nordschow
Products: pro audio sound systems including constant directivity horns and mid-bass devices; small to large 2-way, 3-way, and 4-way systems for PA and music play-back; touring systems; stage monitors; passive crossovers; custom enclosures.
See full listing under **Pro Audio Sound Systems & Products**

Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831
President: Robert D. Pabst
V.P. Sales and Marketing: Paul McGuire
Director of Marketing: Jim Long
Chief Engineer: Earl Harris
Products: public address and component high-fidelity loudspeakers and systems, high-performance compression drivers, horns, low-frequency systems, mixers, mixing

consoles, signal processors and crossover networks.
See full listing under **Pro Audio Sound Systems & Products**

Electronic Systems Group, Inc., 4405 Vineland Rd., St. C-8, Orlando, FL, 32811, 305-423-2363
Products: outdoor speakers that are buried in the earth.

Emilar, 1365 N. McCan St., Anaheim, CA, 92806, 714-632-8500

Eminence, 4237 W. 42nd Pl., Chicago, IL, 60632, 312-927-3715

Environmental Sound, 31220 La Baya Dr. Boulevard, Suite 110, Westlake Village, CA, 91362, 818-706-0228, TLX: 299353 POST UR, FAX 818-889-5605
President: Pascal Delbuck
Mkt'g Director: Ron Glathoffer
Advertising Mgr.: Dean McEntyre
Chief Engineer: Pascal Delbuck
Plant Manager: Bill Ward
Products: PRO DROP CEILING MONITOR I; 8" 2-way isosceles cabinet for multiple mounting applications/theater reinforcement, churches, nightclubs; ES-Series includes ES-502, ES-602, ES-802, ES-1002, ES-2802 our Flush Mount Loudspeakers have multiple mounting offering a variety of grille and matching baffle colors for architectural and interior designers that require high power audiophile custom home loudspeakers.
See full listing under **Pro Audio Sound Systems & Products**

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317-336-5114

Fostex Corp. of America, 15431 Blackburn Ave,
Norwalk, CA, 90650, 213-921-1112

President: Y. Abe

V.P. General Manager: Fred Huang

V.P. Sales/Marketing: Mark Cohen

National Sales Manager: Mike Flynn

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components from 18" to super tweeter, excellent moni-

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See full listing under **Pro Audio Sound Systems &**

Products

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President: J. M. Fulkerson II

Director of Sales: M. W. (Bud) Frawley

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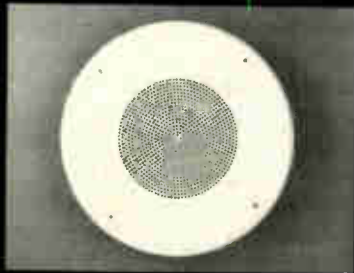
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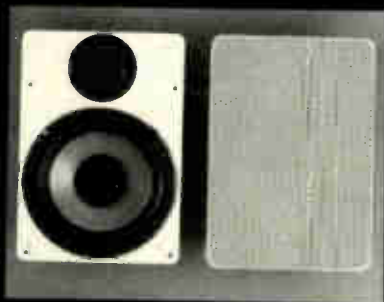


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Frazier, A Division of Sound-Craft Systems, Inc., Petit Jean Mountain Rt 3, Box 319, Morrilton, AR, 72110, 501-727-5476, 800-643-8747

Marketing: Earle Love

Sales Manager: Hank Shaw

Secretary/Treasurer: Katherine Foust

V.P. Sales & Marketing: James Truelsen

Sr. Engineer: Jay Mitchell

Products: premium sound reinforcement loudspeaker systems featuring coincident-aligned transducers which offer superior frequency response and intelligibility and greater utility in a variety of light-weight compact designs. An exclusive mounting system minimizes installation time.

Galaxy Audio, 625 East Pawnee, Wichita, KS, 67211, 316-263-2852

Manager: R. D. Moneyhun

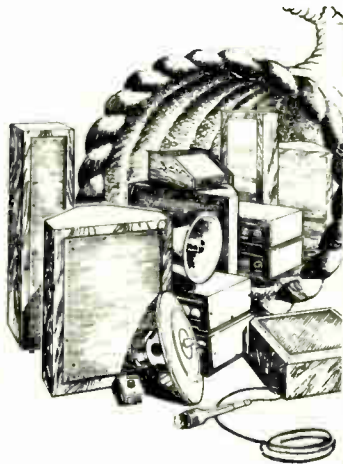
Products: Hot Spot Monitors - Hot Spot P.A. monitor/portable P.A. - Pro Spot Speakers/stage monitors - mixers, 8, 12 and 16 channels.

See full listing under **Pro Audio Sound Systems & Products**

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Sound & Communications

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Chief Engineer: Todd Adams
Office Manager: Mrs. Tiny Brown
Products: wall baffles, speakers, ceiling grills, sound columns, transformers for the background music and paging industry.

Gollehon Industries, Inc., 3105 Madison Ave. SE, Grand Rapids, MI, 49508, 616-247-8231

Gotham Audio Corp., 1790 Broadway, New York, NY, 10019-1412, 212-765-3410
President: Russ R. Hamm
Eastern Sales Mgr.: Jerry Graham
Western Sales Mgr.: Juergen Wahl
Sales Engineer: Peter Engel
Products: Neumann condenser microphones, limiters/compressors, and equalizers and accessories; EMT digital delays; Gotham audio cable; K & H loudspeakers, and parametric equalizers; Audio Developments mixers; NTP limiters/compressors and meters.
See full listing under **Microphones**

Harris Corporation, Dracon Division, 809 Calle Plano, Camarillo, CA, 93010, 805-987-9511
V.P. Gen'l. Mgr.: John R. Mason
Dir., Domestic Sales: Tom Erdmann
Chief Engineer: Tom Durston
V.P. Sales & Mkt'g.: Jack McGuigan
Products: PAGEPAC telephone integrated loudspeaker paging voice systems, linemen's test sets, craft tools, extensive line of relay racks.

See full listing under **Paging Systems**

Hirschmann of America, P.O. Box 229, Industrial Row, Riverdale, NJ, 07457, 201-835-5002, 800-225-0524
Sales Manager: Andy Swenson
Products: Visonik "David" family of monitor mini-speakers, Hirschmann fiber optical transmission systems for audio, video and data up to 4 miles.

Intersonics, Inc., 3453 Commercial Ave., Northbrook, IL, 60062, 312-272-1772
President: Dr. Charles Rey
Acoustical Engineering: Thomas Danley
Sales Manager: Tom Melzer
Products: Servodrive Subwoofers(SDL), featuring the new line of SDL-series subwoofers. These are run by a hi-tech servomotor and a rotary-to-linear converter, no coice-coils. An active cooling system eliminates output loss caused by heat - an industry first.
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Audio Mkt'g, Brecksville, OH, 216-526-2426
Audio Resources, Westmont, IL, 312-655-1180
Rep Tech, Terrell, TX, 214-222-2131
Darmstedter Assoc., Baldwinsville, NY, 315-638-1261
Pacific Audio Group, Torrance, CA, 213-375-2611
Meyer Marketing, Deerfield, FL, 305-481-9250
Prof. Sound Products, Lakewood, CO, 303-986-5999
Innovated Audio Sales, Pontiac, MI, 313-673-2280

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See full listing under **Audio Amplifiers**



JBL Professional, 8500 Balboa Blvd, Northridge, CA, 91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

Market Manager/Sound Contracting: Steve Romeo

Products: loudspeakers and loudspeaker systems of all kinds; automatic microphone mixer; electronic crossover; special loudspeakers for musical instruments; video projector.

District Offices:

Neil Conly, Bedford, TX, 817-540-3066

Bill Hamilton, Folsom, PA, 215-543-4677

Steve Armstrong, Northridge, CA, 818-707-2529

Steve Armstrong, Northridge, CA, 818-707-2529

Joe's Sound and Salami Co., 981 S. Broad St., Trenton, NJ, 08611, 609-394-5637

Klark-Teknik Electronics, Inc., 30B Banfi Plaza N, Farmingdale, NY, 11735, 516-249-3660

President: Jack Kelly

Sales Manager: Keith Worsley

Salesman: Harry Klane

Service Manager: Jim Jacobelli

Products: 1/3 and 2/3 octave graphic equalizers, parametric equalizers, digital delay lines, digital reverberation systems, sound masking processors, reference monitors, 1/3 octave RTA w/RT-60 measurement capabilities, BSS crossovers, compressor/limiter, MIDI noise gate, mic splitter, ancillary equipment.

See full listing under **Audio Signal Processors**

Klipsch & Assoc., PO Box 688, Hope, AK, 71801, 501-777-6751

Vice President: Jerry Werner

National Sales Mgr.: P. Woody Jackson

Int'l Sales Manager: Jack Fountain

Sales Engineer: Tracy Crawford

Products: professional loudspeaker systems for professional installation or portable use. Wide range of size and applications featuring high output, high fidelity, and low distortion.

LAR Sound, 718 Ninth St., Niagara Falls, NY, 14301, 716-282-2442

President: Lawrence Kutner

Products: loudspeaker assemblies for hi-fi and commercial/pro sound application, 6" to 18" low-frequency assemblies, patented "Ferralipse" 140° dispersion high frequency component.

District Offices:

Wood & Co., Buffalo, NY, 716-886-0019

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President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: communication and security for apartment house, home and, industry. Intercom, music and paging systems, mailboxes, directories, annunciators, signaling devices, communications cable, nurse-call systems, Interview audio/visual intercom systems.

See full listing under **Intercom Apartment/Residential**

Len Finkler Company, 80 Alexdon Road, Downsview, Ontario M3J2B4, 416-630-9103

Products: amplifiers, speakers for ceiling, & wall bafflers.

See full listing under **Pro Audio Sound Systems & Products**

Lowell Manufacturing Co., 3030 Laclede Sta. Road, St. Louis, MO, 63143, 314-781-9058, 800-325-9660

Chairman: Ben W. Lowell

President: Dorothy H. Lowell

Sales Manager: John J. Lowell

Sales: Wilhelm R. Lowell

Engineering: Karl R. Schneider

Products: loudspeakers, baffles, enclosures, mounting devices, attenuators, UL 8" speaker assemblies, sound masking speakers, blank and custom rack panels, custom fabrication services.

See full listing under **Loudspeaker Accessories**

Martin America, PO Box 5139, Chatsworth, CA, 91313, 818-718-1031

McCauley Sound, Inc., 13608 94th Ave. E., Puyallup, WA, 98373, 206-848-0363

Pres./Sales Mgr.: Tom McCauley

V.P./Production: Pete McCauley

Products: a complete line of touring and commercial loudspeaker systems. They feature a high powered series of low-, mid-, and high-frequency loudspeakers and compression drivers, as well as CD horns, passive networks, and enclosure hardware.

See full listing under **Pro Audio Sound Systems & Products**

Meyer Sound Laboratories, Inc., 2832 San Pablo Ave., Berkeley, CA, 94702, 415-486-1166

President: John Meyer

Vice President: Helen Meyer

Mkt'g/Sales Manager: Gary Hudson

Products: complete line of professional loudspeakers, amplifiers, and electronics for sound reinforcement and studio applications.

MG Electronics, 32 Ranick Rd., Hauppauge, NY, 11788, 516-582-3400, FAX: 516-582-3229

President: Louis Maltz

Vice President: Elliott Maltz

Sales Manager: Stan Grey

Products: commercial sound and security speakers, paging horns, electronic sirens, general replacement speakers, OEM speakers (custom design available), foreground music speaker systems, and toggle switches.

District Offices:

Miller Assoc., Stamford, CT, 203-869-7793
Forti Assoc., Kensington, MD, 301-949-1706
Raliegh Perry Assoc., Buford, GA, 404-945-3142
Miller & Assoc., Richardson, TX, 214-437-5733
Bob White Assoc., Solon, OH, 216-248-1317
Misco/Minneapolis Speaker Co., 3806 Grand Ave.,
Minneapolis, MN, 55409, 612-825-1010

President: Cliff Digre

Sales Manager: Don Ringham

Chief Engineer: Cliff Digre

General Manager: Dan Digre

Products: complete line of loudspeakers, ceiling baffles, and transformers for commercial sound applications, waterproof, special impedance, coaxial, voice communications, and custom design.

World Wide Electronics, Pembroke Pines, FL, 305-584-7024

District Offices:

Lichtenauer & Assoc., Antioch, CA, 415-757-1200
Dick Bellew Sales, Dallas, TX, 214-644-7881
W.A. Hendrickson Co., Scituate, MA, 617-545-0652
Pacnor Marketing, Lynwood, WA, 206-771-6016

Modular Sound Systems - The Mitek Group, One Mitek Plaza, Winslow, IL, 61089, 815-367-3000

President/CEO: Loyd Ivey

V.P. of Manufacturing: Dave Smythe

Products: Bag End loudspeakers systems, custom cabinetry, rack-mount enclosures, and sound system design

District Offices:

Pete Kallaos, Creve Coeur, MO, 314-878-3365
Dennis Ramer, Walton, IN, 219-626-3115
Thom Fehrman, Winslow, IL, 815-367-3000
William Warnock, Barrington, IL, 312-382-4550

Motorola, Inc./Ceramic Products, 4800 Alameda Blvd. N.E., Albuquerque, MN, 87113, 505-822-8801

International Sales Mgr: Bob Munn

W. Reg. Sales Mgr.: Al Lowenstein

C. Reg. Sales Mgr.: Roger Milewski

E. Reg. Sales Mgr.: Don Bacso

Programs Cdr.: Cheryl Iverson

Products: piezo speakers and tweeters for sound reinforcement designs, voice warning systems, paging systems and associated alarm and siren applications. Harsh environment and water resistant devices are available.

District Offices:

Motorola, Inc./Ceramic Products, Albuquerque, NM, 505-822-8801

Motorola, Inc./Ceramic Products, Parma, OH, 216-267-2210

MTX Loudspeakers - The Mitek Group, One Mitek Plaza, Winslow, IL, 61089, 815-367-3000

President/CEO: Loyd Ivey

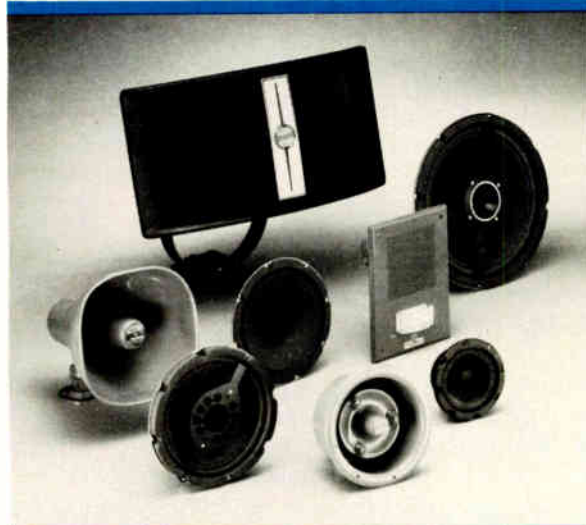
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World Radio History

speaker systems; PA systems, speakers for commercial installations: foreground and background music systems, horns, drivers, complete line of home, automotive speakers.

District Offices:

Pete Kallaos, Creve Coeur, MO, 314-878-3365

Dennis Ramer, Walton, IN, 219-626-3115

Thom Fehrman, Winslow, IL, 815-367-3000

William Warnock, Barrington, IL, 312-382-4550

Music Supply Co., Inc., 809 N. Madison, Dallas, TX, 75208, 214-946-8450, 800-527-1522

President: W. E. Brown

Sales: Betty Brown

Products: installation and service aids for the sound contractor and background music operator.

See full listing under Hardware & Tools

Oaktron Industries, Inc., 1000 30th St., Monroe, WI, 53566, 800-257-4538

President/CEO: Jerry Disch

Executive V. P.: Bob Taller

V. P. Sales: Jim Hendrickson

Products: commercial loudspeakers and accessories, sound masking speakers. Background and paging systems and a total line of accessories.

Olson Acoustics, 920 Grayson St., Berkeley, CA, 94710, 415-644-2500

Orevox Corp., 512 35th St. NE, Auburn, WA, 98002, 206-735-0220, 800-237-0700

CEO: Daniel Wu

Sales Mgr.: Russ Stanford

Products: loudspeakers specializing in foreground speakers, outdoor paging and intercom speakers, self-contained sirens, metal siren/speaker enclosures, and metal utility cabinets for residential and commercial applications.

OWI, Inc., 1160 Mahalo Pl., Compton, CA, 90220, 213-638-4732

Director of Marketing: Ned Morioka

V.P. Engineer: Hiro Okayama

Products: Full line: Hi fidelity mini speaker (2-way or 3-way) s/built-in 70V or 25v line transformer with selector switch 2.5, 5, 10, or 15 watts. Weatherized/standard systems for foreground and background applications.

PA Concepts, 450 Taft Drive, South Holland, IL, 60473, 312-339-8014

speaker wonderbox.

Panasonic Industrial Company/Ramsa, 6550 Katella Ave, Cypress, CA, 90630, 714-895-7272

National Marketing Mgr.: Steve Wooley

Products: Ramsa, the professional audio division of Panasonic Industrial Company's Audio/Video Systems Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Paramount Sound Systems, 5555 Melrose Ave., Los Angeles, CA, 90038, 213-468-4601

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365

Prod Mgr/Sound Reinf.: Hollis Calvert

Prod Mgr/Digital Product: Ken Valentine

Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.

See full listing under **Pro Audio Sound Systems & Products**

Poly-Planar Inc., 50 Graphic Place, Moonachie, NJ, 07074, 201-641-2206

President: Norm Lange

Products: polystyrene loudspeakers for foreground or background use. Units are totally waterproof, very thin & light in weight. Ideal for suspended ceilings, outdoor or high humidity use.

Portland Instrument, 1101A Air Way, Glendale, CA, 91201, 818-500-0137, TX-989-473

Portland
President: Ronald Fuller

Prod. Mgr./Outdoor Sys.: Hendri Smit

P. R. Cable Assembly: Jack Sympton

Prod. Mgr./Indoor Sys.: Jack Sympton

Production Manager: Scott Teffin

Products: Paramount pictures "omnispeaker" an outdoor waterproof landscape speaker for background music and paging, 80 Hz to 18 KHz, 50 watts RMS. Also viro square & viro dome waterproof wall and pole mount, 70V and 8 Ohm versions of outdoor speakers.

District Offices:

C. L. Pugh & Assoc., Cleveland, OH, 216-238-1777

Chuck Milck, Southfield, MI, 313-354-3310

Dick & Roy Pass, Langhorne, PA, 215-757-6100

Brian Rumohr, Ontario, Canada, 416-625-4527

Ed Wolf, Atlanta, GA, 404-455-0672

Professional Audio Systems (PAS), 1224 West 252nd St., Harbor City, CA, 90710, 213-534-3570

Products: a high performance loudspeaker system that will blend with the decor of your installation; co-axial loudspeakers with constant-coverage horn, trapezoidal enclosures can be arranged for 360° coverage. TOC™ Time Offset Correction in both passive and active crossovers.

District Offices:

Innovative Audio Sales, Pontiac, MI, 313-673-2280

Clearview Marketing, Forest Hills, NY, 718-592-0710

Professional Audio Assoc., Burlington, MA, 617-229-6050

MBT, Pittsburg, PA, 412-344-1360
 Applied Audio, Ashville, NC, 704-252-9313
 Music Sales Unlimited, Orlando, FL, 305-898-6645
 Stan Sliz Assoc., Broomfield, CO, 800-525-2670
 Tenicki Assoc., Houston, TX, 713-528-2005
 Innovative Sales & Marketing, Fountain Valley, CA, 714-549-7770
 Future Sales, Redmond, WA, 206-868-5577
 Charlie Winkler & Assoc., Uniontown, OH, 216-699-9511
 Wayne Fuday, Fairfax, CA, 415-459-6880

Projected Sound, Inc., 469 Avon Ave., Plainfield, IN, 46168, 317-839-4111
 President: F. O. Hilligoss
 Vice President: Thomas Hilligoss
 Vice President: Forest O. Hilligoss
 Secretary/Treasurer: J. Mark Hilligoss
 Products: loudspeakers.

Pyle Industries, Inc., 501 Center St., Huntington, IN, 46750, 219-356-1200

Quam-Nichols Co., 234 E. Marquette Rd., Chicago, IL, 60637, 312-488-5800
 President: W.G. Little
 Distributor Sales Mgr.: G.L. Johns
 Chief Engineer: Oswald Rohrbacher
 Products: loudspeakers, ceiling baffles, line matching transformers and back box enclosures for background music, public address system and other commercial sound applications, and attenuators.

See full listing under **Back/Foreground Systems Libraries**

Red Acoustics (USA) Ltd., 1231 Roth Dr., Lansing, MI, 48911, 517-694-3618
 President: Thomas E. Cooley
 Chairman of the Bd.: D. Bruce Stratton
 Internat'l Sls Mgr.: Daniel G. Vartanian
 Director of Corp. Admin.: Jill E. Cooley
 Products: range of active and passive RED loudspeaker systems with complimenting accessories. Applications in all areas of professional use. Distributorships available.

Renkus-Heinz, Inc., 17191 Armstrong Ave., Irvine, CA, 92714, 714-250-0166, FAX: 516-767-9335
 President: Harro K. Heinz
 Dir. of Mkt'g.: G.R. "Russ" Farrell
 Nat'l. Sales Mgr.: Greg McLagan
 Products: compact processor-controlled sound reinforcement systems providing studio monitor sound quality at high SPL. Performance-ready systems including power racks & cabling are factory assembled and tested, and have multiple speaker protection features.
 See full listing under **Pro Audio Sound Systems & Products**

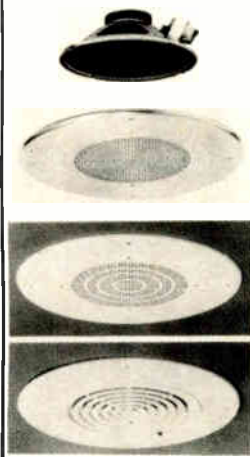
Ring Group of North America, Inc., 230 Community Drive, Great Neck, NY, 11021, 516-487-0250, 800-645-9690
 Chief Operating Officer: Paul Ruggieri
 Vice President: Peter McLean

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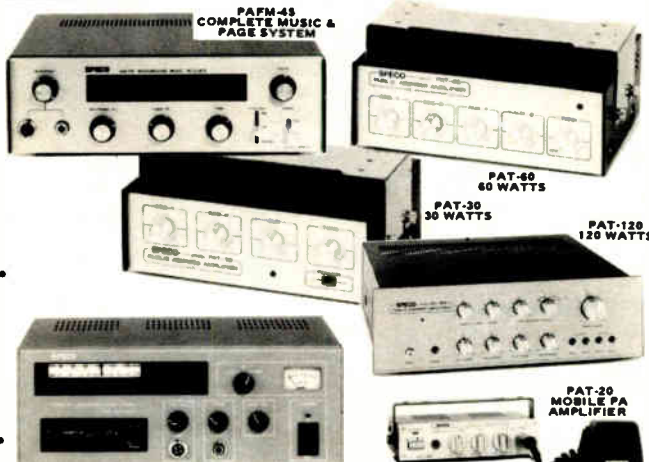
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World Radio History

Sales & Material: Craig Krsanac
 Technical: John Camello
 Software: Chris Gruber
 Products: hands free intercom systems, microprocessor, field programmable interface with telephone, paging, alarm systems, school and annunciator communications systems-simplex and microprocessor operation. Speakers, amplifiers, and baffles.
 See full listing under **Intercom Duplex**

Rockustics Inc., 41 E. Main St., Bayshore, NY, 11706, 516-665-6497

President: Anthony F. Mule
 Vice President: Bruce R. Marcel
 Secretary: Thomas S. Maxey
 Products: full fidelity, simulated stone, outdoor speaker systems. Completely water and weatherproof.
 District Offices:
 Metro Rep Sales, Inc., Freehold, NJ, 800-526-2331
 Benesik Assoc., Ocala, FL, 904-732-9775
 Asoteric Mkt'g, Pasadena, CA, 714-964-4433
 Audio Mkt'g Assoc., Brecksville, OH, 800-331-8478
 S & F Northwest Inc., Seattle, WA, 206-525-5203

San Ming Sound Co., 5282 Research Avenue, Huntington Beach, CA, 92649, 714-891-2252
 Sales/Marketing: Leon C. Hsieh
 President/General Mgr.: Hugh C. Hsieh
 Chief Engineer: S. W. Hsu
 Products: high intelligence multi-tap paging horns. Heavy-duty driver units for PA and siren applications. Extra-heavy-duty driver horns for community warning systems,

megaphones.
 District Offices:
 Forti Assoc. Inc., Kensington, MD, 301-949-1706
 Henry W. Phillips Co., Inc., Roswell, GA, 404-992-3070
 Design Factors, La Habra Heights, CA, 213-697-7576
 Weller Electronic, Columbus, OH, 614-885-7819
 Robert Milsk Co., Inc., Indianapolis, IN, 317-842-3400

SOUNDSPHERE

Sonic Systems Inc., 737 Canal St., Bldg. 23B, Stamford, CT, 06902, 203-356-1136
 President: Peter Hamilton
 V. P. Marketing: John J. Karamon
 V. P. Special Projects: Carl N. Erca
 Products: six models of soundsphere loudspeakers for use in churches, gymnasiums, shopping malls, airports, auditoriums, and other locations that require sound reinforcement.

Sony Professional Audio, 1600 Queen Anne Road, Teaneck, NJ, 07666, 201-833-5200
 President: William G. Connolly
 Vice President: Jerry Smith
 Products: analog and digital audio recorders, compact disc mastering systems, mixing consoles, microphones(wired and wireless), monitoring equipment and public address systems.
 See full listing under **Pro Audio Sound Systems &**



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Whether for external or internal applications, OWI-702 and BAP-101 is a 2-way mini extension speaker system designed for high fidelity sound performance and easy installation. Available in colors Black or Cream.

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Really, there's nothing we can say about our JF-500 that will induce you to buy it except this: try it. Because the evidence provided by your own two ears will be, as it should be, far more convincing than anything you'll read here.

True, we invented the horn-loaded single-box reinforcement system over a decade ago. True,

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Eastern Acoustic Works, Inc., 59 Fountain Street, Framingham, MA 01701 • (617) 620-1478

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Products

Sound Development Industries, 428 Ft. Denaud Rd., La Belle, FL, 33935, 813-675-0100, 800-675-3656

Owner: Uolevi L. Lahti

CE David Friday

Products: AI-10 drawn stainless steel speaker systems utilizing the patented pressure-velocity principle coupled with a high-compliance five-inch driver with a 3/4 pound magnet, applications include masking, music, and paging.

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN, 55144-1000, 612-733-0447

Marketing Manager: Don Rada

Sales Manager: Don Sluder

Products: music libraries for all purposes. Players, industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems.

Microphones, amplifiers and other sound system components.

See full listing under **Back/Foreground Systems Libraries**

Soundscape Speakers, Inc., 4405 Vineland Rd., Ste. C-8, Orlando, FL, 32811, 305-423-2363

President: Martin Collins

Project Engineer: Robb Resler

Products: outdoor loudspeakers for direct burial in gardens. Five year warranty, weatherproof, small size, and high fidelity. Used in major theme parks nationwide.

SpeakerCraft, 3615 Presley Avenue, Riverside, CA, 92507, 714-787-0543

Products: plate speakers (5-6" two-way) for surface mount applications.

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.

See full listing under **Audio Amplifiers**

Spectra Sonics, 3750 Airport Rd., Ogden, UT, 84405, 801-392-7531

President/Owner: William G. Dilley

Engineer/Sales: Gregory D. Dilley

Products: amplifiers, mixers, equalizers, compressor/limiters, power supplies, speaker systems, and consoles. We specialize in sound reinforcement equipment.

See full listing under **Pro Audio Sound Systems & Products**

St. Louis Music, 1400 Ferguson Avenue, St. Louis, MO, 63133, 314-727-4512

Sales Training Dir.: Tony Moscal

Product Manager: Gary Byers

Dir. of Operations: John Karpowicz

President: Gene Kornblum

Products: musical instrument amplifiers, sound reinforcement equipment, mixing consoles, loudspeakers, power amplifiers.

See full listing under **Pro Audio Sound Systems & Products**

Studer Revox America, Inc., 1425 Elm Hill Pike, Nashville, TN, 37210, 615-254-5651

V. P./Gen. Mgr.: Thomas E. Mintner

Dir. of Prof. Products: David C. Bowman

Products: audio recorders - super low speed loggers and playback only machines to 2-inch multichannel; professional CD players & cassette recorders; computer controlled automation interface; mixing consoles - 19-inch & portable units to complete studio systems; amplifiers & loudspeakers.

See full listing under **Pro Audio Sound Systems & Products**

Sunn, 1130 Columbia Street, Brea, CA, 92621, 714-990-0909

President: Bill Schultz

Director of Mkt'g: Joe Green

National Sales Mgr.: Don Johnston

Products: sound reinforcement products include: powered and non-powered mixers, mixing consoles, power amplifiers and speaker enclosures. Professional stage lighting products.

See full listing under **Pro Audio Sound Systems & Products**

Tannoy North America Inc., 300 Gage Ave. Unit-1, Kitchener, Ontario, Canada, N2M 2C8, 519-745-1158

Marketing Mgr.: Bill Calma

Sales Mgr.: Rob Hofkamp

Credit Mgr.: Kathy Kent

Products: dual concentric studio and broadcast reference monitors and amplifiers, wildcat professional P.A. for MI and for contractor applications.

District Offices:

Audio Assoc., Glenwood, MD, 301-854-6122

Hot House Marketing, Highland, NY, 914-691-6077

Disc Mastering, Nashville, TN, 615-254-8825

Technical Marketing, Atlanta, GA, 404-457-0988

GMI Marketing, Avon, MA, 617-588-8043

World Wide Electronics, Pembroke Pines, FL, 305-

Pro Tech Marketing, Newport Beach, CA, 714-650-5633

Power Lines Marketing, Chicago, IL, 312-864-1147

Black Hawk Marketing, Pacific Palisades, CA, 213-454-8196

JMS Marketing, Austin, TX, 512-266-1113

Technical Audio Devices (TAD) Pioneer Electronics (USA), Inc., 2265 E. 220th St., Long Beach, CA, 90810, 213-835-6177

V.P. Marketing: Mike Fidler

Sr. Mgr. Product Planning: Mark Makabe

Market Planner: Deanna Lee

Products: specializing in speaker components designed for professional applications such as recording studios, sound reinforcement systems, PA and concert-hall audio systems, and other places where dependable, highly specialized components are required for the reproduction of sound.

District Offices:

T.C. Marketing, Woodland Hills, CA, 818-710-9580
Secom Systems, Doraville, GA, 404-455-0672
Bensik Assoc., Ocala, FL, 904-732-9775
Marketing Concepts, Irving, TX, 214-869-0669
Powerlines Marketing, Evanston, IL, 312-864-1147

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Turbosound, Inc, 611 Broadway, #841, New York, NY, 10012, 212-460-9940

President: Alan Wick

V. P. Sales/Mkt'g: Dan Abelson

V. P. Operations: Hilary Michener

Products: Turbosound loudspeaker enclosures utilize patented principles to provide the installer pre-engineered loudspeaker systems complete with certified rigging hardware designed for ease of install and safety.

District Offices:

Western Audio Sales, Glendale, CA, 818-246-3806
Applied Audio Marketing, Asheville, NC, 704-252-9313
Michael Chafee Assoc., Sarasota, FL, 813-921-4294
Tenicki and Assoc., Houston, TX, 713-528-2005
Audio Assoc., Baltimore, MD, 301-854-6122
Northmar, Seattle, WA, 206-524-5170
Steffey Marketing, Northbrook, IL, 312-480-3575
Jamm Distributing, Matteson, IL, 312-747-6363
AMH Sales, Denver, CO, 303-429-2203

UNIVERSITY SOUND, Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Chief Engineer: Earl Harris

Marketing Mgr., Commercial Products: W. Douglas Wilkens
Products: complete commercial sound line includes horns public address, and explosion-proof drivers, paging/talk-back speakers, weatherproof high-fidelity systems, submergence-proof and underwater speakers, and transformers.

District Offices:

George M. Conneen Co., Inc., Springfield, PA, 215-544-5884

Metropolis Audio Marketing, Inc., Edison, NJ, 201-225-

SOLVING SOUND PROBLEMS WITH SOUNDSPHERE

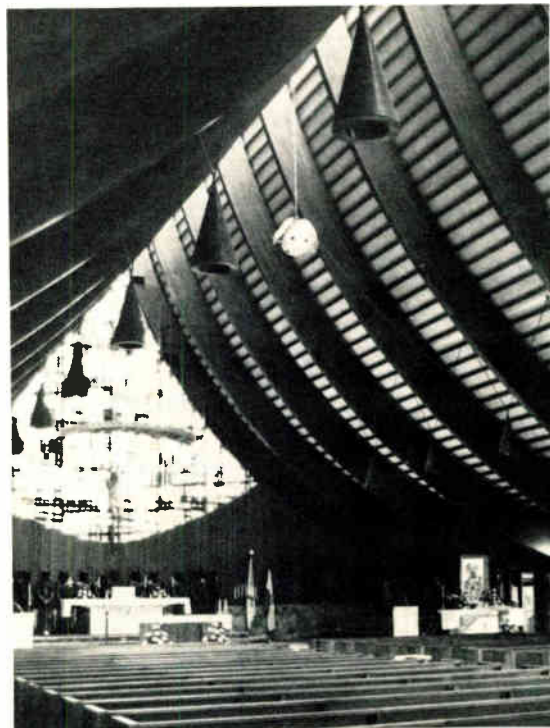
“Rev. Clifford Ruskowski, Vice Chancellor of the Our Lady of Orchard Lake Schools was delighted to discover that the installation of the correct product could solve the sound problems of the Shrine-Chapel. He stated, “a word about the Soundsphere system installed in our Shrine-Chapel: wonderful, magnificent. The clarity, the fullness, the sensitivity of the microphones and speakers have greatly enhanced our Liturgical celebrations. For years we labored under a sound illusion: that the architectural design of the building prohibited full and clear sound reproduction. How wrong we were! Faculty, students and our many guests to the campus this summer remarked about the quality of ‘our’ new sound system. It has made public prayer in the building an uplifting, joyous and total experience.” ▶

“Soundsphere loudspeakers have helped many churches solve difficult problems, like: reverberation, feedback, hot spots and dead spots. In many instances, one Soundsphere is installed and it operates as a single point source (the best approach for any highly reverberant location). Often one Soundsphere replaces many existing loudspeakers. In Pastor Stewart Yandle’s church, First Presbyterian Church, Monroe, NC., one #110 Soundsphere replaced seven loudspeakers. He writes...

“You must surely have worked a miracle with our public-address system. The response by the members of the congregation has been marvelous. Those persons who used to complain regularly about not being able to hear are actually praising the systems we are using now.

The first Sunday we used the system with the single Soundsphere there were many questions and compliments—I heard several say, ‘I just can’t believe that much sound comes from just one speaker.’

On behalf of this congregation I say, ‘Thank you very much!’ My own personal appreciation continues to increase the longer I use the system.”



If you wish to read more of Pastor Yandle’s letter, contact:

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R.J. Marketing Ltd., Rockville, MD, 301-251-0330
The Smith Company, Hartford, CT, 203-523-0512
Ron Tunks Sales, Inc., Tamarac, FL, 305-722-2803
Wilson Audio Sales, Nashville, TN, 615-646-4477
Audio Resources, Westmont, IL, 312-655-1180
B.C. Electronic Sales, Inc., Mission, KS, 913-262-1720
Jones Audio Sales, Plano, TX, 214-867-0202
C.L. Pugh & Assoc., Inc., Columbus, OH, 614-486-9678
Riley & Petchell Sales, Inc., Detroit, MI, 313-937-3000
Loppnow & Assoc., Redmond, WA, 206-883-3205
Radon & Assoc., Sacramento, CA, 916-923-2524
Silver Peak Marketing Ltd., Wheat Ridge, CO, 303-467-9042
Western Audio Sales, Glendale, CA, 818-246-3806

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411

President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Mkt'g. Mgr. Sound Contracting: Steve Romeo
Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.
See full listing under **Audio Signal Processors**

Valcom Inc., 1111 Industry Ave., Roanoke, VA, 24013, 703-982-3900
President: J.W. Mason
Sales Manager: Donald Buck
Chief Engineer: D. Lynch
Products: telephone integrated paging and intercom systems, talkback, bell-buzzer, code call, PBX adapters, key

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Sound & Communications

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See full listing under **Paging Systems**

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707

President: P. W. Tarlton

V.P. Mktg/Sales: W.L. Goldstein

V.P. Engineering: Stephan W. Andrews

Market Mgr. Tel./Paging: Art Arlow

Market Mgr. Life Safety/Ind.: Rein Haus

Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications.

Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.

See full listing under **Alarm & Security**

Wissco, 1599 Superior Ave., A-1, Costa Mesa, CA, 92627, 714-645-1281

President: J. Wanlass

Products: wireless microphones and receivers, power megaphones, sound lecterns, mobile sound systems, portable PA systems, mixers, speakers, telephone intercom systems, professional sound systems, amplifiers, power supplies, AC regulators, IR links.

See full listing under **Microphones**

Workman Electronic Products, P.O. Box 3828, 75 Packinghouse Rd., Sarasota, FL, 33578, 813-371-4242

Products: speakers, baffles, grilles, line transformers, L-pads, grilles and speakers and transformer combinations, baffles, speakers and trans. combinations; any combination is available.

LOUDSPEAKER ACCESSORIES

Acoustone Grille Cloth, 80 Wythe Ave, Brooklyn, NY, 11211, 718-782-5560

President: George Backer

Production Mgr.: Larry Lubliner

Office Mgr.: Al Allentoff

Order Dept.: Inge

Order Dept.: Judy

Products: acoustic and fire retardant fabrics, grille cloth, acoustic panel coverings, fire retardant wall coverings.

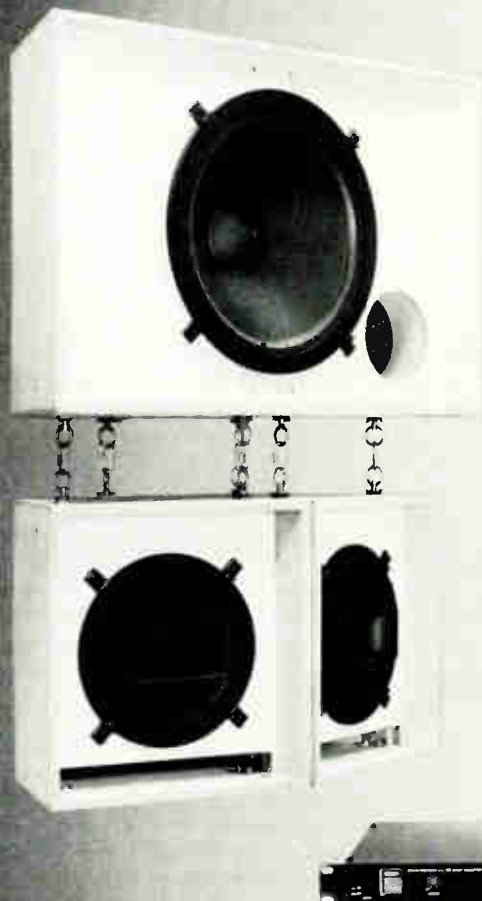
See full listing under **Acoustical Treatment**

AKG Acoustics, Inc., 77 Selleck St, Stamford, CT, 06902, 203-348-2121

President: Richard Ravich

Operations Manager: Derek Pilkington

Sales Manager: David Talbot



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Finland birch enclosure with a foam grille can be stained or painted to match the interior. Cosmetically pleasing aircraft flypoints provide a safe, painless installation.

Coaxial loudspeakers with **Constant Coverage** horn design provide extended high frequency control. **Dedicated System Processor with TOC™ (Time Offset Correction)** produces a near perfect phase response.

Trapezoidal enclosures can be arranged for 360 degree coverage. The 30 x 60 degree coverage angle can be implemented in either the vertical or horizontal by merely rotating the coaxial loudspeaker 90 degrees.

Available in either 12 inch (**PI12-2a/p**) or 15 inch (**PI15-2a/p**) enclosures. 18 inch subwoofer (**PI18-I**) can be used along with **PI-I System Processor**.

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Service Manager: John T. Pynch
Products: studio condenser microphones; prepolarized condenser microphones; professional dynamic microphones; wireless microphones, special purpose microphones, stereo microphones; headset microphones; stereo headphones; microphone stands; digital delays; digital reverbs; phonocartridges; and accessories.
See full listing under **Microphones**

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026, 314-349-3110

Director of Sales: Paul Grote
E. Region/Sales: Andy Musci
W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe
Products: decorative baffles, mounting rings and back-boxes for ceiling and wall installation. Indoor and outdoor vandal proof enclosures, surface-mounting baffles, line matching transformers, attenuators, loudspeaker stands and cost-efficient installation accessories.

See full listing under **Loudspeakers**

Bogen Communications, Inc., PO Box 575, 50 Spring St., Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems

and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.

See full listing under **Audio Amplifiers**

Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Director of Marketing: Jim Long

Chief Engineer: Earl Harris

Products: broadcast, recording, communications and PA microphones, public address and component high-fidelity loudspeakers and systems, high-performance compression drivers, horns, low-frequency systems, mixers, mixing consoles, signal processors and crossover networks.

See full listing under **Pro Audio Sound Systems & Products**

FM Tubecraft Support Systems Inc., 1121-26 Lincoln Ave., Holbrook, NY, 11741, 516-567-8588

Fourjay Industries, Inc., 3400 Stop Eight Road, Dayton, OH, 45414, 513-890-6444

President: J. M. Fulkerson II

Director of Sales: M. W. (Bud) Frawley

The Editors of ***Sound & Communications***
...are always looking for qualified contributors who wish to write for the publication on a freelance basis.

If you are involved in the ***Sound & Communications*** industry, and would like to write for the magazine bearing its name, please write to the editor at the below address and outline your experience and particular interests.

Thousands may share your interests and we're willing to share them with our readers.

The Editor
Sound & Communications
25 Willowdale Ave., Port Washington, NY 11050 • (516) 767-2500

Products: ceiling white recessed baffles, time saving baffle mounting devices, protective covers, wall baffles and music speakers, horn speakers for paging/talkback, intercom, telephone and security systems.

See full listing under **Loudspeakers**

Frazier, A Division of Sound-Craft Systems, Inc., Petit Jean Mountain Rt 3, Box 319, Morrilton, AR, 72110, 501-727-5476, 800-643-8747

Marketing: Earle Love

Sales Manager: Hank Shaw

Secretary/Treasurer: Katherine Foust

V.P. Sales & Marketing: James Truelsen

Sr. Engineer: Jay Mitchell

Products: sound reinforcement loudspeaker systems featuring coincident-aligned transducers which offer frequency response and intelligibility and utility in a variety of light-weight compact designs. Special mounting system minimizes installation time.

See full listing under **Loudspeakers**

Gemco Electronics, Inc., P.O. Box 993, 550 Airport Rd., Gallatin, TN, 37066, 615-452-5960

President: Jerry A. Graves

Sales Mgr.: Byron Graves

Chief Engineer: Todd Adams

Office Manager: Mrs. Tiny Brown

Products: wall baffles, speakers, ceiling grills, sound

columns, transformers for the background music and paging industry.

See full listing under **Loudspeakers**

International Music Co. (I. M. C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114

Chairman of the Bd./CEO: Tommy Moore

President: Jerry Freed

V.P. Sales: C.H. Murray

Dir. of Akai EMI: Mike McRoberts

Akai Product Specialist: Kevin Kennedy

Products: Akai: multitrack recorders, digital patch bays, digital samplers, electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones, and effects.

See full listing under **Pro Audio Sound Systems & Products**

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

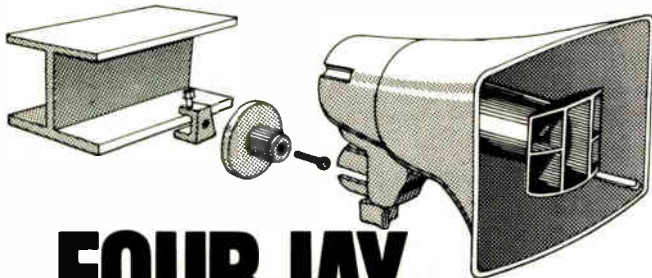
Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

Lowell Manufacturing Co., 3030 Laclede Sta. Road, St.

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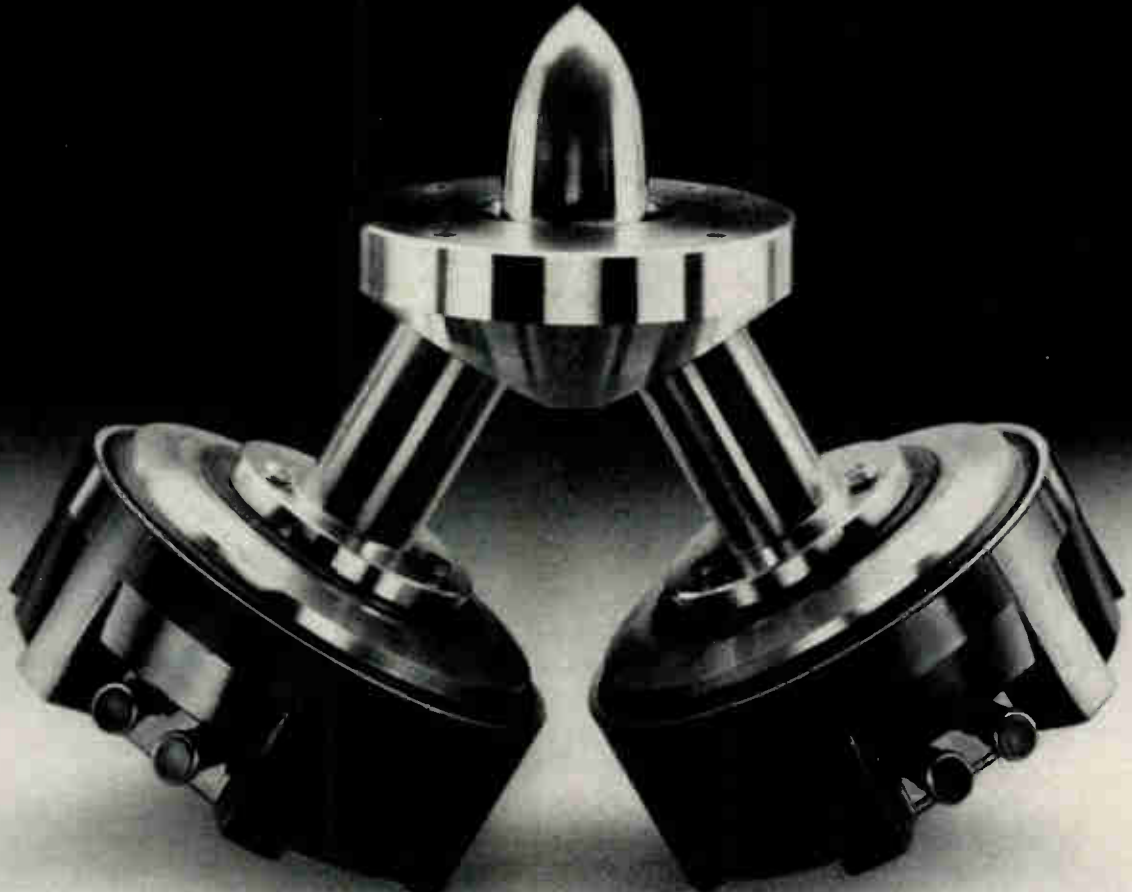
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Friend

We don't mind looking a bit ridiculous if it helps make live sound sublime.



Engineering live sound means solving a multitude of "impossible" problems. Every audience — and every artist — expects great sound. Unfortunately, venues rarely cooperate with those expectations. Fortunately, Turbosound goes to any lengths to develop effective solutions to sound reinforcement problems — even when that entails a total re-examination of fundamental principles.

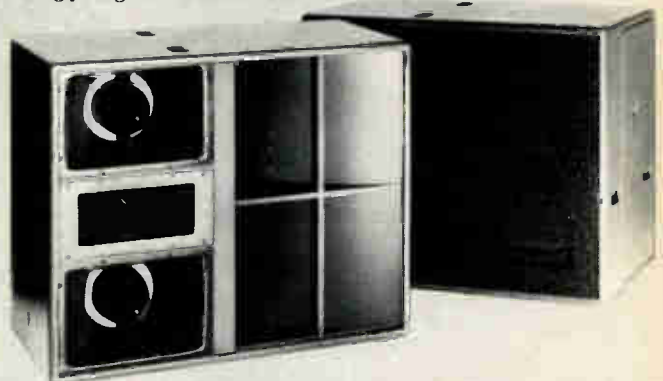
Our determined refusal to rehash the conventions of enclosure design has led us to develop several patented design principles. And to produce unusual-looking loading techniques like our unrivalled TurboMid™ and TurboBass™ devices. Our search for a solution to the dilemmas of HF projection and distortion has now produced the radically advanced V Series.

V Series combines aspects of manifold technology with Turbosound loading techniques to blend the outputs of multiple drivers gradually, minimizing phase cancellation. The first realization of the V Series principle is the V2 shown here. Available initially for the T-3 flare in our world-travelling TMS-3 full-range enclosure, this central focussing device couples two custom-built 1" drivers. It extends the TMS-3's HF response to a true -3 dB at 20 KHz, reduces harmonic distortion dramatically and paves the way for the

soon-to-be-released UHQ system, incorporating Turbosound Flashlight™ technology.

The V2 also solves "impossible" problems of intelligibility without artificial electronic enhancement or extraneous ultra-HF devices. It transmits every nuance of the performance to every seat in the house. And makes live sound more "lifelike" than it's ever been.

Finally, we'd like to point out one more important fact about this unique advance in professional audio performance — the ridiculous-looking part goes *inside* the box.



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*TurboMid™ and TurboBass™ devices are covered worldwide by Principle Patents, not simple design patents. Principle Patents covering V Series have been applied for. The concepts embodied in these designs are, therefore, entirely unique. See Turbosound literature for full information.

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Norway Nordrek Equipment Oslo Tel: (02) 231590 *Singapore/Malaysia* Swee Lee Singapore Tel: (03) 335-1595 *Spain* Lexon Barcelona Tel: (03) 203-4804
Sweden Intermusic Stockholm Tel: (08) 778-1512 *Switzerland* Simec Schönenwerd Tel: (64) 413747 *Thailand* Bangkok City/Graphic Center Bangkok Tel: (02) 314-3570 K.C.M. Bangkok (02) 222-4712
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Louis, MO, 63143, 314-781-9058, 800-325-9660

Chairman: Ben W. Lowell

President: Dorothy H. Lowell

Sales Manager: John J. Lowell

Sales: Wilhelm R. Lowell

Engineering: Karl R. Schneider

Products: loudspeakers, baffles, enclosures, mounting devices, attenuators, UL 8" speaker assemblies, sound masking speakers, blank and custom rack panels, custom fabrication services.

District Offices:

Design Factors, Hacienda Heights, CA, 213-697-7576

Henry W. Phillips Co., Inc., Roswell, GA, 404-992-3070

Peregrine S.W. Reps Inc., Houston, TX, 713-772-6765

Pusecker Sales, Upper Montclair, NJ, 201-744-1834

Silver Peak Marketing, Ltd., Wheat Ridge, CO, 303-467-9042

See full listing under **Pro Audio Sound Systems & Products**

Middle Atlantic Audio Products, P.O. Box 96, Haskell, NJ, 07420, 201-839-1011

Neutrik/DIALIGHT Corp., 1913 Atlantic Ave.,

Manasquan, NJ, 08753, 201-223-9400

Product Mgr.: James Cowan

Dir. of Sales/Mkt'g.: John McNamara

CEO: H. Miller

Products: an extensive line of XLR connectors, receptacles, transformers, goosenecks, modules, patch plugs, phone jack/plugs. Included in the line are weatherproof XLR connectors, a new speaker connector, and "Neutricon" a new miniature connector system.

See full listing under **Wire/Cable Components**

McCauley Sound, Inc., 13608 94th Ave. E., Puyallup, WA, 98373, 206-848-0363

Pres./Sales Mgr.: Tom McCauley

V.P./Production: Pete McCauley

Products: a complete line of touring and commercial loudspeaker systems. They feature a high-powered series of low-, mid-, and high-frequency loudspeakers and compression drivers, as well as CD horns, passive networks, and enclosure hardware.

Oaktron Industries, Inc., 1000 30th St., Monroe, WI,

53566, 800-257-4538

President/CEO: Jerry Disch

Executive V. P.: Bob Taller

V. P. Sales: Jim Hendrickson

Products: commercial loudspeakers and accessories, sound masking speakers. Background and paging systems and a total line of accessories.

See full listing under **Loudspeakers**

The Editors of ***Sound & Communications***
...are always looking for qualified contributors
who wish to write for the publication on a
freelance basis.

If you are involved in the
Sound & Communications industry, and would
like to write for the magazine bearing its
name, please write to the editor at the below
address and outline your experience and
particular interests.

Thousands may share your interests and
we're willing to share them with our readers.

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Omnimount Systems, 10850 Van Owen St., N. Hollywood, CA, 91605, 818-766-9000, FAX: 818-766-9669, TELEX: 181149 WEST LSA

President: Alex Cyrell

Sales Manager: Jim Schaller

Vice President: Susan Michelson

Products: universal mounting assemblies for hanging speaker, monitors or other products, full product line supports a broad spectrum of weight loads, from ounces to hundreds of pounds, with flexibility and stability at any angle.

Orevox Corp., 512 35th St. NE, Auburn, WA, 98002, 206-735-0220, 800-237-0700

CEO: Daniel Wu

Sales Mgr.: Russ Stanford

Products: loudspeakers specializing in foreground speakers, outdoor paging and intercom speakers, self-contained sirens, metal siren/speaker enclosures, and metal utility cabinets for residential and commercial applications.

See full listing under **Loudspeakers**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Q-Line Corp., P.O. Box 20037, 2808 Lakeside Dr., Oklahoma City, OK, 73120, 405-751-3294

President: John W. Quade

Products: Q liner speaker shield. Speaker enclosure, matches speaker flange, protects against foreign matter, weather. Available in semi-rigid plastic/flame retardant plastic for background music and PA systems, auto radio/tape systems.

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN 55144-1000, 612-733-0447

Marketing Manager: Don Rada

Sales Manager: Don Sluder

Products: music libraries for all purposes. Reliable players. Industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems. Microphones, amplifiers and other sound system components.

See full listing under **Back/Foreground Systems Libraries**

UNIVERSITY SOUND, Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

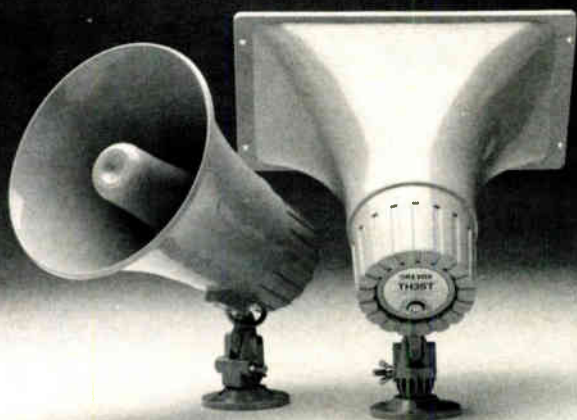
Chief Engineer: Earl Harris

Marketing Mgr., Commercial Products: W. Douglas Wilkens

Products: complete commercial sound line includes horns public address, and explosion-proof drivers, paging/talk-back speakers, weatherproof high-fidelity systems, submergence-proof and underwater speakers, and transformers.

See full listing under **Loudspeakers**

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MAGNETIC TAPE SYSTEMS & SUPPLIES

AGFA-Gevaert, Inc., Magnetic Tape Div., 100 Challenger Rd., Ridgefield Park, NJ, 07660, 201-440-2500

V.P. General Manager: Maria A. Curry

Nat'l. Sales Manager: Andrew Da Puzzo

Audio Prod. Manager: Joe Tibensky

Video Prod. Manager: Chris Emery

Mkt'g. Comm. Manager: Teri Sosa

Products: audio and videotape for the professional and industrial markets. AGFA video products include "Broadcast Pro" U-Matic videocassettes, packaged KCS 10, 20 (mini); KCA 5, 10, 20, 30, and 60; "Super HGX" 1/2" VHS videocassettes packaged as T-30, T-60, T-90, and T-120; 1/2" bulk videocassette tape PEV 192 HGX (high-grade) and PEV 192 (standard-grade); and 3/4" bulk videocassette tape Pev 297.

District Offices:

AGFA-Gevaert, Inc., Atlanta, GA, 404-955-4326

AGFA-Gevaert, Inc., Dallas, TX, 214-258-1441

AGFA-Gevaert, Inc., Oakbrook, IL, 312-242-1951

AGFA-Gevaert, Inc., Los Angeles, CA, 213-552-9622

AGFA-Gevaert, Inc., San Francisco, CA, 415-589-0700

American Recorder Technologies, Inc., P.O. Box 3592, Simi Valley, CA, 93063, 800-624-0918, 800-782-6911

President: Alan Adelstein

Products: S-711 INTRACLEAN Professional Tape Head Cleaner, Audio & Video Swabs, Demagnetizers, Dispenser Pumps.

Apex Machine Co., 3000 N.E. 12th Terrace, Ft. Lauderdale, FL, 33334, 305-566-1572

Sales Executive: Alfred Coningsby III

Sales Executive: Todd Coningsby

Products: on-audio and on-video cassette printing systems, systems range from small hand-operated units up to fully automated systems.

Audico Inc, 219 Crossen Ave., Elk Grove, IL, 60007, 312-640-1030

P: Bill Hinkle

VP: Norm Deletzke

Products: video (U-matic, VHS & Beta) and audio cassette tape loaders, reloaders, rewinders, length verifiers, and pressure-sensitive label sheets. Cart and reel tape winders. Impulser.

Audiolab Electronics, Inc., 3725 Esperanza Dr., Sacramento, CA, 95864, 916-348-0200

President: Robert E. Stofan

Marketing/Sales Mgr.: Ronald A. Stofan

Production Engineer: Marc A. Moore

Products: professional line of bulk tape degaussers (erasers) that return all magnetic media to a neutral position. For use on any tape up to 16" in diameter and 2" wide.

AVSC, 1880 Embarcadero Rd., Palo Alto, CA, 94303, 415-493-3814

President: Richard Wilson

General Manager: Veldon Leverich

Office Manager: Diane Leverich

Products: recording heads for audio and video tape recorders; bulk tape erasers for all formats of magnetic tape.

BASF Corporation, Information Systems, 19 Crosby Drive, Bedford, MA, 01730-1471, 617-271-6642

Benjamin International, Inc., 1460 Old Country Road, Plainview, NY, 11803, 516-753-0700

President: Joseph N. Benjamin

Vice President: Charles Tanner

Products: background music equipment including cassette and CD changers, bulk tape erasers and professional tape splicers.

See full listing under **Back/Foreground Systems Libraries**

Broadcast Electronics Inc., 4100 N. 24th St., Quincy, IL, 62305, 217-224-9600

President: L. Cervon

Vi.P.Marketing: C. Kring

Audio Sales Manager: T. Bealor

RF Sales Manager: B. Harland

Int'l. Sales Manager: E. Corujo

Products: audio mixing consoles, tape cartridge recorders/players, FM transmitting equipment (low, medium, and high power).

See full listing under **Mixers & Mixing Consoles**

Burlington Audio/Video Tapes, Inc., 106 Mott St., Oceanside, NY, 11572, 516-678-4414, 800-331-3191

President: Ruth Schwartz

Vice President: Rudy Schwartz

Jr. Vice President: Jan Schwartz

Sales Manager: Ray Colon

Products: professional quality video and audio tapes, reel-to-reel tape, and accessories.

Capitol Magnetic Products, 6902 Sunset Blvd., Hollywood, CA, 90028, 213-461-2701

President: Edward C. Khoury

Senior V. P./Sales: H. J. "Bud" Jackson

V. P. Int'l Sales: Larry Krutsinger

Managing Dir./U. K.: Steve Castle

Dir./Technical Mkt'g: Joseph Kempler

Products: Audiopak broadcast cartridges; bulk open-reel magnetic cassette/duplicator audio tape; Apollo master lacquer discs.

District Offices:

Capitol Magnetic Products, Hollywood, CA, 213-461-2701

California Sales Office, Los Angeles, CA, 213-254-9111

Pennsylvania Sales Office, Bethlehem, PA, 215-868-1401

Illinois Sales Office, Arlington Hgts, IL, 312-577-6773

CMP, LTD., Hayes, Middlesex (U. K.), 011-44-1-561-0922

Chemtronics Inc., 681 Old Willets Path, Hauppauge, NY, 11788, 516-582-3322

Products: cleaning chemicals for circuit boards and computer equipment, head recorders.

Electronic Specialists, Inc., 171 S. Main St., P.O. Box 389, Watuck, MA, 01760, 617-655-1532

Products: interference control devices, and filters.

Fidelipac Corp., P.O. Box 808, Moorestown, NJ, 08057, 309-235-3900, 800-468-8273

Sales Director: Jack Ducart

V.P. Marketing: Arthur Constantine

Products: reel-to-reel and back-lubricated 1/4 inch recording tape, NAB broadcast Tape Cartridges in sizes A, AA, B, and C; DYNAMAX brand broadcast cartridge machines and accessories.

200 distributors nationwide, contact factory for your area distributor.

Geneva Group of Companies, Inc., 7255 Flying Cloud Dr., Eden Prairie, MN, 55344, 612-829-1724

President: Edward E. Griffin

Sales Manager: Bruce A. Bowen

Products: PF-211 Eliminates previous recordings in seconds. For cassette tapes, reel-to-reel tapes up to 1/2" and video tapes. 2300 gauss, UL/CSA approved.

Gyyr Products, div. of Odetics, Inc., 1515 South Manchester Ave, Anaheim, CA, 92802-2907, 714-772-1000

General Manager: Dave Lewis

Dir. of Marketing/Audio: Robert Hageman

Dir. of Marketing/Video: Terry Tedrick

Nat'l. Service Manager: Harvey Taylor

Products: multitrack audio tape recorders for conference and courtroom use; video cassette time lapse recorders and products for security use.

Infonics, Inc., 2302 E. Michigan Blvd., Michigan City, IN, 46360, 219-879-3381

President: Carol Lant

Vice President: David Smith

Products: mid-speed audio duplication equipment, reel-to-reel, reel-to-cassette, and cassette-to-cassette, 3 3/4, 7 1/2, 15 IPS masters 1/4" or 1/2", frequency response 20-20,000 Hz. In-house duplication services.

International Electro-Magnetics, Inc., 350 North Eric Drive, Palatine, IL, 60067, 312-358-4622

Products: magnetic recorders/heads.

International Music Co. (I. M. C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114

Chairman of the Bd./CEO: Tommy Moore

President: Jerry Freed

V.P. Sales: C.H. Murray

Dir. of Akai EMI: Mike McRoberts

Akai Product Specialist: Kevin Kennedy

Products: Akai: multitrack recorders, digital patch bays, digital samplers, electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones, and effects.

See full listing under **Pro Audio Sound Systems & Products**

International Tapetronics/3M, 2425 S. Main St., P.O. Box 241, Bloomington, IL, 61702, 309-828-1381, 800-447-0414

Marketing Manager: Bob Bomar

Sales Manager: Chuck Kelly

Sales Rep.: John Schaab

Sales Rep.: Tom Becker

Sales Rep.: Jim Woodworth

Products: digital and analog tape cartridge systems, audio routing switchers, telephone answering interfaces and accessories.

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

JRF Magnetic Sciences Inc., 101 Landing Road, Landing, NJ, 07850, 201-398-7426

MacKenzie Laboratories, Inc., 5507 Peck Rd., Arcadia, CA 91006, 818-579-0440, 800-423-4147

President: Addison R. Taylor

V.P./Chief Engineer: Nagy Khattar

Sales & Systems: Joe Vitale

Products: solid-state, digital audio message repeaters, heavy-duty, endless-loop message repeaters, voice alarm and evac. equipment, voice security equipment, boardroom AAV equipment control systems.

See full listing under **Message Repeaters/Storecasters**

Magnefax International, Inc., Route 1, Box 764, Rogers, AR, 72756, 501-925-1818

Products: high-speed tape duplicators.

Magnetic Reference Lab (MRL), 229 Polaris Ave., Suite 4, Mountain View, CA, 94043, 415-965-8187

Nakamichi America, Corp., 19701 South Vermont Ave., Torrance, CA, 90502, 213-538-8150

President: Yas Yamazaki

Exec. V.P. & G.M.: Dean A. Miller

V.P. Sales: Jett Logan

V.P. Mkt'g.: Bill Rosenzweig

V.P. Operations: Ray Privette

Products: MR-1 discrete head professional cassette deck, MR-2 2-head professional cassette deck, SP-7 stereo headphones, RM-5 remote control for MR-1 and MR-2, DM-10 head demagnetizer.

See full listing under **Pro Audio Sound Systems & Products**

Nortronics Co., Inc., 8101 Tenth Ave. North, Minneapolis, MN, 55427, 612-545-0401
President: John A. Yngve
Mkt'g Oper. Mgr.: Karen Nickolauson
Engineering Mgr: Mike Drees
Products: magnetic tape heads for reel-to-reel and cartridge tape recorders for the replacement and original equipment marketplace.

Otari Corp., 2 Davis Dr., Belmont, CA, 94002, 415-592-8311
Nat'l. Sales Mgr.: David Roudebush
Product Specialist: Tom Burrows
Products: a comprehensive line of professional magnetic tape recorders, reproducers, hi-speed cassette duplicators, video and audio cassette tape winders, loaders, and tailoring equipment. Also, Otari manufactures digital audio tape and magnetic disc based recording and playback systems.
District Offices:
Otari, New York, NY, 212-580-5947
Otari, Nashville, TN, 615-367-1023

PHI Technologies, Inc, 4605 North Stiles, Oklahoma City, OK, 73105-3328, 405-521-9000
President: Gary Zebrowski
Director of Operations: Bill Seaman
Sales Mgr., Consumer: Dan Reynolds
Sales Mgr., Systems/OEM: Michael Morgan
Products: custom voice/data storage systems as well as "off-the-shelf" voice logging systems & message repeaters.

Projector Recorder Belt Corp., P.O. Box 176, Whitewater, WI, 53115, 414-473-2151

R.B. Annis Co. Inc., 1101 N. Delaware St., Indianapolis, IN, 46202, 317-637-9282
Products: tape demagnetizers.

Recortec, Inc., 275 Santa Ana Court, Sunnyvale, CA, 94086, 408-737-8441
President: Lester H. Lee
Vice President: Eldon A. Corl
Marketing Director: Ronald Truxell
Products: magnetic tape handling equipment for cleaning, evaluating, certifying, duplication, and cassette and cartridge loading equipment for all widths of magnetic tape.

Saki Magnetics, Inc., 26600 Agoura Road, Calabasas, CA, 91302, 818-880-4054

President: Eugene Sakasegawa
Director/Sales & Mkt'g: Trevor Boyer
Products: magnetic tape heads of ferrite or metal construction for: reel to reel recorders, high speed duplicators, spin cassette duplicators, in-cassette voice loggers, tape certifiers, instrumentation & aerospace recorders & broadcast cart machines.
District Offices:
Auteri Assoc., Inc., Miller Place, NY, 516-331-5022
Coast Recording Equip., Hollywood, CA, 213-462-6058
JRF/Magnetic Sciences, Inc., Greendell, NJ, 201-579-5773
Nortec West, Vancouver, Canada, 403-252-8141
Teletek Electronics, Ltd., Ontario, Canada, 416-499-3242

Sony Professional Audio, 1600 Queen Anne Road, Teaneck, NJ, 07666, 201-833-5200
President: William G. Connolly
Vice President: Jerry Smith
Products: analog and digital audio recorders, compact disc mastering systems, mixing consoles, microphones(wired and wireless), monitoring equipment and public address systems.
See full listing under **Pro Audio Sound Systems & Products**

Soundcraft USA, PO Box 2200, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411, FAX: 818-893-3639
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Nat'l. Sales Mgr.: David Kimm
Tech. Applications: Gordon Cochran
Products: audio mixing consoles and multi-track tape machines. Applications include sound reinforcement, live recording, studio recording, remote recording, broadcast and post production.
See full listing under **Mixers & Mixing Consoles**

Standard Tape Laboratory Inc., 26120 Eden Landing Rd., Suite 5, Hayward, CA, 94545, 415-786-3546
President: Frank G. Lennert
Products: test tapes for precision alignment of magnetic recorder/reproducers. Formats available for reel-to-reel, cartridge, and cassette machines. Tapes are made to conform to appropriate NAB, IEC, and AES Standards.

Stellavox, Jardillets 18, Hauterive, Switzerland, 2068

Studer Revox America, Inc., 1425 Elm Hill Pike, Nashville, TN, 37210, 615-254-5651
V. P./Gen. Mgr.: Thomas E. Mintner
Dir. of Prof. Products: David C. Bowman
Products: audio recorders; super low speed loggers and playback only machines to 2-inch multichannel; professional CD players & cassette recorders; computer con-

trolled automation interface; mixing consoles, 19-inch & portable units to complete studio systems; amplifiers & loudspeakers.

See full listing under **Pro Audio Sound Systems & Products**

Taber Mfg. & Eng. Co./AVSC, Inc., 1880 Embarcadero Rd., Palo Alto, CA, 94303, 415-493-3814

Tascam/TEAC Professional Division, 7733 Telegraph Road, Montebello, CA, 90640, 213-726-0303

Marketing Manager: Bill Mohrhoff
Sales Manager: Gregg Hildebrand
W. Reg. Manager: Fred Allard
S. Reg. Manager: Bill Stevens
E. Reg. Manager: Chuck Prada

Products: professional recorder/reproducers from 1/4" 2-track to the ATR-80, a new 2" 24-track designed for video production. Recording and performance consoles from 6-input to the M-600, a 32-input/16-buss large frame console. Also, receivers, cassette decks, and CD players.

Technics Professional, One Panasonic Way, Secaucus, NJ, 07094, 201-348-7000

Products: full line of professional reel-to-reel tape recorders, cassette decks, tuners, receivers, and CD players.

See full listing under **Pro Audio Sound Systems & Products**

Uher of America, 7067 Vineland Ave., N. Hollywood, CA, 91605, 818-764-1120

President: John Belgiorno
Executive V. P./Mkt'g: George A. Rose
Products: professional heavy-duty open-reel and cassette recorders which provide high performance and reliability along with innovative features for commercial and industrial applications. Choice of mono/stereo portable models. Film sync and long play speeds available.

Versadyne International, 504-C Vandell Way, Campbell, CA, 95008, 408-379-0900

Products: duplicating tape supplies.

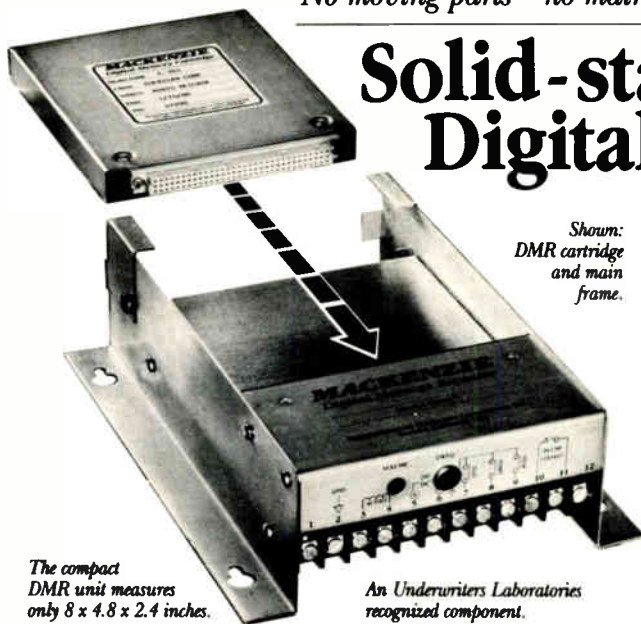
VIF International, P.O. Box 1555, Mountain View, CA, 94042, 408-739-9740

President: Nancy Mackechnie
Advisor, Int'l Op.: Gordon Mackechnie
Products: spare parts, accessories, motor remanufacturing for ampeX and scully professional audio tape recorders.

Xedit Corp., 133 S. Terrace Ave., Mount Vernon, NY, 10550

No moving parts—no maintenance required

Solid-state, Natural Voice Digital Message Repeater



Shown:
DMR cartridge
and main
frame.

The compact
DMR unit measures
only 8 x 4.8 x 2.4 inches.

An Underwriters Laboratories
recognized component.

MacKenzie's Digital Message Repeater (DMR) is ideal for:

- | | |
|--|---|
| <input type="checkbox"/> Fire alarm messages | <input type="checkbox"/> "Watch your step" messages |
| <input type="checkbox"/> Voice evacuation | <input type="checkbox"/> Rental car return instructions |
| <input type="checkbox"/> Fireman's return | <input type="checkbox"/> Sound effects |
| <input type="checkbox"/> "Code Blue" | <input type="checkbox"/> Dark rides |
| <input type="checkbox"/> Parking warnings | <input type="checkbox"/> Exhibits and displays |

MacKenzie's Digital Message Repeater is a revolutionary concept in repetitive sound. *No maintenance* is required because our all-solid-state DMR has *no moving parts*.

The DMR uses EPROM memory cartridges to store digitized recordings of human voices, music or sound effects. Upon demand, the digitized information is reconverted to analog and played to an audio output. The sound is *completely natural*—just like a conventional tape recording—and the audio quality is excellent. Messages are permanently stored and may be played repeatedly without loss of sound quality.

The DMR consists of the message cartridge and the controller main frame. The complete unit is very compact—only 8 x 4.8 x 2.4 inches. Standard message length is up to 60 seconds; longer message time is available. Models are available for multi-message random access. The DMR is an Underwriters Laboratories recognized component.

For more information about the DMR—including our new DMR record-play unit—call MacKenzie Laboratories toll-free at (800) 423-4147.

MACKENZIE MacKenzie Laboratories, Inc.

5507 Peck Road □ Arcadia, California 91006 USA □ (818) 579-0440

Circle 259 on Reader Response Card

MESSAGE REPEATERS/ STORECASTERS

360 Systems, 18730 Oxnard St., Tarzana, CA, 91356,
818-342-3127

Sales Manager: Ralph Goldheim

Products: Permanent Playback is a high reliability message player that reproduces audio directly from digital memory chips. It is used as a replacement for cartridge tape machines in applications where the same message must be played many times.

Audi-Cord Corp., 1845 W. Hovey Ave., Normal, IL, 61761,
309-452-9461

Products: cartridge tape machines.

Audiocom, Inc., 8100 Oak La., Penthouse 401, Miami
Lakes, FL, 33016, 305-825-4653, 800-272-0555

Products: Promotion-on-hold.

Automation Devices, Inc, Automation Park, Box AD,
Fairview, VA, 16415-0904, 814-474-5561

Brooks Scientific, Inc., 55 Wheeler St., Cambridge, MA,
02138, 617-491-9220

Products: message center.

Eltrex International, 2 Columbia Dr., Amherst, NH, 03031,
603-886-3500

Products: digital voice recorder, auto answer and playback.

EMS/Music, 2264 15th Ave. W., Seattle, WA, 98119, 206-
281-8686

V.P. Nat'l. Music Svc. Sales: Bernard Kron

Nat'l. Dealer Sales Desk: Mark Rubin

Other Personnel: Steve Ducharme

Other Personnel: Anne Walker

Products: digitally mastered foreground/background music, complete music service, tape cartridge players, message insertion systems, Current-Drive Amplifiers for transformerless distributed speaker systems. Automated Automixer system that permits segues with various music services.

See full listing under **Back/Foreground Systems Libraries**

Heliotrope General, 3733 Kenora Drive, Spring Valley, CA,
92077, 619-460-3930, 800-854-2674

Products: electronics, thermostats, tapeless recorder

La Belle, 510 W. Worthington, Oconomowoc, WI, 53066,
414-567-9101

Products: LED sign systems & networking.

MacKenzie Laboratories, Inc., 5507 Peck Rd., Arcadia, CA,
91006, 818-579-0440, 800-423-4147

President: Addison R. Taylor

V.P./Chief Engineer: Nagy Khattar

Sales & Systems: Joe Vitale

Products: solid-state, digital audio message repeaters, heavy-duty, endless-loop message repeaters, voice alarm and evac. equipment, voice security equipment, board-

room AAV equipment control systems.

Nel-Tech Labs, Inc., PO Box 1030, Londonderry, NH,
03053, 603-434-8234

President: Gary Stapleford

Vice President: Douglas Brown

Products: digital voice announcement systems featuring nonvolatile memory, user recordable, 100% solid state, multimessage with random access capabilities. Designed specifically for applications where repetitive high quality natural voice announcements are required.

Pentagon Industries, Inc., 5115 N. Sheridan Rd., Chicago,
IL, 60640, 312-271-8300

Portac, Inc., 108 Aero Camino, Santa Barbara, CA, 93117,
805-685-2960

Products: keyboard message generators.

Sierra Video Systems, P. O. Box 2462, Grass Valley, CA,
95945, 916-273-9331

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN,
55144-1000, 612-733-0447

Marketing Manager: Don Rada

Sales Manager: Don Sluder

Products: music libraries for all purposes. Players, industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems. Microphones, amplifiers and other sound system components.

See full listing under **Back/Foreground Systems Libraries**

Tape-Athon Corp., 13633 Crenshaw Blvd., Hawthorne,
CA, 90250, 213-676-6752

President: Leon E. "Lee" Tate

General Manager: Bob Haller

Director Engineering: Bernie Sayers

Director Finance/Mkt'g: John Bagley

Sales Manager: Rick Bottom

Products: reel-to-reel, cassette environmental on-site music systems, rack mount or portable. Chimes & carillon systems, messenger insertion units, full amplifier line. Customized background/foreground libraries.

See full listing under **Patch Bays & Routing Switchers**

TOA Electronics, Inc, 480 Carlton Court, South San
Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

MICROPHONES

Accurate Sound Corp., 3315 Edison Way, Menlo Park, CA, 94025, 415-365-2843

Accusonics Systems Corp., 2101 Jericho Turnpike, New Hyde Park, NY, 11040, 516-328-3300

GM: Dennis Goodman

Products: severe environment headsets, microphones, and loudspeakers.

See full listing under **Loudspeakers**

ACO Pacific, Inc., 2604 Read Ave., Belmont, CA, 94002, 415-595-8588, FAX: 415-591-2891, TLX: 650-273-1078

President: Noland L. Lewis

Products: the ACOustical Interface™ System and "Alternative" Type 1 Microphones for digital recording and acoustic measurements with audio instrumentation. The "GHOST" provides 2 channels of 48V phantom from a single 9 volt battery.

District Offices:

Lee Assoc. Mid-South, Huntsville, AL, 205-533-5896

AKG Acoustics, Inc., 77 Selleck St, Stamford, CT, 06902, 203-348-2121

President: Richard Ravich

Operations Manager: Derek Pilkington

Sales Manager: David Talbot

Service Manager: John T. Pyrch

Products: studio condenser microphones; prepolarized condenser microphones; professional dynamic microphones; wireless microphones, special purpose microphones, stereo microphones; headset microphones; stereo headphones; microphone stands; digital delays; digital reverbs; phonocartridges; and accessories.

Altec Lansing Corp., Box 26105, Oklahoma City Box, OK, 73126-0105, 405-324-5311

President: F. Davis Merrey

V.P. Mkt'g.: Gary Rilling

Sales Manager: Gayle Campbell

Products: industrial and professional electronic and loudspeaker products including mixers, mixing consoles, power amplifiers, equalizers, compressor/limiters, high power speakers and compression drivers, constant directivity horns, crossovers, and microphones.

See full listing under **Loudspeakers**

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026, 314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: professional floor, boom and desk stands. US-made for communication and sound systems, performer and musician, studio and stage, recreation and work area applications. Choice of over 40 microphone accessories, adaptors and fittings.

See full listing under **Loudspeakers**

Audio Engineering Associates, 1029 N. Allen Ave., Pasadena, CA, 91102, 213-684-4461

Audio-Technica U. S., Inc., 1221 Commerce Drive, Stow, OH, 44224, 216-686-2600

President: Jon R. Kelly

V.P. Marketing: Ken Reichel

Nat'l. Sales Mgr./Pro Products: Mark Taylor

Mk'tg. Mgr./Pro Products: Greg Silsby

Sales Mgr./Pro Products: Mike Wuellner

Products: studio condenser microphones, fixed charge condenser microphones, dynamic microphones, UniPoint™ Microphone Series, boundary layer microphones, microphone accessories, mixers, cables, direct boxes, microphone stands and booms, weatherproof hi-fidelity speaker systems.

Audix, P.O. Box 265, San Carlos, CA, 94070, 800-222-8349

Audra International, P.O. Box 38, Silverado, CA, 92676, 714-649-2207, TLX: 493 1854

Owner: Algis Renkus

Products: miniature microphones, mic splitters, precision audio transformers, and made-to-order transformers.

Beyer Dynamic, Inc, 5-05 Burns Ave, Hicksville, NY, 11801, 516-935-8000

General Manager: Paul Murphy

Marketing Manager: Bob Lowig

Marketing Manager: Mike Solomon

Products: dynamic and condenser microphone, professional headphones and headsets, wireless microphones, microphone stands and booms, sound contracting components and accessories.

District Offices:

Hudson Marketing, Bayside, NY, 718-352-7365

Pro Audio Associates, Burlington, MA, 617-229-6050

New Horizons, Bannockburn, IL, 312-234-5911

Derek Allen Assoc., Burbank, CA, 818-840-8327

Bogen Communications, Inc., PO Box 575, 50 Spring St., Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.

See full listing under **Audio Amplifiers**

C-T Audio Marketing Inc., 3050 SW 14th Place, Suite 3, Boynton Beach, FL, 33435, 305-738-0622, 282-8346

President: Andre Walton

Dir. Sales/Mkt'g: Sam Spennacchio

Products: c-ducer contact microphone, particularly popular for studio quality sound from piano. Stanz - range of speaker and lighting stands. O + M - range of PA speakers. Omni Craft - range of studio noisegates.

Calrec Audio Limited (Calrec By AMS), P. O. 31864, Seattle, WA, 98103, 206-633-1956, TLX: 4900001180 (CAL UI)

Managing Director: K. Farrar

Director: D. S. Jagger

Director: C. M. Waddington
Director: J. S. Nevison
Sales/Mkt'g Manager: N. Branwell
Products: high grade and audio mixing systems, microphones include the "soundfield" and full range of condenser microphones. Calrec is a custom console builder and also produces the UA8000 music console and digitally assignable broadcast consoles.

District Offices:

Westlake Audio, Los Angeles, CA, 213-851-9800
Martin Audio, New York, NY, 212-541-5900
Valley Audio, Nashville, TN, 615-383-4732
Harris Audio, Miami, FL, 305-944-4448
Technical Audio Systems, Atlanta, GA, 404-457-0988

Cetec Vega, 9900 Baldwin Pl., El Monte, CA, 91731-2204, 818-442-0782

President: Gary J. Stanfill

Director of Mkt'g: Kenneth M. Bourne
National Sales Manager: Paul Baughman
Dir. of Engineering: Mark Rodighiero
Dir. of Operations: David Duran

Products: wireless microphone systems with Dynex® II audio processing, true dual-receivers, bodypack or handheld transmitters, and full range of accessories; "Q" plus full-duplex belt-pack wireless intercom systems (Single-package portables); tone signaling, monitoring, and control equipment.

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-962-6009

Products: a full line of paging products.
See full listing under **Paging Systems**

COMTEK

Comtek, Inc., 357 W. 2700 St., Salt Lake City, UT, 84115, 801-466-3463

President: Ralph Belgique

Application Engineer: Steve Kartchner
In-House Sales: LeeAnne Richards

Products: wireless microphone systems operating up to 216 MHz and RF assistive listening systems for the hearing impaired for use in auditoriums, churches and theaters, wireless tour guide systems, wireless intercom systems, and wireless cuing systems.

Conneant Technologies, Inc., Harbor & Jackson St., Conneaut, OH, 44030,-

Chief Op. Officer: Adolph Santorine
Dir. Mkt'g & Sales: James A. Edwards

Products: microphones for commercial, industrial, communications, institutional, and musical applications.

District Offices:

Roburn Agencies, Inc, New York, NY, 212-989-5939

Countryman Associates, Inc., 417 Stanford Ave., Redwood City, CA, 94063, 415-364-9988

Products: tiny precision condenser microphones designed specifically for podiums, choirs, boardrooms, theater, vocalists, and musical instruments with a wide variety of features and options. Also, a studio-quality direct-box.

Crown International Inc., 1718 W. Mishawaka Road, Elkhart, IN, 46517, 219-294-8000

President: Max Scholfield

Mkt'g Manager: Charles W. Gushwa

PR Coordinator: Margo Sousley

Microphone Prod. Mgr.: Bill Raventos

Amplifier Prod. Mgr.: Verne Searer

Products: professional power amplifiers from 35 to 400 watts per channel, PZM® microphones & hand held microphones for performance, musical instruments & sound reinforcement.

See full listing under **Audio Amplifiers**

Dean Markley Electronics Inc., 3350 Scott Blvd., Suite 45, Santa Clara, CA, 95054, 408-988-2456, 800-538-8330

President: Dean Markley

Executive V. P.: Bari Wilson

Nat'l Sales Manager: Tom Dreibelbis

Products: professional audio sound systems and support, powered and non-powered mixers, powered and unpowered enclosures, power amps, microphones, cables and accessories.

See full listing under **Pro Audio Sound Systems & Products**

Eddor, 1948 East Pomona, Santa Ana, CA, 92705, 714-863-1529, 800-854-0259

Sales Manager: Deanna Weston

Chief Engineer: Luis Bonand

Production Manager: Tina Lopez

Treasurer: Phyllis Weston

Products: complete line of electronic commercial sound products including power & mixer amplifiers, E-Q amps, microphone/line mixers, automatic & gated mixers, wireless microphones systems, translation systems, transformers and private label products.

See full listing under **Pro Audio Sound Systems & Products**

Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Director of Marketing: Jim Long

Chief Engineer: Earl Harris

Products: broadcast, recording, communications and PA microphones.

See full listing under **Pro Audio Sound Systems & Products**

Fostex Corp. of America, 15431 Blackburn Ave, Norwalk, CA, 90650, 213-921-1112

President: Y. Abe

V.P. General Manager: Fred Huang

V.P. Sales/Marketing: Mark Cohen

National Sales Manager: Mike Flynn

Products: a full-line for the Pro contractor including the MP Series multi-purpose powered mixers, SP & SPA11 portable speakers for many applications, raw frame speaker components from 18" to super tweeter, monitors, headphones, and microphones.

See full listing under **Pro Audio Sound Systems &**

Gotham Audio Corp., 1790 Broadway, New York, NY, 10019-1412, 212-765-3410

President: Russ R. Hamm

Focused.

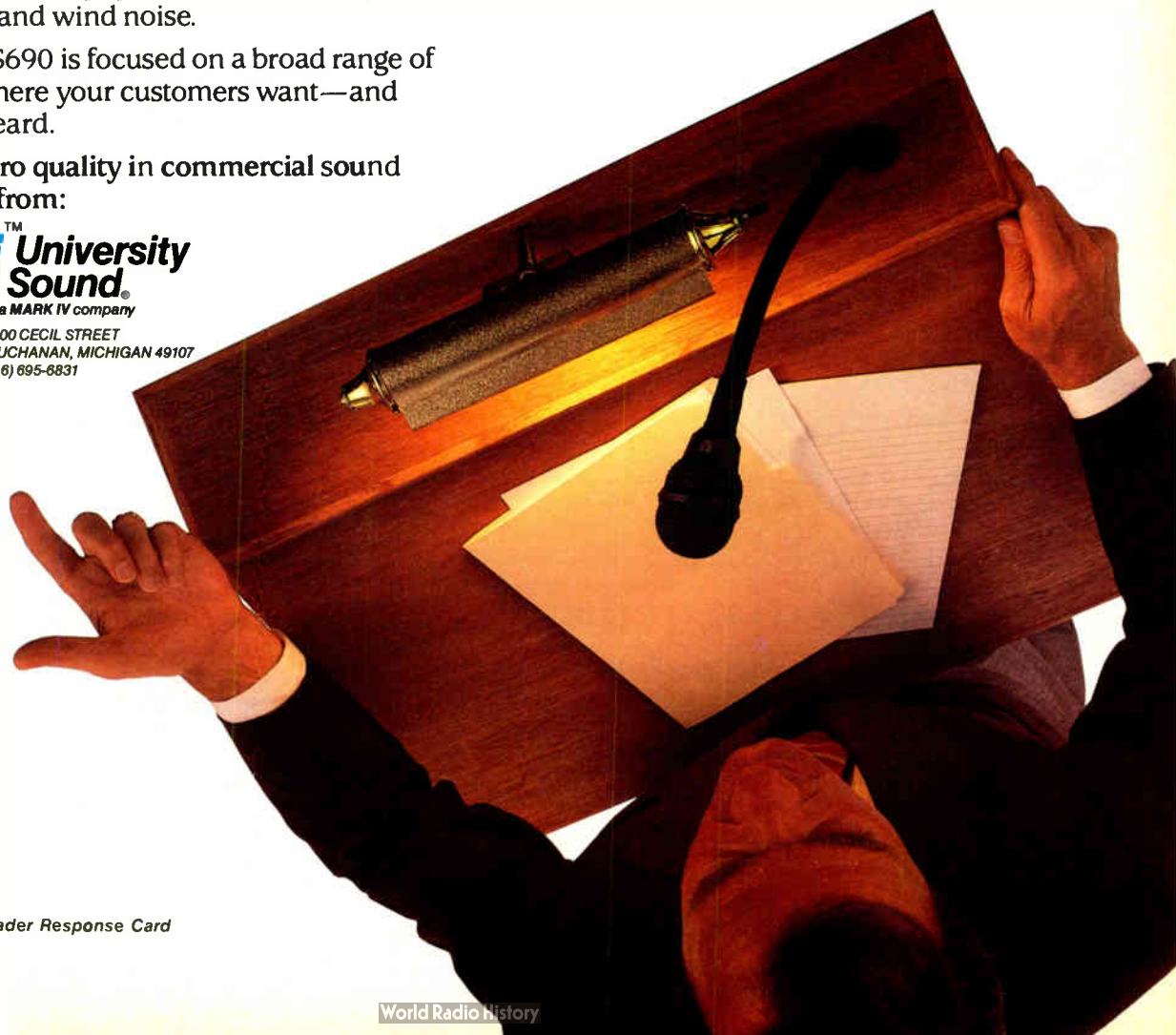
The US690 mic puts N/DYM™ technology on the podium. Now, the most powerful innovation in dynamic microphones is available for commercial sound applications. The revolutionary N/DYM magnetic assembly means up to six dB more output—plus smooth, crisp, open sound and outstanding voice reproduction.

Typical problems of a podium mic are eliminated by the unique features of the US690. A well controlled supercardioid pattern ensures better directivity and less feedback, producing better sound in noisy environments. An effective hum-bucking coil cancels hum from lighting and other sources. Handling and mechanical noise are reduced by an effective shock mount and noiseless gooseneck. And an Acoustifoam™ pop filter eliminates explosive breath sounds and wind noise.

In short, the US690 is focused on a broad range of applications where your customers want—and need—to be heard.

The US690—pro quality in commercial sound available only from:

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Sound**
a MARK IV company
600 CECIL STREET
BUCHANAN, MICHIGAN 49107
(616) 695-8831



Circle 213 on Reader Response Card

Eastern Sales Mgr.: Jerry Graham
Western Sales Mgr.: Juergen Wahl
Sales Engineer: Peter Engel
Products: Neumann condenser microphones, limiters/compressors, and equalizers and accessories; EMT digital delays; Gotham audio cable; K & H loudspeakers, and parametric equalizers; Audio Developments mixers; NTP limiters/compressors and meters.
District Offices:
Gotham Audio Corp., Van Nuys, CA, 818-785-2211
Gotham Audio Corp., Salem, MA, 617-745-8522

HM Electronics, Inc., PO Box 261669, San Diego, CA, 92131, 619-578-8300
President: Harry Y. Miyahira
Vice President: Donald Kutz
Director of Mkt'g: J. Michael Hughes
National Sales Manager: Randy Opela
Mkt'g Coordinator: Tonnia B. Sills
Products: a complete line of wireless and cabled microphones, wireless and cabled intercom systems, DJ mixers, cordless guitar systems, power amplifiers, and accessories.
District Offices:
HM Electronics, Inc. Anaheim, CA, 714-635-0190
John B. Anthony Co., Stamford, CT, 203-322-9202
Applied Audio Mkt'g, Asheville, NC, 704-252-9313
Dobbs-Stanford, Dallas, TX, 214-358-0800
Sound Marketing, Palos Park, IL, 312-448-6715

International Music Co. (I. M. C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114
Chairman of the Bd./CEO: Tommy Moore
President: Jerry Freed
V.P. Sales: C.H. Murray
Dir. of Akai EMI: Mike McRoberts
Akai Product Specialist: Kevin Kennedy
Akai: multitrack recorders, digital patch bays, digital samplers, Products: electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones, and effects.
See full listing under **Pro Audio Sound Systems & Products**

IQS, Inc., 12812-J Garden Grove Blvd., Garden Grove, CA, 92643, 714-539-7842
President: William Elder
V. P.: Douglas Evered
Products: Audio Signal Analyzers, PC-based Models 401 and 416-2a single and dual channel; Reference Microphones - Model 302, 20-20kHz; Model 312, 5-40kHz; Arbitrary Waveform Signal Generator - Model SSM-1; Audi Analysis FFT Software - Spectrum Analyst Pak 1®; Signal Analyst Pak® .
See full listing under **Test Equipment & Tools**

Knowles Electronics, Inc., 3100 N. Mannheim Rd., Franklin Park, IL, 60131, 312-455-3600

Larson-Davis Laboratories, 280 S. Main, Pleasant Grove, UT, 84062, 801-785-6352

Lectrosonics, Inc., P.O. Box 12617, Albuquerque, NM, 87195, 505-831-1010
President: John Arasim
V.P. Engineering: Larry Fisher

Mkt'g. Manager: Bruce Jones
Sales Manager: Jim Madden
Production Manager: Keith Philips
Products: Freedommike® wireless microphone systems; single antenna and diversity receivers in both standard and miniature configurations; a wide variety of body-pack and hand-held transmitters for many applications; Voice Projector® portable sound systems with rechargeable, self-contained power supplies.
District Offices:
Gary Castelluccio & Assoc., Patterson, NJ, 201-278-2500

Milab/ Exp, 11288 Ventura Boulevard, Suite 304, Studio City, CA, 91604, 818-843-1830
National Sales Mgr.: Colin Waters
Marketing: Susan Tesh
Product Mgr.: Kurt Wolfgang
Products: professional studio/broadcasting/PA condenser microphones.

Milliphonics, Salina Star Route, Boulder, CO, 80302, 303-444-3167
Products: implant microphones for all electroacoustical applications.

Nady Systems, Inc., 1145 65th St., Oakland, CA, 94608, 415-652-2411
Sales Manager: Peter Kalmen
Products: wireless microphone systems, video camera, wireless system for ENG/EFP.

Panasonic Industrial Company/Ramsa, 6550 Katella Ave, Cypress, CA, 90630, 714-895-7272
National Marketing Mgr.: Steve Wooley
Products: Ramsa, the professional audio division of Panasonic Industrial Company's Audio/Video Systems Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.
See full listing under **Pro Audio Sound Systems & Products**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Squeglia
Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365
Prod Mgr/Sound Reinf.: Hollis Calvert
Prod Mgr/Digital Product: Ken Valentine
Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater

ANNOUNCING THE BIGGEST IDEA IN THE HISTORY OF WIRELESS



Samson incorporates dbx noise reduction to achieve
a new standard of wireless performance.*

Samson Concert TD Series is the first true diversity VHF wireless system with dbx noise reduction. We've been setting new standards of sound and reliability in wireless over the years, but we're always refining our technology to make it even better. That's why we chose world-class dbx technology to solve the biggest problem in wireless — noise.

dbx noise reduction makes the Concert TD Series incredibly quiet. It also expands frequency response to deliver the best possible sound for vocals and instruments. And you won't hear it working because dbx circuitry eliminates the pumping and breathing that

plagued wireless sound in the past.

Breaking new ground with our Concert TD Series, Samson engineering excellence now takes a quantum leap forward in its ongoing search for the highest standard of wireless performance. We are the first to incorporate dbx noise reduction because we want to guarantee the best possible audio quality available in wireless today. Now there's every reason you can think of to enjoy the unlimited freedom promised by wireless.

First we took the worry out of wireless with reliable no-dropout performance, now we're taking the noise out of wireless with dbx.

SAMSON®

WE TOOK THE WORRY OUT OF WIRELESS®

Samson Products Corporation, 124 Fulton Avenue, Hempstead, New York 11550
(516) 489-2203 TLX 284696 SAM UR FAX (516) 489-2418
In Canada: Omnimedia Corporation Ltd., 9653 Cole de Liesse,
Darval, Quebec H9P 1A3 514-636-9971



Now available with optional XLR output.

Mic Capsules Available: Electro-Voice
N/D 757 element offered exclusively in
wireless by Samson.
Also available: BK-1, SM 58, SM 85, SM 87

*dbx is a registered trademark
of BSR North America Ltd.

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Circle 216 on Reader Response Card
World Radio History

systems.

See full listing under **Pro Audio Sound Systems & Products**

Posthorn Recording, 142 West 26th St., New York, NY, 10001, 212-242-3737

Owner/President: Jerry Bruck

Technical Services: Michael P. Hesse

Public Relations: Louise A. Bloomfield

Products: Schoeps studio condenser microphones are professional, high-definition types with interchangeable capsules. A wide choice of pickup patterns and characteristics tailor each microphone for a specific range of uses. Sonotrim electret condenser microphones are ultra-miniature, phantom or battery powered, units designed for lavalier or other unobtrusive placement.

Roanwell Corporation, 180 Varick St., New York, NY, 10014, 212-989-1090

Products: hand mikes and headsets.

Samson Technologies Corp., 124 Fulton Ave., Hempstead, NY, 11550, 516-489-2203

Vice President: Scott Goodman

Vice President: Doug Bryant

Export Manager: Kevin Moran

Sales: Richard Perl

Sales: Gary Jakery

Products: wireless systems, "Broadcast STD Series", true diversity channel selectable system with dbx noise reduction. "Concert TD Series", true diversity crystal controlled wireless system with dbx noise reduction. "Stage Series" VHF portable wireless system.

District Offices:

Jamm Distributing, Matteson, IL, 312-747-6363

Image Mkt'g, Costa Mesa, CA, 714-650-7718

Chris Pelzar, N. Canton, CT, 203-693-1501

Ron Tunks Sales, Tamarac, FL, 305-722-2803

JMS Marketing, Austin, TX, 512-266-1113

Sanken Microphone, Ltd./Pan Communications, Inc., Roppongi 1-5-10, Suite 607, Minato-ku, Tokyo, Japan, 106, (03)-505-5463

Sennheiser Elec. Corp., 48 W. 38th St., New York, NY, 10018, 212-944-9440

Products: a full line of microphones (dynamic, electret, and condenser) as well as RF (hand-held, body-pac, single channel, diversity/non-diversity, and rack-mount), infrared listening equipment, headphones and portable mixers.

Shure Brothers, Inc, 222 Hartrey Ave, Evanston, IL, 60202-3696, 312-866-2200

President: James Kogen

V.P. Sales/Mkt'g: Richard Murphy

Marketing Manager: Sandy Schroeder

Sales: Tim Vear

Sr. Product Cdr: Max Ann Buchanan

Products: microphones and accessories, wireless microphone systems, mixers and related circuitry products, automatic microphone systems, compact sound reinforcement systems, teleconferencing systems.

District Offices:

Peter E. Schmitt, Co., Leonia, NJ, 201-944-2806

Steffey Marketing, Northbrook, IL, 312-480-3575

Berman-Gravley Co., Costa Mesa, CA, 714-549-2122

Rep Tech, Terrell, TX, 214-222-2131

S.K. Macdonald, Lisbon, MD, 301-982-1088

Sony Professional Audio, 1600 Queen Anne Road, Teaneck, NJ, 07666, 201-833-5200

President: William G. Connolly

Vice President: Jerry Smith

Products: analog and digital audio recorders, compact disc mastering systems, mixing consoles, microphones(wired and wireless), monitoring equipment and public address systems.

See full listing under **Pro Audio Sound Systems & Products**

Sound Control Technologies, Inc., 114A Washington Street, Norwalk, CT, 06854, 203-854-5701

President: Adolph Neaderland

Sales/Mkt'g: David Neaderland

Products: full duplex patented VOICELIFT™ voice reinforcement and TELEPLEX™ teleconferencing systems for boardrooms, conference and training rooms and teleconferencing areas. Proprietary implant microphones for both plenum and non-plenum installations.

See full listing under **Teleconferencing Systems**

Sound Products/3M, 3M Center 225-S-10, St. Paul, MN, 55144-1000, 612-733-0447

Marketing Manager: Don Rada

Sales Manager: Don Sluder

Products: music libraries for all purposes. Players, industrial quality intercoms and vehicle detectors. Top-line message repeater. Speaker assemblies for distributed systems. Microphones, amplifiers and other sound system components.

See full listing under **Back/Foreground Systems Libraries**

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.

See full listing under **Audio Amplifiers**

Swintek Enterprises, Inc., 587 Division St., Campbell, CA, 95008, 408-378-8091

President: William P. Swintek

V.P.: Les Underwood

Products: RF full-duplex intercoms, switching diversity re-

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The 501 VHF is available with a good-looking handheld microphone transmitter or a bullet-proof lavalier microphone transmitter. A lightweight, portable AC or DC-powered receiver completes the system.

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Nady Systems, Inc.
1145 65th St.,
Oakland CA 94608
415/652-2411



ceivers for sound reinforcement, mini receivers for video cameras, lavalier and hand-held FM transmitters, antenna distribution amplifiers to 470 MHz.

District Offices:

Cinequip, Inc., Toronto, Ont., CD, 416-920-5424

Maga Techtronics, Artarmon, NSW, Australia, 02-438-3377

Commercial Electronics, Vancouver B.C., CD, 604-669-5525

TELEX

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550
President: John Howe

Sales Manager/Microphones: Gary Fisher

Sales Manager/Intercom: Claude Kleiman

Director of Marketing: Donald Mereen

Products: dual antenna (diversity) wireless microphone systems, single antenna wireless microphone systems, wired microphones.

See full listing under **Pro Audio Sound Systems & Products**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Uniprise International, 15 Hickory Dr., Roslyn, NY, 11576, 516-621-6987

Sales Director: Stanley Hirsch

Chief Engineer: David Porter

Production Manager: Philip Porter

Products: flexible arms (goosenecks) and flexible tubing used on microphones, intercoms, lecterns, head-sets, and lamps.

Williams Sound Corp., 5929 Baker Rd., Minnetonka, MN, 55345-5997, 612-931-0291, 800-328-6190

President: Gerald I. Williams

General Manager: James M. Broz

Dir. of Marketing: Paul S. Ingebritsen

Sales Manager: Jeff Peters

Chief Engineer: Jay Kershaw

Sound & Communications

Who would believe a microphone this flat...



Model AT871 UniPlate™
Condenser Cardioid

could have a curve to match!

If you've tried other hemicardioid boundary microphones, you may have been disappointed in the sound... thin, peaky, and requiring lots of equalization. If so, it's time to listen to ours: the new AT871 UniPlate Condenser Cardioid.

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Our experience pioneering UniPoint miniature condensers permitted us to take a new approach to boundary microphone design. We optimized the basic UniPoint cardioid element for boundary use, creating remarkable reach and presence, yet retaining extended high and low-frequency



response so vital to natural sound reinforcement.

Outstanding Gain-Before-Feedback

The AT871 UniPlate Cardioid has both the polar pattern and response curve to provide higher gain-before-feedback than you may have thought possible. But better gain-before-feedback and a great sounding element are only a part of the story.

Less Noise Two Ways

By using a very low-mass diaphragm and a case heavier than the others, we sharply reduced sensitivity to mechan-

ical noise. The electronics are audibly quieter as well – a tremendous advantage in typical boundary microphone applications. We also include a low-cut switch to help control acoustic room noise. The AT871 can be powered by an internal battery or from 9-52VDC phantom power.

Effective Problem Solver

The AT871 is solving problems in stage sound reinforcement, church sound, teleconferencing, boardroom applications... even TV and film locations. Wherever great sound is needed...unobtrusively. We urge you to test the AT871 side-by-side with any of the rest. Choose your most critical sound problems. The difference you hear will prove our point.



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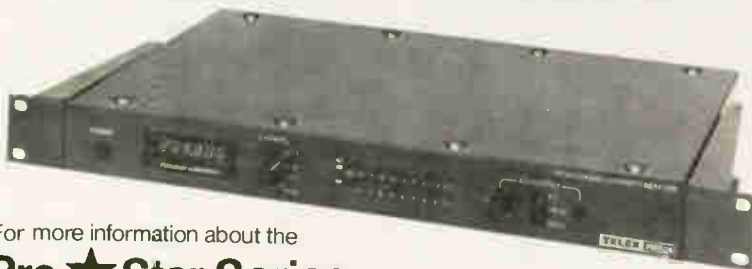
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- ✓ Multi-Channel Receiver
- ✓ Multi-Channel Transmitter
- ✓ Interchangeable Mic Heads
- ✓ Diversity
- ✓ Optional Channel Specifications

Introducing the Pro★Star Series

Here's a wireless system that puts it *all* together. Patented Pos-i-Phase diversity eliminates audio dropouts while the multi-channel receiver and transmitter help prevent channel interference. Now, Telex introduces the HT-400 Wireless Microphone, a two channel mic/transmitter featuring interchangeable mic heads. You can choose from two different condenser heads; the Telex TE-10, or the Shure* SM-87. A Shure SM-58 Dynamic head is also available. The FMR-4 is a four channel diversity receiver designed for permanent rack mount installations or portable concert cases. Although its a great companion to the two channel HT-400, it is compatible to the entire line of Telex transmitters.



For more information about the

Pro★Star Series

write to Telex Communications, Inc. 9600 Aldrich Av. So., Minneapolis, MN 55420

TELEX®

*Shure is a registered trademark of Shure Brothers Inc.

Such annual reports as the May Contracting Business In-Depth Market Report and the December Industry Report keep readers well-informed on new industry trends, what's on the horizon in the sound and communications contracting market and the state of the economy as it relates to the industry. Special pull-out sections—from mixing consoles to alarm & security—provide the sound contractor with a diverse selection of products to choose from to suit his particular needs.

Look for these special features and more in upcoming issues of **Sound & Communications.**

Want to stay on top of this aggressively competitive industry?

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SPECIAL FEATURES.

Products: FM wireless hearing-assistance systems; programmable wireless microphone systems; wireless tour guide systems; talent cueing and loop systems.
See full listing under **Hearing Assistance Systems**

Wissco, 1599 Superior Ave., A-1, Costa Mesa, CA, 92627,
714-645-1281

President: J. Wanlass

Products: wireless microphones and receivers, power megaphones, sound lecterns, mobile sound systems, portable PA systems, mixers, speakers, telephone intercom systems, professional sound systems, amplifiers, power supplies, AC regulators, IR links.

Wright Microphones, 2093 Faulkner Rd. N.E., Atlanta, GA,
30324, 404-321-3886

Products: TSR-2 transformerless condenser microphone for studio use.

Yamaha International Corp., Audio Products Division, 6600
Orangethorpe Ave., Buena Park, CA, 90620, 714-522-
9011

Gen. Mgr.: John Gatts

Nat'l. Sales Mgr.: Bob Shomaker

Adv. Mgr.: Robert T. Davis

Products: full line of audio mixing consoles, power amplifiers, speaker systems, digital signal processing equipment, and microphones.

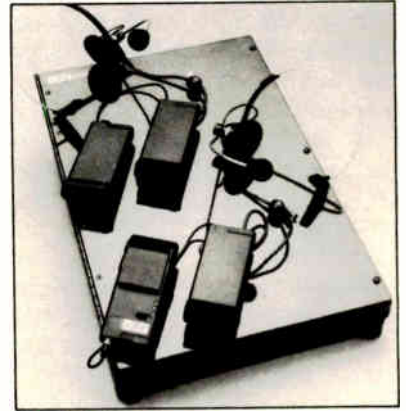
See full listing under **Pro Audio Sound Systems & Products**

Leading the Way

Every month, *Sound & Communications* editorial staff and contributing and technical editors are leading the sound contracting marketplace with powerful issues. Columns include *Consultant's Comments*, which offers pointers on how contractors can get the most from their market; *Theory & Applications*, which gives readers insight on acoustical theories and applications; *Computers & Digital Audio*, which explains how computer processing becomes audio processing; and the *Business Front*, which offers business tips to contractors, consultants and reps so they can keep that competitive edge in this fast-growing industry.

Regular feature columns include *Lab Test*, which takes the reader into the scientist's lab and provides the reader with an unbiased product test report each month. Another monthly feature, *Installation Profile* is a case study of a contractor's installation. This feature takes a close look at how the contractor completed his job, how he solved problems along the way, and offers tid bits and sales techniques that another contractor could use.

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MIXERS & MIXING CONSOLES

ADM Technology Inc., 1626 E. Big Beaver Rd., Troy, MI, 48084, 313-524-2100

Allen and Heath Brenell USA Ltd. (AHB), 5 Connair Rd., Orange, CT, 06477, 203-795-3594
V.P./Sales Manager: Chuck Augustowski
Service Manager: Kevin Macdowall
Engineer/R&D: John Petrucelli
Engineer: Joseph Boerst
General Manager: Jean Rathgeber
Products: professional sound reinforcement and recording consoles as well as mixers for sound contractor applications. A complete line of Broadcast Equipment is manufactured under the MBI name.

District Offices:

GMI/New England, Avon, MA, 617-588-8043
Sherwood Assoc., Endicott, NY, 607-785-1590
Metropolis Marketing, Edison, NJ, 201-225-0085
Audio Assoc., Glenwood, MD, 301-854-6122
Ron Tunks Sales, Tamarac, FL, 305-722-2803
Cambridge Marketing, Euclid, OH, 614-890-7788
Jamm Dist., Matteson, IL, 312-747-6363
Centurian Marketing, Ballwin, MO, 314-227-7229
JMS Marketing, Austin, TX, 512-266-1113
Loppnow & Assoc., Redmond, WA, 206-883-3205
AMH Sales, Palos Verdes, CA, 213-373-2034

Altec Lansing Corp., Box 26105, Oklahoma City Box, OK, 73126-0105, 405-324-5311
President: F.: Davis Merrey
V.P. Mkt'g.: Gary Rilling
Sales Manager: Gayle Campbell
Products: industrial and professional electronic and loudspeaker products including mixers, mixing consoles, power amplifiers, equalizers, compressor/limiters, high power speakers and compression drivers, constant directivity horns, crossovers, and microphones.
See full listing under **Loudspeakers**

Amek Consoles, Inc, 10815 Burbank Blvd., N. Hollywood, CA, 91601, 818-508-9788
Technical Director: Tim Wilson
Sales Director: Arnold Toshner
Sales Administrator: Sue Jones
Tech. Support: Robert Jaxson
Parts & Shipping Mgr.: Bruce Kiewall
Products: a full range of audio consoles for all applications of sound reinforcement, multi-track recording, and broadcast applications.

API Audio Products, Inc., 7953 Twist Lane, Springfield, VA, 22153, 703-455-8188

ATI - Audio Technologies, Inc., 328 Maple Ave., Horsham, PA, 19044, 215-443-0330
President: Sam Wenzel
Vice President: Edward M. Mullin
Products: precision audio equipment for the broadcast including 8 & 12 mixer consoles, mike, line, turntable, distribution and power amplifiers, and the Match-Maker and Disc

Patcher IHF to PRO interface amplifiers.
See full listing under **Audio Amplifiers**

Audio-Technica U. S., Inc., 1221 Commerce Drive, Stow OH, 44224, 216-686-2600
President: Jon R. Kelly
V.P. Marketing: Ken Reichel
Nat'l. Sales Mgr./Pro Products: Mark Taylor
Mk'tg. Mgr./Pro Products: Greg Silsby
Sales Mgr./Pro Products: Mike Wuellner
Products: studio condenser microphones, fixed charge condenser microphones, dynamic microphones, UniPoint™ Microphone Series, boundary layer microphones, microphone accessories, mixers, cables, direct boxes, microphone stands and booms, weatherproof hi-fidelity speaker systems.
See full listing under **Microphones**

Audioarts Engineering, Five Collins Road, Bethany, CT, 06525, 203-393-0887

Audisar, Box 1561, Bellevue, WA, 98009, 206-454-204
Owner: R. Munger
Products: industrial audio and broadcast equipment, autotransformers, loudspeakers, power amplifiers, mixers, sound projector interface device, test equipment, special and engineered sound systems.
See full listing under **Pro Audio Sound Systems & Products**

Autogram Corp., 1500 Capital Ave., Plano, TX, 75075, 214-424-8585
Products: audio consoles.

Biamp Systems, 14270 NW Science Park, Portland, OR, 97229, 503-641-7287
President: Ralph Lockhart
V.P. Engineering: Bob Doty
V.P. Finance: Jerry Payette
V.P. Manufacturing: Ralph Tennant
Sales Manager: Ron Camden
Products: American-made, high-quality, audio equipment for the sound contractor that includes; mixers, live and recording, rack-mount or console; powered mixers; microphone mixers; amplifiers; equalizers; and crossovers.
See full listing under **Pro Audio Sound Systems & Products**

Bogen Communications, Inc., PO Box 575, 50 Spring St. Ramsey, NJ, 07446, 201-934-8500
President: John H. Ochtera
V.P. Marketing: Carl C. Dorwaldt
Nat'l. Sales Mgr.: David A. Chambers
Products: commercial sound and communication systems and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.
See full listing under **Audio Amplifiers**

Broadcast Audio Corp, 11306 Sunco Dr., Rancho Cordova, CA, 95670, 916-635-1048
President: John Fernandez
CEO: David Evans

In sound reinforcement, there are no insignificant details.

An infinite capacity for taking pains

It's an apt description of genius, especially in the arena of sound reinforcement. Each job comes with its own endless list of minor obstacles, all ready to become major headaches at a moment's notice. That would be reason enough for us to design every section of D Series consoles for maximum performance; even if we weren't committed to finding out just how good sound reinforcement consoles can be.

Technical advances are raising audience expectations

CDs, digital recording and related developments have created higher fidelity in the home - and higher standards for live sound reinforcement. Still, some consider our approach to console engineering extremist. They think it unnecessary to reduce crosstalk between groups to a level typically 17 dB below conventional mixing consoles. Or to utilize a military multiple grounding system that virtually eliminates hum generation. To offer transformer balanced mic inputs and line outputs as options, or use rigid steel center trusses and



DETAIL: Auxiliary modules have three band EQ with variable Mid frequency for more usable, functional outputs.

DETAIL: Standard inputs have LED level meters next to input faders for accurate, timely signal monitoring.

DETAIL: All input modules give positive LED visual indication of EQ in/out status.

flexible "mother loom" wiring harnesses to minimize mechanical stress on circuit cards.

We consider all these steps essential, because exceptional performance is the most reliable way to deliver accurate sound under less than ideal conditions. We share that attitude with Klark-Teknik, our parent company.

Options for job-specific configurations

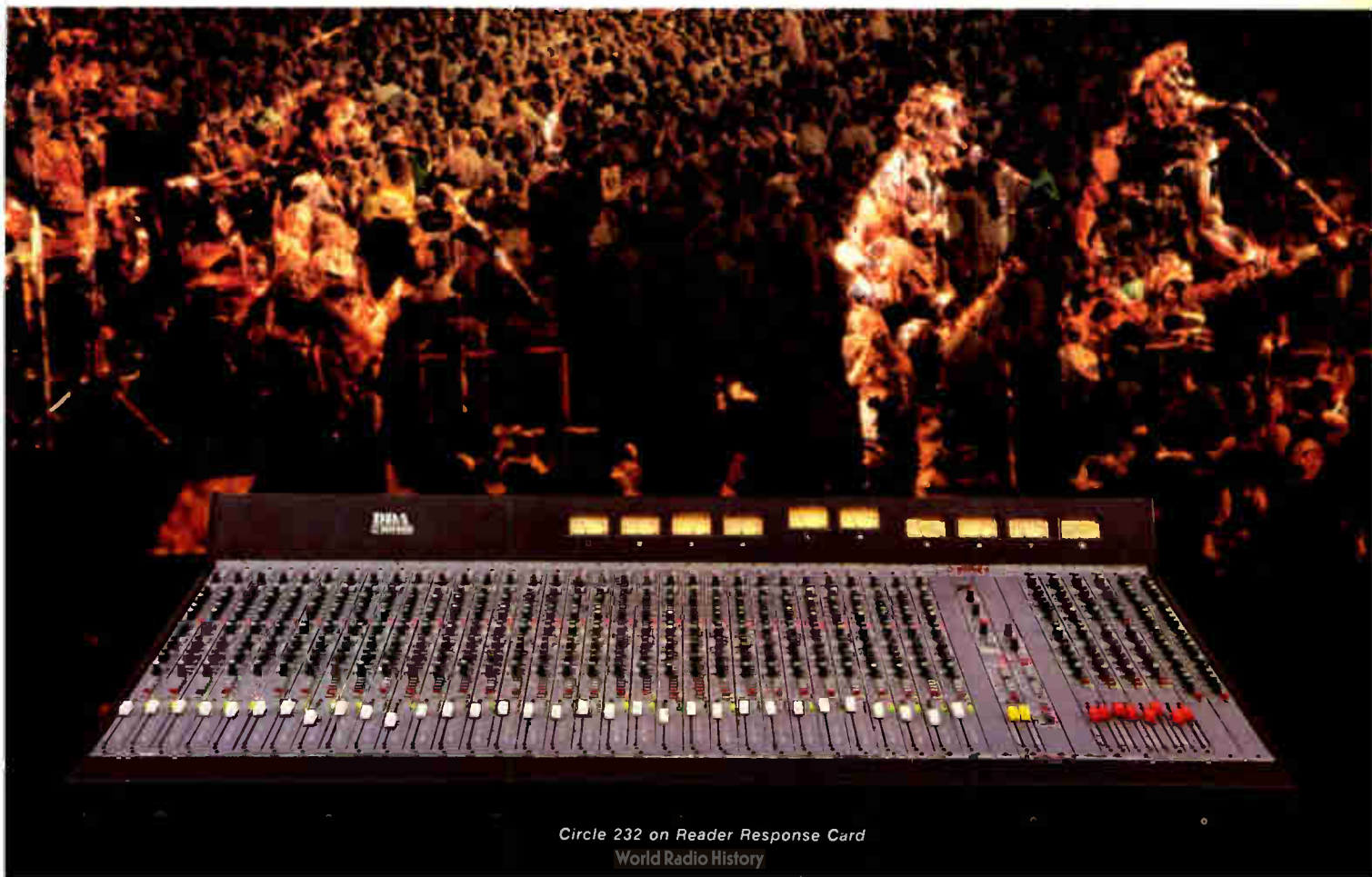
Your live sound console must have the flexibility to do the job your way - and the versatility to cope with unexpected difficulties. The informed, insightful design of D Series consoles gives you a selection of eleven different module types, each optimized for a different job. Configure 36-, 48- or 56-space frames with any combination of Standard, Monitor, Theater or Stereo inputs, Recording, PA or Matrix outputs and Stereo, Monitoring or Auxiliary Master modules. All achieve audio performance that is equal to the most demanding applications, including live-to-digital recordings. D Series consoles are presently used by major British sound companies and studios for reinforcement and remote recording applications.

The extensive features and functions of D Series modules and consoles are detailed in an eight page brochure. To get one, send your business card or letterhead to:

DDA D SERIES

Klark-Teknik Electronics Inc., 30B Banfi Plaza North Farmingdale, NY 11735 (516) 249-3660

Unit #1, Inwood Business Pk., Whitton Rd. Hounslow, Middlesex, UK TW3 2EB



Products: audio consoles and amplifiers for sound reinforcement and broadcasting.

Broadcast Electronics Inc., 4100 N. 24th St., Quincy, IL, 62305, 217-224-9600

President: L. Cervon

V.P. Marketing: C. Kring

Audio Sales Manager: T. Bealor

RF Sales Manager: B. Harland

Int'l. Sales Manager: E. Corujo

Products: audio mixing consoles, tape cartridge recorders/players, FM transmitting equipment (low, medium, and high power).

CADD, Inc., 1875-D Panama St., Brossard, Que., Canada, J4W 2S8, 514-672-8862

Products: touring consoles, digital crossovers.

Calrec Audio Limited (Calrec By AMS), P. O. 31864, Seattle, WA, 98103, 206-633-1956, TLX: 4900001180 (CAL UI)

Managing Director: K. Farrar

Director: D. S. Jagger

Director: C. M. Waddington

Director: J. S. Nevison

Sales/Mkt'g Manager: N. Branwell

Products: high grade and audio mixing systems, microphones include the "soundfield" and full range of condenser microphones. Calrec is a custom console builder and also produces the UA8000 music console and digitally assignable broadcast consoles.

See full listing under **Microphones**

Cetec Ivie, 1366 West Center St, Orem, UT, 84057, 801-224-1800

President: Craig Berry

Mkt'g Manager: Glen Meyer

Production Manager: Larry Driskill

Products: a complete line of modular sound reinforcement electronics including mixers, equalizers, amplifiers, etc.

We also have a line of octave & 1/3 octave hand-held real time analyzers and stand alone automatic microphone mixers.

See full listing under **Audio Signal Processors**

Cetec Raymer, 7315 Fulton Ave., N. Hollywood, CA, 91605, 213-875-0423

President: Hugh T. Wilcox

Products: audio equipment for paging, background music and sound systems, including amplifiers, tuners, receivers, test equipment, telephone interconnect devices and accessories. Direct connection telephone trunk and station access paging devices.

See full listing under **Paging Systems**

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-962-6009

Products: a full line of paging products.

See full listing under **Paging Systems**

Connectronics Corporation, 652 Glenbrook Road, Stamford, CT, 06906, 203-324-2889, 800-322-2537

Exec. V.P.: Richard Chilvers

Products: specialized high-flexibility colored audio wire and cable-everything from microphone cable through 32-pair

foil-shielded multipair, from phono cable to individually shielded and jacketed and color-coded multipairs, from "starquad" to heavy-duty four conductor speakerflex.

Portable audio mixing console from "SECK."

See full listing under **Wire/Cable Components**

Creative Audio Design + Development, 18750 Panama, Brossard, Que., CD, J4W2S8, 514-672-8862

President: Pierre Pare

V.P. Engineering: Shane Morris

Engineering R&D: Denis Lambert

Products: house console w/40 mic inputs, 8 stereo returns, 8 mono line inputs, 8 mono aux, 4 stereo aux, 8 matrix outputs, 2 stereo mixing busses, and 3 stereo outputs
Monitor console w/40 mic inputs, 4 aux outputs (remixable to groups), 4 sub inputs, 16 group outputs with 5-band parametric EQ. Digital crossover w/full 16-bit, 3 band stereo 60 dB/oct linear phase.

D & R USA, 1720 Chip N Dale Drive, Arlington, TX, 76012 817-548-1677

Nat'l Sales Director: Paul Westbrook

Products: US distribution for II mixers, from disco to fully automated studio console. Sound reinforcement and recording mixers with up to 80 inputs. More than 15 different rack-mount signal processors.

DAX Audio Group, Inc., 1231 S.E. Gideon St., Portland, OR, 97202, 503-232-4445

President: Rich Stevenson

Engineering Manager: Bob Herb

Products: graphic equalizers, 31-bands, dual 15-band, ar dual 31-bands; mixing consoles from 8x2 to 32x8; powered mixers in 6 and 8 channels; real-time analyzer; amplifier; crossover.

District Offices:

Bob White Assoc., Solon, OH, 216-248-1317

Professional Sound & Lighting, Lakewood, CO, 303-986-5999

Innovative Sales & Marketing, Fountain Valley, CA, 714-549-7770

DDA, 30B Banfi Plaza N, Farmingdale, NY, 11735, 516-249-3660

President: Jack Kelly

Sales Manager: Keith Worsley

Salesman: Harry Klane

Service Manager: Jim Jacobelli

Products: PMC Series for portable use (ENG/EFP), two, four (S Series), and eight bus (D Series) for production, reinforcement, and recording applications, AMR Series 24 bus split, 32 bus in-line.

District Offices:

DDA/Klark-Teknik West, Oakland, CA, 415-482-1800

Derek Allen Assoc., Toluca Lake, CA, 818-840-8327

Professional Audio Marketing, Melville, NY, 516-367-8621

Audio Resources, Westmont, IL, 312-655-1180

M. Chafee Enterprises, Sarasota, FL, 813-921-4294

Dean Markley Electronics Inc., 3350 Scott Blvd., Suite 45 Santa Clara, CA, 95054, 408-988-2456, 800-538-8330

President: Dean Markley

Executive V. P.: Bari Wilson

Nat'l Sales Manager: Tom Dreibelbis

Products: professional audio sound systems and support

powered and non-powered mixers, powered and unpowered enclosures, power amps, microphones, cables and accessories.

See full listing under **Pro Audio Sound Systems & Products**

Design Direct Sound, 6850 35th N.E., Suite 1, Seattle, WA, 98115, 206-527-4371

President: Bob Rice

Vice President: Pat Peterson

Vice President: Marc Hall

Marketing: Mark Dodge

Products: Walker/DDS 80 Series mixing desk is an 8 buss board with a 10 X 8 matrix output, resulting in 18 balanced outputs. The 80 Series offers many of the benefits of full blown 8 buss boards with substantial savings.

See full listing under **Pro Audio Sound Systems & Products**

Dorrough Electronics, 5221 Collier Pl., Woodland Hills, CA 91364, 818-999-1132

President: Mike Dorrough

Products: Bourrough Loudness Meter simultaneously displays peak and average on one LED array. The ballastics were designed to show equal perceived power between peak and average regardless of the complexity of audio waveforms.

See full listing under **Pro Audio Sound Systems & Products**

Edcor, 1948 East Pomona, Santa Ana, CA, 92705, 714-863-1529, 800-854-0259

Sales Manager: Deanna Weston

Chief Engineer: Luis Bonand

Production Manager: Tina Lopez

Treasurer: Phyllis Weston

Products: complete line of electronic commercial sound products including power & mixer amplifiers, E-Q amps, microphone/line mixers, automatic & gated mixers, wireless microphones systems, translation systems, transformers and private label products.

See full listing under **Pro Audio Sound Systems & Products**

Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Director of Marketing: Jim Long

Chief Engineer: Earl Harris

Products: mixers, mixing consoles.

See full listing under **Pro Audio Sound Systems & Products**

Fostex Corp. of America, 15431 Blackburn Ave, Norwalk, CA, 90650, 213-921-1112

President: Y. Abe

V.P. General Manager: Fred Huang

V.P. Sales/Marketing: Mark Cohen

National Sales Manager: Mike Flynn

Products: a full-line for the Pro contractor including the MP Series multi-purpose powered mixers, SP & SPA11 portable speakers for many applications, raw frame speaker components from 18" to super tweeter, monitors,

HME INTRODUCES A REVOLUTIONARY BREAK THRU IN MIXERS...

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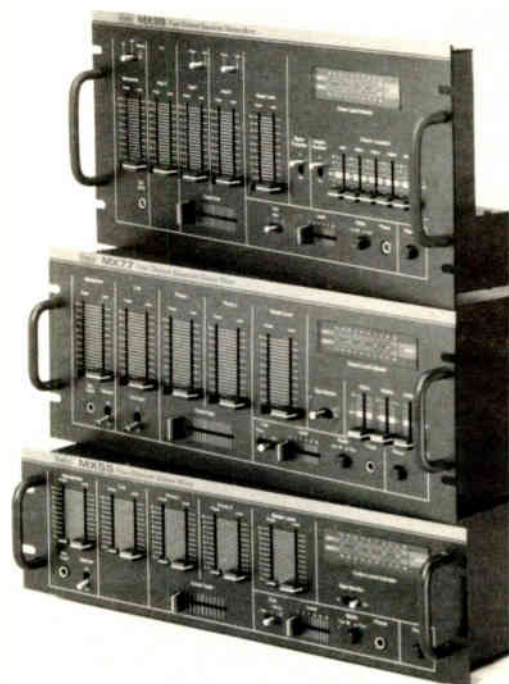
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headphones, and microphones.
See full listing under **Pro Audio Sound Systems & Products**

Furman Sound, Inc., 30 Rich St., Greenbrae, CA, 94904, 415-927-1225
President: Jim Furman
Sales Manager: Joseph Desmond
Chief Engineer: Jim Murphy
Materials Manager: Ed Specht
Products: 24 DB/Octave crossovers; graphic and parametric equalizers, limiter/compressor/expanders; quad noise gates; patch bays; power conditioner and light modules (PL-8 and PL-PLUS); rack mount mixers; power output monitors; digital reverb systems.
See full listing under **Audio Signal Processors**

Galaxy Audio, 625 East Pawnee, Wichita, KS, 67211, 316-263-2852
Manager: R. D. Moneyhun
Products: Hot Spot Monitors - Hot Spot P.A. monitor/portable P.A. - Pro Spot Speakers/stage monitors - mixers, 8, 12 and 16 channels.
See full listing under **Pro Audio Sound Systems & Products**

Gotham Audio Corp., 1790 Broadway, New York, NY, 10019-1412, 212-765-3410
President: Russ R. Hamm
Eastern Sales Mgr.: Jerry Graham
Western Sales Mgr.: Juergen Wahl
Sales Engineer: Peter Engel
Products: Neumann condenser microphones, limiters/compressors, and equalizers and accessories; EMT digital delays; Gotham audio cable; K & H loudspeakers, and parametric equalizers; Audio Developments mixers; NTP limiters/compressors and meters.
See full listing under **Microphones**

Harrison Systems Inc., P.O. Box 22964, Nashville, TN, 37202, 615-834-1184, TLX 555133, Fax 615-834-1365
V. P. Sales/Mkt'g: Claude Hill
V. P. Mkt'g Comm.: Brad Harrison
V. P. Broadcast Sales: Dave Purple
Broadcast Prod. Mgr: Martin Burns
Products: audio mixing consoles for primary applications in music scoring and remix; sound reinforcement; radio production and on-air; television production, post-production, and edit suite; motion picture sound post-production.
District Offices:
Jerry Smith, Los Angeles, CA, 818-763-2349

Hill Audio, Inc., 5002#B N. Royal Atlanta Dr., Tucker, GA, 30084, 404-934-1851
President: David Ash
Sales Manager: Bob Allen
Chief Engineer: Rick Rogers
Financial Administrator: Viginia Ash
Products: power amplifiers from 200 to 3,000 watts and mixing consoles featuring 16-channel rack-mount through 48-channel modular. The modular consoles have the new "Sidetraker" EQ as standard equipment.
See full listing under **Pro Audio Sound Systems & Products**
Industrial Research Products, 321 Bond St., Elk Grove

Village, IL, 60007, 312-439-3600
General Manager: Mahlon Burkhard
Marketing Manager: Roger Carroll
Products: transversal equalizers, automatic microphone mixers, digital delay lines, power amplifiers, level-matic limiter.
See full listing under **Pro Audio Sound Systems & Products**

Innovative Electronic Designs, Inc., 9701 Taylorsville Rd, Louisville, KY, 40299, 502-267-7436
President: Hardison G. Martin
V.P. Engineering: Robert Ponto
Treasurer: Ray Allen
Dir. Mkt'g. & Sales: Tom Roseberry
Products: models 500 & 500AC microcomputer controlled audio systems, controlling mixing, routing, and level adjustment. 4000 automatic mixer, 5000 audio processing system. 70-volt and low impedance 8ohm version 6270 power amplifier.
See full listing under **Pro Audio Sound Systems & Products**

JBL Professional, 8500 Balboa Blvd, Northridge, CA, 91329, 818-893-8411
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Market Manager/Sound Contracting: Steve Romeo
Products: high quality loudspeakers and loudspeaker systems of all kinds; automatic microphone mixer; electronic crossover; special loudspeakers for musical instruments; video projector.
See full listing under **Loudspeakers**

Logitek, 3320 Bering Dr., Houston, TX, 77057, 713-782-4592
Products: audio consoles and amplifiers.

Micro-Trak Corp., 620 Race St., Holyoke, MA, 01040, 413-594-8501
Products: consoles, tone arms, amplifiers, packaged audio systems.

Midas Audio Systems Ltd., 54-56 Stanhope St., London, UK, NW1 3EX, 01-388-7060
Managing Director: John Grumbridge
Sales Manager: Peter Cornell
Products: audiophile-quality signal processing and routing of great adaptability are combined in a console of renowned durability and reliability. New features for 1987 include 8x8 matrix and stereo subgroups.

Neotek Corporation, 1154 West Belmont Avenue, Chicago, IL, 60659, 312-929-6699
Chief Executive: Craig Connally
Director Marketing: David Rutenberg
Sales Manager: Sue Gosstrom
Production Manager: Oliver Masciarotte
Products: professional audio consoles for sound recording, broadcast, film, theater, video-post, and production applications. Each console is custom-hand built in the United States per user specification.
District Offices:

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Martin Audio, New York, NY, 212-541-5900
Audio Engineering Assoc., Pasadena, CA, 818-798-9127
Pyramid Audio, South Holland, IL, 312-339-8014
Pro Media, San Francisco, CA, 415-957-1383
Sonotechnique, Montreal, CN, 514-739-3368

Numark Electronics, 503 Newfield Ave., Edison, NJ, 08837, 201-225-3222
President: Harry Kotovsky
Vice President: Robert Kotovsky
National Sales Mgr.: Richard Krochmal
Technical/Serv. Manager: Rick Kamlet
National Sales Manager: Dewitt Smith
Products: professional music mixers, turntables, equalizers, mobile DJ systems, speaker systems, professional audio/video digital mixers, and a complete line of audio accessories.
See full listing under **Disco Components & Systems**

Panasonic Industrial Company/Ramsa, 6550 Katella Ave, Cypress, CA, 90630, 714-895-7272
National Marketing Mgr.: Steve Wooley
Products: Ramsa, the professional audio division of Panasonic Industrial Company's Audio/Video Systems Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.
See full listing under **Pro Audio Sound Systems & Products**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Sgueglia
Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365
Prod Mgr/Sound Reinf.: Hollis Calvert
Prod Mgr/Digital Product: Ken Valentine
Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.
See full listing under **Pro Audio Sound Systems & Products**

Professional Sound Corporation, 5707 Cahuenga Blvd., N. Hollywood, CA, 91601, 818-760-6544
President: Al Krist
Chief Engineer: Ron Meyer
Products: mobile soundmixers specializing in import and distribution of brand names in high technology products for the entire entertainment industry.
District Offices:

Audio Services, Los Angeles, CA, 818-980-9891
Audio Services, New York, NY, 212-977-5150
Cell Communications, Miami, FL, 305-584-8331
Cinequipt, St. Paul, MN, 612-646-1780
H. Y. James, Framington Hills, MI, 313-471-0027

Quantam Audio Labs, 2752 Walnut Ave., Tustin, CA, 92680, 714-838-8833
CEO/Chairman: Roger L. Bailey
General Manager: Stuart J. Dunford
Communications Manager: Dan Hair
Products: the QS 22 range of broadcast/production audio consoles from 8- to 28-input modular configurations for the world market.

Rane Corp., 6510 216th S.W., Mountlake Terrace, WA, 98043, 206-774-7309
V.P. Marketing: Larry Winter
Dir. Tech. Dev.: Terry Pennington
Products: graphic and parametric equalizers, real-time analyzers, headphone amps, active crossovers, program mixers, splitters, compressor/limiters.
See full listing under **Audio Signal Processors**

Recordex Corp., 1935 Delk Industrial Blvd., Marietta, GA, 30067, 404-955-7368

Richmond Sound Design Ltd., 1234 West 6th Ave., Vancouver, BC Canada, V6H 1A5, 604-734-1217
President: Charlie Richmond
Products: Command/Cue 4096 Automation Systems & Modules are designed to control up to 4096 separate audio channels. Software is disk based and may be customized for any particular application. Technical specifications are high and operation friendly.
District Offices:
Full Compass Systems, Madison, WI

Rupert Neve Inc., Berkshire Industrial Park, Bethel, CT, 06801, 203-744-6230
President: Barry J. Roche
V. P. of Sales: Anthony H. Langley
E. Reg. Sales Mgr.: Phil Wagner
S. E. Reg. Sales Mgr.: Tom Semmes
W. Reg. Sales Mgr.: Rick Plushner
Products: audio consoles for the music, television, post production, film and mastering industries. Consoles include Neve's V Series multitrack recording console, Necam 96 - Neve's computer assisted mixdown system, 8232 music recording console, 51 Series stereo console for broadcast, the 542 Series consoles tabletop and portable for remote broadcast and the Digital Transfer Console (DTC) for compact disc mastering.
District Offices:
Hollywood, CA, 213-874-8124
Nashville, TN, 615-385-2727
New York, NY, 212-956-6464
Neve Electronics, Melbourn, Royston, Eng.

Sennheiser Elec. Corp., 48 W. 38th St., New York, NY, 10018, 212-944-9440
Products: a full line of microphones (dynamic, electret, and condenser) as well as RF (hand-held, body-pac, single channel, diversity/non-diversity, and rack-mount), infrared listening equipment, headphones and portable mixers.
See full listing under **Microphones**

Such annual reports as the May Contracting Business In-Depth Market Report and the December Industry Report keep readers well-informed on new industry trends, what's on the horizon in the sound and communications contracting market and the state of the economy as it relates to the industry. Special pull-out sections—from mixing consoles to alarm & security—provide the sound contractor with a diverse selection of products to choose from to suit his particular needs.

Look for these special features and more in upcoming issues of **Sound & Communications**.

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In developing our newest console, we invited the engineers, consultants and contractors you see here to be a vital part of the mix. We asked them what works and what doesn't. What they like and don't like. What they want. And what they don't want.

We took this input and combined it with our own experience that includes nothing less than the development of the well-known PM1000 and PM2000. The result is an extraordinarily responsive, reliable, versatile mixing console, the PM3000. A console able to meet the demands of concert tours, fixed installations and broadcast applications by combining new technologies and ideas with proven Yamaha reliability.

In designing the PM3000, we considered not only where it will be used but also how

it will be used. That's why the overall size and weight of the PM3000 are less than its predecessor's. Why the meter bridge height has been lowered. And why the 40-channel model has a center master configuration.

Greater control over equalization was another important consideration. Each input channel has a four-band parametric equalizer with a variable frequency high pass filter. The

12dB/octave high pass filter has its own in/out switch and its -3dB cutoff frequency is sweepable from 20Hz to 400Hz. This range makes

it useful in minimizing the effects of low frequency stage rumble, vocal pops or wind noise. This high pass filter is also useful when micing high-hats or cymbals, to reduce the unwanted pick-up of nearby drums. Each of



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technical achievement.*

Pictured (rear, l. to r.) Jay Kingery, Recording Consultants, Inc.; Herb Stewart, Harrah's-Tahoe; John Windt, Windt Audio; Rick Southern, Southern Star Engineering; Gary Dutt, Wales, Sonics Assoc.; Al Simiscal and Bobby Ross, A-1 Audio; Craig Olsen, Product Mgr./Yamaha. Not pictured: Chris "Smoother" Smyth and Stew Venezia, Delicate Audio



PM3000's input channels.

the four stereo AUX returns also has its own two-band sweep-type EQ.

The PM3000's transparent sound quality is achieved by utilizing matched components in its electronic differential input stages. Yet it still retains a high degree of stability and common mode rejection. For those situations where the extra common mode rejection of a transformer is needed or where total grounding isolation is necessary, the optional IT3000 input transformers can be installed on a channel-by-channel basis.

To help accommodate the increased number of effects used in the real world today, the PM3000 provides eight AUX sends, each with level control and pre/off/post switch.

There are also eight VCA groups. We designed and built our own VCAs to insure that they would be stable enough to withstand

the effects of constantly changing environmental conditions.

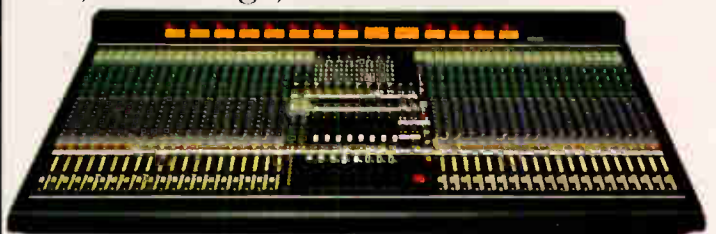
We also incorporated extensive and flexible muting capabilities into the PM3000. Each input channel has eight mute assign switches that permit the channel's on/off function to be controlled by the eight master mute switches. That means multiple channels can be muted or turned on at once, making scene changes or punch-ins quick and convenient. The mute-safe switch on each channel guards against inadvertent channel muting, if desired.

While the VCAs allow tremendous level control flexibility, conventional group busses and faders are provided for routing and signal processing purposes. These master faders are assignable to our unique mix matrix feature, the stereo buss and to the rear panel XLR connectors.

You'll appreciate the convenience of the PM3000's extensive cue and solo capability. Especially during sound checks. The ability to solo one channel while muting all inputs except the one being monitored makes sound checks a lot easier.

As previously stated, it was input from professionals like the ones you see here that enabled us to design a console as impressive and versatile as the PM3000. The result of all this can be heard at your Yamaha Professional Audio Dealer. More complete technical information is available from Yamaha Music Corporation, Professional Audio Division, P.O. Box 6600, Buena Park, CA 90622. In Canada, Yamaha Canada Music Ltd., 135 Milner Avenue, Scarborough, Ontario M1S 3R1.

Mary Davis & Assoc. (front, l. to r.) Bill Schuermann, Antech Labs; Lynn McCrosky and Alvin Michael Wickow and John Henderson, Little River Band; Ken Fause, Smith, Fause & Assoc.



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Shure Brothers, Inc, 222 Hartrey Ave, Evanston, IL, 60202-3696, 312-866-2200

President: James Kogen

V.P. Sales/Mkt'g: Richard Murphy

Marketing Manager: Sandy Schroeder

Sales: Tim Vear

Sr. Product Cdr: Max Ann Buchanan

Products: microphones and accessories, wireless microphone systems, mixers and related circuitry products, automatic microphone systems, compact sound reinforcement systems, teleconferencing systems.

See full listing under **Microphones**

Sony Professional Audio, 1600 Queen Anne Road, Teaneck, NJ, 07666, 201-833-5200

President: William G. Connolly

Vice President: Jerry Smith

Products: analog and digital audio recorders, compact disc mastering systems, mixing consoles, microphones(wired and wireless), monitoring equipment and public address systems.

See full listing under **Pro Audio Sound Systems & Products**

Sound Workshop Professional Audio Products, Inc., 50 Werman Ct., Plainview, NY, 11803, 516-756-0140

Sales Manager: Lee Pomerantz

Products: the Series 34C Record/Mix Console, which is used in all audio production applications including music recording, film and video post production and industrial applications. Console is available in a wide range of sizes and configurations to suit most needs.

Soundcraft USA, PO Box 2200, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411, FAX: 818-893-3639

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Nat'l. Sales Mgr.: David Kimm

Tech. Applications: Gordon Cochran

Products: audio mixing consoles and multi-track tape machines. Applications include sound reinforcement, live recording, studio recording, remote recording, broadcast and post production.

District Offices:

Neil Conly, Bedford, TX, 817-540-3066

Bill Hamilton, Folsom, PA, 215-543-4677

Steve Armstrong, Northridge, CA, 818-707-2529

Steve Armstrong, Northridge, CA, 818-707-2529

Soundtracs USA, 77 Selleck St, Stamford, CT, 06902, 203-348-2121

President: S. Richard Ravich

Operations Manager: Derek Pilkington

Product Specialist: Tim Derwallis

Products: mixing consoles for all applications including; sound reinforcement, studio recording, remote recording, post production, broadcast, MIDI, monitoring, rack mountable, computer automation and public address.

Spectra Sonics, 3750 Airport Rd., Ogden, UT, 84405, 801-392-7531

President/Owner: William G. Dilley

Engineer/Sales: Gregory D. Dilley

Products: amplifiers, mixers, equalizers, compres-

sor/limiters, power supplies, speaker systems, and consoles. We specialize in sound reinforcement equipment. See full listing under **Pro Audio Sound Systems & Products**

St. Louis Music, 1400 Ferguson Avenue, St. Louis, MO, 63133, 314-727-4512

Sales Training Dir.: Tony Moscal

Product Manager: Gary Byers

Dir. of Operations: John Karpowicz

President: Gene Kornblum

Products: musical instrument amplifiers, sound reinforcement equipment, mixing consoles, loudspeakers, power amplifiers.

See full listing under **Pro Audio Sound Systems & Products**

Studer Revox America, Inc., 1425 Elm Hill Pike, Nashville TN, 37210, 615-254-5651

V. P./Gen. Mgr.: Thomas E. Mintner

Dir. of Prof. Products: David C. Bowman

Products: audio recorders - super low speed loggers and playback only machines to 2-inch multichannel; professional CD players & cassette recorders; computer controlled automation interface; mixing consoles - 19-inch & portable units to complete studio systems; amplifiers & loudspeakers.

See full listing under **Pro Audio Sound Systems & Products**

Sunn, 1130 Columbia Street, Brea, CA, 92621, 714-990-0909

President: Bill Schultz

Director of Mkt'g: Joe Green

National Sales Mgr.: Don Johnston

Products: sound reinforcement products include: powered and non-powered mixers, mixing consoles, power amplifiers and speaker enclosures. Professional stage lighting products.

See full listing under **Pro Audio Sound Systems & Products**

Tascam/TEAC Professional Division, 7733 Telegraph Road, Montebello, CA, 90640, 213-726-0303

Marketing Manager: Bill Mohrhoff

Sales Manager: Gregg Hildebrand

W. Reg. Manager: Fred Allard

S. Reg. Manager: Bill Stevens

E. Reg. Manager: Chuck Prada

Products: professional recorder/reproducers from 1/4" 2-track to the ATR-80, a new 2" 24-track designed for video production. Recording and performance consoles from 6-input to the M-600, a 32-input/16-buss large frame console. Also, receivers, cassette decks, and CD players.

See full listing under **Magnetic Tape Systems & Supplies**

Television Technology Corp., P.O. Box 1385, Broomfield CO, 80020-8385, 303-465-4141

Products: AM, FM, and TV transmitters; FM & TV rebroadcast translators; audio cartridge machines and open-reel recorders.

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida
V. P./Treasurer: Tom Kohsaka
V. P.: Bill Hooper
Controller: Cal Weddle
Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.
See full listing under **Pro Audio Sound Systems & Products**

Trident Audio USA, 2720 Monterey St., Ste. 403,
Torrence, CA, 90503, 213-533-8900
President: Wayne D. Freeman
Sales Mgr.: Lon LeMaster
Products: analog and digitally-controlled analog mixing consoles for recording and sound reinforcement application.

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Mkt'g. Mgr. Sound Contracting: Steve Romeo
Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.
See full listing under **Audio Signal Processors**

Ward-Beck Systems Ltd., 841 Progress Ave.,
Scarborough, Ontario, Canada, M1H 2X4, 416-438-6550,
FAX: 416-438-3865
President: Ronald W. Ward
Vice President: Rodger K. Beck
Dir. of Engineering: Arthur A. Schubert, Jr., P. Eng.
Canadian Sales Mgr., Eugene L. Johnson
Sales Cdr.: Sylvia Fantin-Napper
Products: Professional audio mixing consoles, for the radio and television industries; Broadcast type communications systems; and audio accessories including Distribution amplifiers, Extended range VU and PPM meters, and Audio jackfield products.
District Offices:
William F. McFadden, Danvers, MA, 617-777-7228
Duke McLane, Dallas, TX, 214-247-5999

Wheatstone Corporation, 6720 VIP Parkway, Syracuse,
NY, 13211, 315-455-7740
President: Gary Snow
V. P. Engineer: Andrew Calvanese
Marketing Coordinator: Michael Shane
National Salesman: Tim Guhl
Sales: Pattye Bagshaw
Products: Wheatstone MTX-1080 Sound Reinforcement Console features programmable muting, 8 effects send controls, 4-band sweepable, equalization with switchable Q and peak/shelf modes; tunable HPF; separate electronically balanced MIC and line inputs; XLR direct channel outputs; 8-11 X 1 input matrix mixes.

Wissco, 1599 Superior Ave., A-1, Costa Mesa, CA, 92627,

714-645-1281
President: J. Wanlass
Products: wireless microphones and receivers, power megaphones, sound lecterns, mobile sound systems, portable PA systems, mixers, speakers, telephone intercom systems, professional sound systems, amplifiers, power supplies, AC regulators, IR links.
See full listing under **Microphones**

Yamaha International Corp., Audio Products Division, 6600
Orangethorpe Ave., Buena Park, CA, 90620, 714-522-9011
Gen. Mgr.: John Gatts
Nat'l. Sales Mgr.: Bob Shomaker
Adv. Mgr.: Robert T. Davis
Products: full line of audio mixing consoles, power amplifiers, speaker systems, digital signal processing equipment, and microphones.
See full listing under **Pro Audio Sound Systems & Products**

A TOTAL COMMITMENT

SOUND & COMMUNICATIONS
is published 12 times a year and includes bonus distribution at the NSCA Expo (May), AES (Nov.) and IBMA (Oct.).

SOUND & COMMUNICATIONS
publisher and editors also produce NSCA-TV News, the only closed-circuit television news program of the National Sound and Communications Association Expo. NSCA-TV is seen in every hotel room and on the convention floor, keeping attendees up-to-date on Expo happenings.

In addition, **SOUND & COMMUNICATIONS** publishes its annual August **Blue Book**, the sound contracting industry's only "A to Z" reference guide. Special editions also include the annual May Contracting Business In-Depth Market Report and the annual Industry Report published in December.

PAGING SYSTEMS

Aiphone Intercom Systems, 1700 130th Ave. N.E. ,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking, telephone-type, video intercom entry systems, paging talkback, microprocessor intercom systems, mixer amplifiers, paging speakers, horns, drivers, ceiling speakers, tuners, and special order products.

See full listing under **Intercom Duplex**

Amplivox Communication Products/Security Intercom, Inc., 1833 N. 105th, Seattle, WA, 98133, 206-523-6170

President: Gerard H. Mooyman

Director of Sales: Jeffrey L. Groth

Sales Manager: Claudio Mazzola

National Advertising: John Bernard

Products: centralized sound distribution P. A. background music systems up to 50 zones in hotels, motels, department stores and convention centers. Five F. M. programs distributed system wide, self-amplified speakers, microphones, horns, directional sound columns.

District Offices:

RIK Assoc., Inc., Tacoma, WA, 206-759-0833

Bogen Communications, Inc., PO Box 575, 50 Spring St., Ramsey, NJ, 07446, 201-934-8500

President: John H. Ochtera

V.P. Marketing: Carl C. Dorwaldt

Nat'l. Sales Mgr.: David A. Chambers

Products: commercial sound and communication systems and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.

See full listing under **Audio Amplifiers**

Cetec Raymer, 7315 Fulton Ave., N. Hollywood, CA, 91605, 213-875-0423

President: Hugh T. Wilcox

Products: audio equipment for paging, background music and sound systems, including amplifiers, tuners, receivers, test equipment, telephone interconnect devices and accessories. Direct connection telephone trunk and station access paging devices.

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-962-6009

Products: a full line of paging products.

Communications Products, Inc., 4911 W. Good Hope Rd., Milwaukee, WI, 53223, 414-351-4660

Products: door monitor systems, silent paging.

Communitron Corp., 1004 S. Main St., Hutchison, KS, 67501, 800-835-2256

Products: paging telephone systems, telephones, amplifiers and control equipment.

Community Light & Sound, Inc., 333 E 5th St., Chester,

PA, 19013, 215-876-3400

President: Bruce Howze

V. P. of Engineering: John Wiggins

Vice President: Christine Howze

Director of Mkt'g: John Strand

Products: sound reinforcement loudspeakers for background, foreground and paging. Two, three, & four way loudspeakers systems for use in churches, schools, night clubs, restaurants, and portable live applications. Pattern Control horns, midrange compression loudspeakers and components for engineered sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Cornell Electronics Products, Inc., 4911 W. Good Hope Rd., Milwaukee, WI, 53223, 414-351-4660

President: Donald Glaubitz

V.P. and Chief Engineer: Gary Butler

Sales Manager: Pauline Haack

Products: visual nurse call, audio visual nurse call, door monitors, apartment intercom, in/out register, institutional intercom, silent paging.

See full listing under **Intercom Hospital Health Care**



Dukane Corporation, 2900 Dukane Dr., St. Charles, IL, 60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

District Offices:

Doug Randle, Carpentersville, IL, 800-445-0152(2301#)

Don Mouritzen, Chicago Heights, IL, 800-445-

0152(2303#)

Art Sbrilli, Edison, NJ, 800-445-0152(2302#)

Pete Kendall, Jacksonville, FL, 904-262-6025

Jack Brown, Dallas, TX, 214-943-7528

Gabriella Chambers, Westminster, CA, 714-839-8835

Ed Nuhring, Portland, OR, 503-244-4264

Ken Lind, Wellesley Hills, MA, 617-235-6817

Bruce Barrett, Garland, TX, 214-495-2751

Norm Hagemann, Batavia, IL, 312-584-2300

Wally Smutts, Toronto, Ontario, Canada, 312-584-2300

Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Director of Marketing: Jim Long

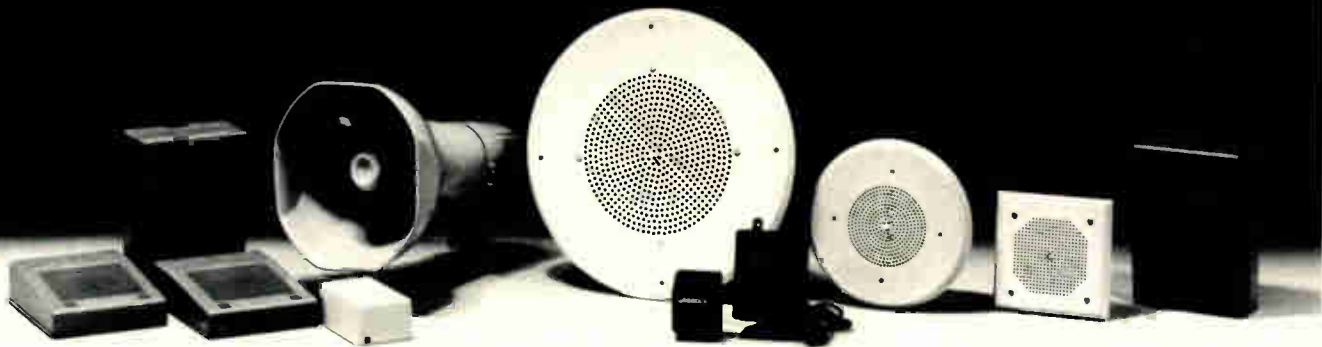
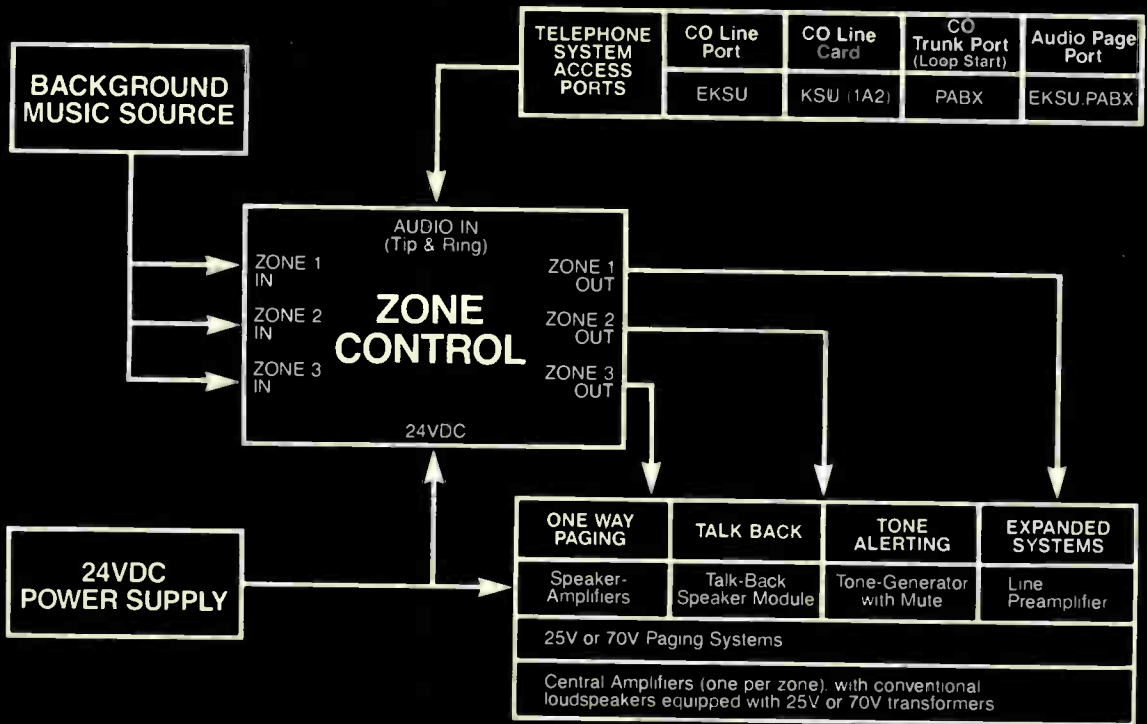
Chief Engineer: Earl Harris

Products: communications and PA microphones, public address and loudspeaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Need telephone system paging enhancements that are:

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Eltrex International, 2 Columbia Dr., Amherst, NH, 03031, 603-886-3500

Products: digital voice recorder, auto answer and playback.
See full listing under **Message Repeaters/Storecasters**

Encom Products Co., Inc., P.O. Box 300, 502 Lower Hopewell Road, Oxford, PA, 19363-0300, 215-932-9600
Sales: Bob Mallalieu

Products: Common-talk page phone equipment for commercial/industrial applications ranging from bowling alleys to waste water treatment plants.

See full listing under **Intercom Industrial**

Graystone Systems Ltd., Bradley Corp. Pk, 300 Corp. Dr., Ste #5, Blauvelt, NY, 10913, 914-353-0600, 800-952-9528, FAX: 914-353-0657

President: Ruben F. Graystone

V.P. Engineering: Steve Shaki

Sales Manager: Christopher LoCascio

Products: manufacturer of intercom equipment and distributors of closed circuit television equipment for homes, condos, and industry. Suppliers of residential and commercial selective call video intercom systems. Specializing in intercommunications for computer room application. East coast distributor of ELBEX AMERICA.

See full listing under **Intercom Apartment/Residential**

Harris Corporation, Dracon Division, 809 Calle Plano, Camarillo, CA, 93010, 805-987-9511

V.P. Gen'l. Mgr.: John R. Mason

Dir., Domestic Sales: Tom Erdmann

Chief Engineer: Tom Durston

V.P. Sales & Mkt'g.: Jack McGuigan

Products: PAGEPAC telephone integrated loudspeaker paging voice systems, linemen's test sets, craft tools, extensive line of relay racks.

District Offices:

John Muller, Chesapeake Beach, MD

Bob Lincoln, Alpharetta, GA

Chuck Ferreri, Succasunna, NJ

Don Bivens, Lake Elsinore, CA

Jim Orr, Aurora, CO

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: communication and security for apartment house, home and, industry. Intercom, music and paging systems, mailboxes, directories, annunciators, signaling devices, communications cable, nurse-call systems, Interview audio/visual intercom systems.

See full listing under **Intercom Apartment/Residential**

MG Electronics, 32 Ranick Rd., Hauppauge, NY, 11788, 516-582-3400, FAX: 516-582-3229

President: Louis Maltz

Vice President: Elliott Maltz

Sales Manager: Stan Grey

Products: commercial sound and security speakers, paging horns, electronic sirens, general replacement speakers, OEM speakers (custom design available), foreground music speaker systems, and toggle switches.

See full listing under **Loudspeakers**

Midwest Electronics Industries, Inc., 4945 W. Belmont, Chicago, IL, 60641, 312-685-3500

Products: public address systems for buses and trains.

Multi-Vox Ltd., 9967 St. Michel Blvd., Montreal- Nord, Quebec, Canada, H1H 5G7, 514-321-3131

President: Fernand Parent

Engineer: Dominique Malenfant

Operations Mgr.: Georges Morissette

Sales/Technical Cdr.: Antoine Krelio

Products: solid state and microprocessor controlled intercom systems for apartments, hospital and health care facilities, schools, institutions and industries, paging systems, audio amplifiers, chimes, simplex intercom systems.

See full listing under **Intercom Apartment/Residential**

Newbridge Networks, Inc., 13873 Park Center Road #160, Herndon, VA, 22071, 703-834-3600

President: Peter Madsen

Dir. Distributor Sales: Buzz Carder

Mkt'g Services Cdr.: Liz Youngs

Tech. Training Mgr.: Dewayne Gimpel

Dir./Var. Dealer Sales: Frank Ford

Products: GRAPEVINE is the paging and public address network from Newbridge accessed through you home, office, or business telephone system, with speakers designed for large and small, quiet and noisy environments.

District Offices:

John Paonessa, District Offices:

Denver, CO, 303-986-3600

Jim Darrah, Atlanta, GA, 404-395-6611

Glenn McDaniel, Dallas, TX, 214-385-3322

Gary Angell, Wellesley, MA, 617-235-1110

Richard Smith, Herndon, VA, 703-834-3600

Oaktron Industries, Inc., 1000 30th St., Monroe, WI, 53566, 800-257-4538

President/CEO: Jerry Disch

Executive V. P.: Bob Taller

V. P. Sales: Jim Hendrickson

Products: commercial loudspeakers and accessories, sound masking speakers. Background and paging systems and a total line of accessories.

See full listing under **Loudspeakers**

Orevox Corp., 512 35th St. NE, Auburn, WA, 98002, 206-735-0220, 800-237-0700

CEO: Daniel Wu

Sales Mgr.: Russ Stanford

Products: loudspeakers specializing in foreground speakers, outdoor paging and intercom speakers, self-contained sirens, metal siren/speaker enclosures, and metal utility

abinets for residential and commercial applications.
See full listing under **Loudspeakers**

panasonic Industrial Company/Ramsa, 6550 Katella Ave,
ypress, CA, 90630, 714-895-7272
ational Marketing Mgr.: Steve Wooley
Products: Ramsa, the professional audio division of
panasonic Industrial Company's Audio/Video Systems
roup, markets a comprehensive line of mixing and pro-
duction consoles, power amplifiers, microphones and
peaker systems.
See full listing under **Pro Audio Sound Systems &
Products**

aso Sound Products, 14 First St., Pelham, NY, 10803,
14-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Sgueglia
Products: comprehensive line of commercial sound
equipment including 4000 series engineered sound sys-
tems. Hexcolumn loudspeakers, Handler's microphones,
MDS components, Elvox intercoms, packaged sound
systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

owertronix, 10623 Lawson River Ave., Fountain Valley,
CA, 92708, 714-963-5411

President: Robert Gehlke
Sales Mgr.: Bill Organ
Products: self-contained 200 watt voice evacuation sys-
tem; 400 watt current drive distribution amplifiers with 24V-
48VDC emergency back-up power capability; 24VDC mo-
bile amplifier with three electronically-switched, prioritized
inputs.
See full listing under **Audio Amplifiers**

Precision Electronics, Inc., 9101 King St., Franklin Park, IL,
60131, 312-678-5350
President: William S. Grommes
Chief Engineer: A.A. Hart
Sales Manager: William Stow
General Manager: G. Hussain
Products: PA amplifiers, mixer preamplifiers, power ampli-
fiers, am/fm tuners, tuner amplifiers with paging, graphic
equalizers, automatic volume limiter, telephone music-on-
hold amplifier, and sound accessories.
See full listing under **Audio Amplifiers**

Protech Audio Corp., Flowerfield, Bldg. #1, St. James, NY,
11780, 516-584-5855
Sales Mgr.: Bill Murphy
Sales Engineering: Joe Giambone
Products: automatic level controls, voltage controlled am-
plifiers, distribution amplifiers, mixers, tone supervisor sys-
tems, microphone and line preamplifiers, compres-

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SOUND & COMMUNICATIONS

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sor/limiters, switching cards, ramp controlled preamplifiers, engineered and modular sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Reach Electronics, Inc., 1600 W. 13th St., P.O. Box 308, Lexington, NE, 68850, 308-324-6661

Products: pocket radio pagers and manual and dial access paging terminals. Pagers feature Lifeguard® circuitry for long battery life, with no charges.

Sony Professional Audio, 1600 Queen Anne Road, Teaneck, NJ, 07666, 201-833-5200

President: William G. Connolly

Vice President: Jerry Smith

Products: analog and digital audio recorders, compact disc mastering systems, mixing consoles, microphones(wired and wireless), monitoring equipment and public address systems.

See full listing under **Pro Audio Sound Systems & Products**

Spantel Corp., 968 NBC Center, Lincoln, NE, 68508, 402-475-8881

Products: pagers - four year battery life, no recharging; manual encoders, dial access computer memory paging terminals. SCA pagers tone and voice, digital display, generators, paging systems, voice mail.

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers, attenuators, microphones, & intercoms.

See full listing under **Audio Amplifiers**

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550

President: John Howe

Sales Manager/Microphones: Gary Fisher

Sales Manager/Intercom: Claude Kleiman

Director of Marketing: Donald Mereen

Products: dual antenna (diversity) wireless microphone systems, single antenna wireless microphone systems, wired microphones.

See full listing under **Pro Audio Sound Systems & Products**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

UNIVERSITY SOUND, Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Chief Engineer: Earl Harris

Marketing Mgr., Commercial Products: W. Douglas Wilken

Products: horns, drivers, paging/talk-back speakers, and transformers.

See full listing under **Loudspeakers**

Valcom Inc., 1111 Industry Ave., Roanoke, VA, 24013, 703-982-3900

President: J.W. Mason

Sales Manager: Donald Buck

Chief Engineer: D. Lynch

Products: telephone integrated paging and intercom systems, talkback, bell-buzzer, code call, PBX adapters, key telephone systems ancillaries, loud-ringers, power supplies, amplified and talkback speakers.

District Offices:

Kristi LeBlanche, Cardiss By the Sea, CA, 619-463-2662

Terminal Sales, Seattle, WA, 206-441-9610

Dick Kemar, McHenry, IL, 312-699-8656

James F. Somers, Geneva, NY, 315-789-7938

Sandra Sheppard, Carrollton, TX, 214-394-8472

Bill H. Bailey, Hopewell, VA, 804-748-4149

Jeff Steen, Phoenix, AZ, 602-431-1206

Lynn Sandefur, Tampa, FL, 813-391-1231

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707

President: P. W. Tarlton

V.P. Mktg/Sales: W.L. Goldstein

V.P. Engineering: Stephan W. Andrews

Market Mgr. Tel./Paging: Art Arlow

Market Mgr. Life Safety/Ind.: Rein Haus

Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications.

Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.

See full listing under **Alarm & Security**

PATCH BAYS & ROUTING SWITCHERS

ADC Telecommunications, 4900 W. 78th St., Minneapolis, MN, 55435, 612-835-6800

Audio Accesories, Inc, Mill St., Marlow, NH, 03456, 603-146-3335

President: M.B. Hall

General Manager: David Hall

Production Manager: T.J. Symonds

Products: jack panel assemblies, patch cords, bakelite panels, telephone jacks, all miniature and full-size. Patch cord holders.

Audio Visual Systems, 725 Lorraine Blvd., Los Angeles, CA, 90005, 213-934-3006

Products: patch bay system with switchable normals, PCB construction, switches audio and video.

BSM Systems, Inc, W. 7106 Will D. Alton Lane, Suite 106, Spokane, WA, 99204, 509-838-0110

Sales/Mkt'g Director: David M. Pope

General Manager: J. Mike Fitzsimmons

President: Bruce Morse

Products: audio/video routing switchers and distribution amplifiers for use in radio, television, CCTV paging, security, intercom and numerous other applications. BSM's routing switchers are alternatives to patch bays.

Cal Switch, 13717 S. Normandie Ave, Gardena, CA, 90249, 800-CAL—S—W—C—H

President: Irwin Perlman

Vice President: Bob Andrade

Vice President: Herb Poncher

Products: patch bays, pre-wired jack panels, audio connectors, switch assemblies, test equipment, I.D. col-lars, wire and cable, amp connectors.

Conex Electro-Systems, Inc., P.O. Box 1342, 1602 Carolina St., Bellingham, WA, 98227, 206-734-4323

Eng. Director: Bill Hamelin

Gen. Mgr.: John Plattner

Service Mgr.: Jerry Huddle

Products: AS-101 remote controllable audio switcher with RS-422/232 option. UM-33 multi-input monitor/cue amplifier. Sub-audible tone generators and sensors.

EECO Inc., 1601 E. Chestnut Ave., Santa Ana, CA, 92702, 714-835-6000

Products: electronic component switchers.

Gaines Audio, P.O. Box 17888, Rochester, Ny, 14617, 716-266-0780

Grass Valley Group, P.O. Box 1114, Grass Valley, CA, 95945, 916-478-3000

Executive V. P.: Dan Wright

V. P. Marketing: Bob Cobler

Director of Sales: Randy Hood

Products: production and post-production switchers, routing switchers, fiber optic transmission and other telecommunications systems, digital effects systems (Kaleidoscope™), effects memory systems, tape editing and video graphics systems, signal timing/processing/distribution equipment.

District Offices:

Grass Valley Group, Paramus, NJ, 201-845-7988

Grass Valley Group, Elkhart, IN, 219-264-0931

Grass Valley Group, Woodland Hills, CA, 818-999-2303

Hughes Electronic Devices Corp., P. O. Box 1985, Grass Valley, CA, 95945, 916-273-9524, 800-HEDCO GV

Products: audio video rounding switchers

Innovative Electronic Designs, Inc., 9701 Taylorsville Rd, Louisville, KY, 40299, 502-267-7436

President: Hardison G. Martin

V.P. Engineering: Robert Ponto

Treasurer: Ray Allen

Dir. Mkt'g. & Sales: Tom Roseberry

Products: models 500 & 500AC microcomputer controlled audio systems, controlling mixing, routing, and level adjustment. 4000 automatic mixer, 5000 audio processing system. 70-volt and low impedance 8ohm version 6270 power amplifier.

See full listing under **Pro Audio Sound Systems & Products**

International Music Co. (I. M. C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114

Chairman of the Bd./CEO: Tommy Moore

President: Jerry Freed

V.P. Sales: C.H. Murray

Dir. of Akai EMI: Mike McRoberts

Akai Product Specialist: Kevin Kennedy

Products: Akai: multitrack recorders, digital patch bays, digital samplers, electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones, and effects.

See full listing under **Pro Audio Sound Systems & Products**

Neutrik/DIALIGHT Corp., 1913 Atlantic Ave., Manasquan, NJ, 08753, 201-223-9400

Product Mgr.: James Cowan

Dir. of Sales/Mkt'g.: John McNamara

CEO: H. Miller

Products: an extensive line of XLR connectors, receptacles, transformers, goosenecks, modules, patch plugs, phone jack/plugs. Included in the line are weatherproof XLR connectors, a new speaker connector, and "Neutricon" a new miniature connector system.

See full listing under **Wire/Cable Components**

Patch Bay Designation Co., P.O. Box 6278, Glendale, CA, 91205, 818-241-5585

Pro Co Sound, Inc., 135 E. Kalamazoo Ave., Kalamazoo, MI, 49007, 616-388-9675

President: Charlie Wicks

Vice President: Tish Weber

Nat'l. Sales Mgr. Com.: Jeff Garstick

Nat'l. Sales Mgr. Studio: Jerry Smelker

Chief Engineer: Scott Burnham

Products: wire, connectors, audio interface products, cabling assemblies, and custom fabrication. Helix Standard HC/20 multi-pair audio systems for portable and permanent installation, TT448 Patch Bay Systems, Audio Interface, Linear Crystal Multi-pair, and Quad Microphone Cable.

See full listing under **Wire/Cable Systems**

Radical Electronics, 2872 Hartland Road, Falls Church, VA 22043, 703-573-6910

Products: press mult boxes, 20-80 audio feeds.

Touch Technologies, Inc., 363 Adelaide St. E., Toronto, Ontario, M5A 1N3, 416-865-1877
President: W. R. Snelgrove
Director of Engineering: P. Giddings
Director of Mkt'g/Com.: A. Hardman
Products: audio and control systems for distribution and recording of legislature proceedings, routing and level of sound effects for live theatre, and audio/visual controllers for dark rides, exhibits and displays.
See full listing under **A-Visual Equipment/Systems**

Vertigo Recording Products, 12115 Magnolia Blvd. #116, N. Hollywood, CA, 91607, 818-769-5232
Products: patch bay cleaning tools for 1/4 inch/TRS and TT/Bantam jacks.

PORTABLE SOUND SYSTEMS

Anchor Audio Inc., 913 West 223rd St, Torrance, CA, 90502, 213-533-5984
President: Jim Van Waay
National Sales Manager: Jon Peirson
Products: portable sound systems and accessories, lectures, as well as powered speaker systems for foreground and background applications.

Argos Products Co., 600 S. Sycamore St., Genoa, IL, 60135, 815-784-5118
President: Donald C. MacLaughlin
Sales, V.P.: Ronald Evers
Credit Manager: Rosella Johnson
Chief Engineer: Loren Schrader
Products: indoor /outdoor Sound Columns, packaged sound systems, Portable PA systems, Sound powered lecturns, background & foreground speakers, baffle/speaker combinations, baffles & enclosures.
See full listing under **Loudspeakers**

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346
Ch'mn. of the Board: John C. McLaren
Vice President: Scott Anderson
Nat'l. Sales Mgr.: Jim Lucas
Operations Mgr.: Jennifer Drescher
Products: audio signal processors.
See full listing under **Audio Signal Processors**

Bose Corp, The Mountain, Framingham, MA, 01701, 617-

879-7330

Mgr./Pro Products: David Bell
E. Reg. Sales Mgr.: Tim Dorwart
Nat'l Technical Rep.: Bruce Myers
Mkt'g Dev. Specialist: Mark Mayfield
Products: professional loudspeaker systems for portable and installed applications including sound reinforcement commercial sound, background/foreground music, ciner sound. Modeler™ computer software for sound system design assistance.

See full listing under **Pro Audio Sound Systems & Products**

Cerwin-Vega, 555 E. East St., Simi Valley, CA, 93065, 805-584-9332, TLX:662250
President: Gene Czerwinski
Sales Manager: Rich Mandella
Chief Engineer: Marshall Buck, Ph.D
Products: electronic and acoustic systems for domestic and auto sound systems; MI, sound reinforcement, motion picture, broadcast, recording, and commercial sound products.
See full listing under **Loudspeakers**

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-962-6009
Products: a full line of paging products.
See full listing under **Paging Systems**

Community Light & Sound, Inc., 333 E 5th St., Chestertown, PA, 19013, 215-876-3400
President: Bruce Howze
V. P. of Engineering: John Wiggins
Vice President: Christine Howze
Director of Mkt'g: John Strand
Products: sound reinforcement loudspeakers for background, foreground and paging. Two, three, & four way loudspeakers systems for use in churches, schools, nightclubs, restaurants, and portable live applications. Pattern Control horns, midrange compression loudspeakers and components for engineered sound systems.
See full listing under **Pro Audio Sound Systems & Products**

Eastern Acoustics Works, 59 Fountain St., Framingham, MA, 01701, 617-620-1478
President: Kenneth Berger
V.P. Engineering: Kenton Forsythe
V.P. Marketing: Frank Loyko
Sales Administrator: Daniel McDonald
Other Personnel: Max Berger
Products: precision-crafted professional loudspeaker products including full-range systems, bass and mid-bass horns, drivers, and studio monitor systems.
See full listing under **Loudspeakers**

Eden Electronics, Inc., 1st St., PO Box 338, Montrose, MN, 55363, 612-675-3650

President: David D. Nordschow

Products: pro audio sound systems including constant directivity horns and mid-bass devices; small to large 2-way, 3-way, and 4-way systems for PA and music play-back; touring systems; stage monitors; passive crossovers; custom enclosures.

See full listing under **Pro Audio Sound Systems & Products**

International Music Co. (I. M. C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114

Chairman of the Bd./CEO: Tommy Moore

President: Jerry Freed

V.P. Sales: C.H. Murray

Dir. of Akai EMI: Mike McRoberts

Akai Product Specialist: Kevin Kennedy

Products: Akai: multitrack recorders, digital patch bays, digital samplers, electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones, and effects.

See full listing under **Pro Audio Sound Systems & Products**

JBL Professional, 8500 Balboa Blvd, Northridge, CA, 91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

Market Manager/Sound Contracting: Steve Romeo

Products: high quality loudspeakers and loudspeaker systems of all kinds; automatic microphone mixer; electronic crossover; special loudspeakers for musical instruments; video projector.

See full listing under **Loudspeakers**

Lectrosonics, Inc., P.O. Box 12617, Albuquerque, NM, 87195, 505-831-1010

President: John Arasim

V.P. Engineering: Larry Fisher

Mkt'g. Manager: Bruce Jones

Sales Manager: Jim Madden

Production Manager: Keith Philips

Products: Freedommike® wireless microphone systems; single antenna and diversity receivers in both standard and miniature configurations; a wide variety of body-pack and hand-held transmitters for many applications; Voice Projector® portable sound systems with rechargeable, self-contained power supplies.

See full listing under **Microphones**

MagnaSound (Division of UXL Corp.), 108-02 Otis Ave., Corona, NY, 11368, 718-271-5200

President: Ben Frankenstein

Sales Manager Neil Howard

Chief Engineer: Salverio Guardi

Office Manager: Dorothy Davis

Products: VoiceBeamer (Sound lecturn with optional cassette player in floor and table-top models—15W and 30W power). PortaCaster (Battery-powered PA with half-mile range). Campaigner (car-top PA system). PA Amplifiers, and FM tuner.

McCauley Sound, Inc., 13608 94th Ave. E., Puyallup, WA 98373, 206-848-0363

Pres./Sales Mgr.: Tom McCauley

V.P./Production: Pete McCauley

Products: a complete line of touring and commercial loudspeaker systems. They feature a high-powered series of low-, mid-, and high-frequency loudspeakers and compression drivers, as well as CD horns, passive networks, and enclosure hardware.

See full listing under **Pro Audio Sound Systems & Products**

Panasonic Industrial Company/Ramsa, 6550 Katella Ave, Cypress, CA, 90630, 714-895-7272

National Marketing Mgr.: Steve Wooley

Products: Ramsa, the professional audio division of Panasonic Industrial Company's Audio/Video Systems Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800

Executive V.P.: Paul Mastrangelo

Sales Manager: David Moore

Product Manager: Ken O'Brien

Credit Manager: Marilyn Beckerson

Operations Manager: Anthony Sgueglia

Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.

See full listing under **Audio Amplifiers**

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365

Prod Mgr/Sound Reinf.: Hollis Calvert

Prod Mgr/Digital Product: Ken Valentine

Products: audio application systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.

See full listing under **Pro Audio Sound Systems & Products**

Precision Electronics, Inc., 9101 King St., Franklin Park, IL 60131, 312-678-5350

President: William S. Grommes
Chief Engineer: A.A. Hart
Sales Manager William Stow
General Manager: G. Hussain
Products: PA amplifiers, mixer preamplifiers, power amplifiers, am/fm tuners, tuner amplifiers with paging, graphic equalizers, automatic volume limiter, telephone music-on-hold amplifier, and sound accessories.
See full listing under **Audio Amplifiers**

Shure Brothers, Inc, 222 Hartrey Ave, Evanston, IL, 60202-3696, 312-866-2200

President: James Kogen
V.P. Sales/Mkt'g: Richard Murphy
Marketing Manager: Sandy Schroeder
Sales: Tim Vear
Sr. Product Cdr: Max Ann Buchanan
Products: microphones and accessories, wireless microphone systems, mixers and related circuitry products, automatic microphone systems, compact sound reinforcement systems, teleconferencing systems.
See full listing under **Microphones**

Sieler Design Products, 1308 W. 130th St., P.O. Box 2128, Gardena, CA, 90247, 213-324-9663

President: Patrice Sieler
Chief Engineer: George Sieler
Products: portable, battery operated high power/high clarity public address systems: from 4 Lb. hand held 25 watt systems to 25 watt Systems. AC/DC table top lecterns.
District Offices:
Sunrise Sales, Romeoville, IL, 815-886-2300
Alan Sarfaty & Assoc., Great Neck, NY, 516-466-6770
TorTech Mkt'g, Toronto, CN, 416-536-1441

Sound Craft Systems, Inc., Rt. 3, Box 319, Morrilton, AR, 72110-9532, 501-727-5476

President: Earle Love
Vice President: Hugh McDonnell
Secretary/Treasurer: Katherine Foust
Sales Manager: Hank Shaw
Products: compact, easy-to-use portable lecterns; solid wood lecterns which will complement the most distinctive of interiors; wireless microphone systems that provide freedom of movement; and complete accessories.

Soundcraft USA, PO Box 2200, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411, FAX: 818-893-3639

President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Nat'l. Sales Mgr.: David Kimm
Tech. Applications: Gordon Cochran
Products: audio mixing consoles and multi-track tape machines. Applications include sound reinforcement, live recording, studio recording, remote recording, broadcast

and post production.
See full listing under **Mixers & Mixing Consoles**

Sunn, 1130 Columbia Street, Brea, CA, 92621, 714-990-0909

President: Bill Schultz
Director of Mkt'g: Joe Green
National Sales Mgr.: Don Johnston
Products: sound reinforcement products include: powered and non-powered mixers, mixing consoles, power amplifiers and speaker enclosures. Professional stage lighting products.
See full listing under **Pro Audio Sound Systems & Products**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida
V. P./Treasurer: Tom Kohsaka
V. P.: Bill Hooper
Controller: Cal Weddle
Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.
See full listing under **Pro Audio Sound Systems & Products**

Turbosound, Inc, 611 Broadway, #841, New York, NY, 10012, 212-460-9940

President: Alan Wick
V. P. Sales/Mkt'g: Dan Abelson
V. P. Operations: Hilary Michener
Products: Turbosound loudspeaker enclosures utilize patented principles to provide the installer pre-engineered loudspeaker systems complete with certified rigging hardware designed for ease of install and safety.
See full listing under **Loudspeakers**

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411

President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Applications Engineer: Drew Daniels
Mkt'g. Mgr. Sound Contracting: Steve Romeo
Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.
See full listing under **Audio Signal Processors**

Wissco, 1599 Superior Ave., A-1, Costa Mesa, CA, 92627, 714-645-1281

President: J. Wanlass
Products: wireless microphones and receivers, power megaphones, sound lecterns, mobile sound systems, portable PA systems, mixers, speakers, telephone intercom systems, professional sound systems, amplifiers, power supplies, AC regulators, IR links.
See full listing under **Microphones**

POWER/PROTECTION/ CONDITIONERS

Dynamote Corp., 1200 W. Nickerson, Seattle, WA, 98119,
206-282-1000

Products: inverters dc to ac, 120 volt trucks

Ethereal Concepts, 210 Golden Gate Drive, Dayton, OH,
45459, 513-433-8610

Products: power control box, lighting equipment.

Linear & Digital Systems, Inc., 46 Marco Lane, Centerville,
OH, 45459, 513-439-1758

Products: noise suppression and protection systems.

Lumitrol Corp., 110 Bi-County Blvd., Farmingdale, NY,
11735, 516-752-1411

Products: lighting for audio systems.

Omni Q Inc., 925 Boblett St., Blaine, WA, 98230, 206-384-
1750

Products: sound imaging, multi-media control systems and
computer response systems.

Perma Power Electronics, Inc., 5601 W. Howard Ave.,
Chicago, IL, 60648, 312-647-9414

Polyphaser Corporation, 1425 Industrial Way, Gardnerville,
NY, 89410-1237, 702-782-2511, 800-325-7170

Products: lightening, EMT devices.

Powermark, Inc., 3855 Ruffin Road, San Diego, CA,
92123, 619-565-8363

Products: power conversion equipment.

RTE Deltec Corp., 2727 Kurtz Road, San Diego, CA,
92110, 619-291-4211

Products: uninterrupted power assistance/line condition-
ers.

SL Waber Electric, 300 Harvard Ave., Westville, NJ, 08093,
609-456-5400

President: John A. Ralston

Dir. of Manufacturing: John Instone

Dir. of Engineering: Jeff Wright

Marketing Manager: Gary Oswald

Advertising Manager: Barbara McNally

Products: multiple outlet strips, surge and noise protec-
tors, power relays & uninterruptible power supplies.

Superior Electric Co., 383 Middle Street, Bristol, CT,
06010, 203-582-9561

Topaz Inc., 9150 Topaz Way, San Diego, CA, 92123, 619-
279-0831

Tripp Lite, 500 N. Orleans, Chicago, IL, 60610, 312-329-
1777

Products: lights and power equipment.

Whitenton Industries, Inc., 7320 Ashcroft, Suite 302,
Houston, TX, 77081, 713-772-1404

Products: line conditioners, power protectors and distribu-
tion.

PRO AUDIO SOUND SYSTEMS & PRODUCTS

AB International Electronics Inc., 1830-6 Vernon St.,
Roseville, CA, 95678, 916-783-7800

President: Robert Bird

V. P. Mkt'g: Irwin Laskey

V. P. Engineering: George Anderson

Chief Engineer: Jeff Kuells

Products: precision power amplifiers for the commercial
audio and musical sound industries, models range in pow-
er from 50 watts per channel to 500 watts per channel
stereo.

See full listing under **Audio Amplifiers**

Acoustic, 8052 Lankershim Blvd., N. Hollywood, CA,
91605, 818-765-0866

Adams-Smith, 34 Tower St., Hudson, MA, 01749, 617-
562-3801

President: A. Simon

V.P. Sales: H. Adams

General Manager Adams-Smith U.K. Ltd D. Godsmark
Products: time code, tape synchronizing, sound sweet-
ening, and audio-for-video editing equipment.

District Offices:

Adams-Smith, Great Neck, NY, 516-365-6664

Adams-Smith, Burbank, CA, 818-840-9588

Adams-Smith UK Ltd., Cambridge, England, 44-223-
410104

Aiphone Intercom Systems, 1700 130th Ave. N.E. ,
Bellevue, WA, 98005, 206-455-0510

President: Hiko Shinoda

National Sales Mgr.: Jim Morrison

Products: industrial, business, residential, loudspeaking,
telephone-type, video intercom entry systems, paging
talkback, microprocessor intercom systems, mixer ampli-
fiers, paging speakers, horns, drivers, ceiling speakers,
tuners, and special order products.

See full listing under **Intercom Duplex**

ASHLY

Ashly Audio, Inc., 100 Fernwood Ave., Rochester, NY,
14621, 716-544-5191

President: William Thompson

V.P. Sales/Mkt'g.: Robert French

V.P. Finance/Export Accts.: David Malloy

Products: MOS-FET power amplifiers, graphic equalizers,
noise gates, limiter/compressors, electronic crossovers,
parametric equalizers, notch filters, and OEM products.

District Offices:

George Markunas Industries, Avon MA, 617-588-8043

Triad Marketing, Wayne, NJ, 201-696-8625

Bert Ziskind & Assoc., Rolling Meadows, IL, 312-577-162

A/V Marketing, Carmel, IN, 317-846-1034

Dick Bellew Sales, Dallas, TX, 214-644-7881

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026, 314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: ceiling speaker systems, professional grade loudspeaker assemblies, line transformers. Microphone floor, boom, desk stands for stage and studios. Consoles, racks, enclosure systems for control equipment.

See full listing under **Loudspeakers**

Audio/Digital, Inc., 1000 S. Bertelsen Rd, Suite 4, Eugene, OR, 97402, 503-687-8412, 800-423-1082

President: Gary Hardesty

Sales Mgr.: Virginia Nott

Chief Engr.: Gary Hardesty

Products: specializes in Digital Signal Processing, provides DSP equipment for permanent installation, touring, recording studio, and radio broadcasting applications, including the ADD series of 2 and 3 output digital delays.

See full listing under **Audio Signal Processors**

Audiotech, 410 South Cedar, Lansing, MI, 48912, 517-371-4148

President: Dave MacPherson

Production: Mike Cosgrove

Sales: Dave Arnold

Products: hi-fidelity loudspeakers for sound reinforcement, touring sound rentals/installations.

See full listing under **Loudspeakers**

Audisar, Box 1561, Bellevue, WA, 98009, 206-454-2040
Owner: R. Munger

Products: industrial audio and broadcast equipment, audio transformers, loudspeakers, power amplifiers, mixers, sound projector interface device, test equipment, specials and engineered sound systems.

Barcus Berry Electronics Inc., 5500 Bolsa Ave, Suite 245, Huntington Beach, CA, 92649, 714-897-6766, 800-233-8346

Ch'mn. of the Board: John C. McLaren

V.P.: Scott Anderson

Nat'l. Sales Mgr.: Jim Lucas

Operations Mgr.: Jennifer Drescher

Products: audio signal processors.

See full listing under **Audio Signal Processors**

BEL Electronics, 745 109th St., Arlington, TX, 76011, 817-640-6447

Benchmark Media Systems, Inc., 3817 Brewerton Rd., N. Syracuse, NY, 13212, 315-452-0400

President: Allen H. Burdick

Products: modular audio processing and distribution system for mono, stereo, and mic-level audio. Includes remote gain control, equalization, oscillators, and stereo processors.

Biamp Systems, 14270 NW Science Park, Portland, OR, 97229, 503-641-7287

President: Ralph Lockhart

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V.P. Engineering: Bob Doty
V.P. Finance: Jerry Payette
V.P. Manufacturing: Ralph Tennant
Sales Manager: Ron Camden
Products: American-made, high-quality, audio equipment for the sound contractor that includes; mixers, live and recording, rack-mount or console; powered mixers; microphone mixers; amplifiers; equalizers; and crossovers.
District Offices:
Bob Brennon, Hempstead, NY, 516-565-2323
Bob Edsall, Ashville, NC, 704-252-9313
Susan Stamm, Pittsburg, PA, 412-344-1360
Andy Combs, Pontiac, MI, 313-673-2280
Steve Gleason, Burbank, CA, 818-848-7512

Bose Corp, The Mountain, Framingham, MA, 01701, 617-879-7330
Mgr./Pro Products: David Bell
E. Reg. Sales Mgr.: Tim Dorwart
Nat'l Technical Rep.: Bruce Myers
Mkt'g Dev. Specialist: Mark Mayfield
Products: professional loudspeaker systems for portable and installed applications including sound reinforcement, commercial sound, background/foreground music, cinema sound. Modeler™ computer software for sound system design assistance.
Products: E. Reg Sales Office, Whitehall, PA, 215-266-0971.

Bozak/TAI, Inc, 326 South St, New Britain, CT, 06051-3721, 203-2250555

Carvin Corp., 1155 Industrial Ave., Escondido, CA, 92025, 619-747-1710

Celestion Industries, Inc., Kuniholm Dr., Box 521, Holliston, MA, 01746, 617-429-6706
Exec. V.P. & Gen. Mgr.: Peter Wellikoff
Nat'l. Sales Manager: David Deranian
Mkt'g./Sales Support Admn: Barry Fox
Credit Manager: Kathy Maguire
Products: sound reinforcement loudspeakers with high-fidelity sound called the SR Series; established line of raw-frame drivers for a wide variety of applications.

Cerwin-Vega, 555 E. East St., Simi Valley, CA, 93065, 805-584-9332, TLX:662250
President: Gene Czerwinski
Sales Manager: Rich Mandella
Chief Engineer: Marshall Buck, Ph.D
Products: electronic and acoustic systems for domestic and auto sound systems; MI, sound reinforcement, motion picture, broadcast, recording, and commercial sound products.
See full listing under **Loudspeakers**

Cetec Ivie, 1366 West Center St, Orem, UT, 84057, 801-224-1800
President: Craig Berry
Mkt'g Manager: Glen Meyer
Production Manager: Larry Driskill
Products: a complete line of modular sound reinforcement electronics including mixers, equalizers, amplifiers, etc.
We also have a line of octave & 1/3 octave hand-held real

time analyzers and stand alone automatic microphone mixers.

See full listing under **Audio Signal Processors**

Cetec Raymer, 7315 Fulton Ave., N. Hollywood, CA, 91605, 213-875-0423
President: Hugh T. Wilcox
Products: audio equipment for paging, background music and sound systems, including amplifiers, tuners, receivers test equipment, telephone interconnect devices and accessories. Direct connection telephone trunk and station access paging devices.
See full listing under **Paging Systems**

Clarity, 1111 Industry Ave., Roanoke, VA, 24013, 800-962-6009
Products: a full line of paging products.
See full listing under **Paging Systems**

Clarity, Nelson Lane, Garrison, NY, 10524, 914-424-4071
President: Gregory Kramer
Mkt'g & Sales Mgr.: Colleen Donnelly
Products: the XLV, an effects automation interface that provides full MIDI control of the 224XL, 480L, rmx-16, QRS and REV-1. It also provides 8 channels of MIDI-to-control-voltage conversion for DDL's, VCA's, etc.

Community Light & Sound, Inc., 333 E 5th St., Chester PA, 19013, 215-876-3400
President: Bruce Howze
V. P. of Engineering: John Wiggins
Vice President: Christine Howze
Director of Mkt'g: John Strand
Products: sound reinforcement loudspeakers for background, foreground and paging. Two, three, & four way loudspeakers systems for use in churches, schools, nite-clubs, restaurants, and portable live applications. Pattern Control horns, midrange compression loudspeakers and components for engineered sound systems.
District Offices:

New Resource, Norwell, MA, 617-659-1463
Metrorep Sales, Inc., Freehold, NJ, 201-462-1221
Audio Mkt'g Assoc., Breckville, OH, 216-526-2426
Bencsik Assoc., Ocala, FL, 904-732-9775
Texas Pro Reps, Inc., Ft. Worth, TX, 817-847-0625
Key Marketing, Plymouth, MI, 313-459-6040
Pro Marketing Co. Inc., Indianapolis, IN, 317-846-9591
Steffey Marketing, Northbrook, IL, 312-480-3575
Evans Sales & Marketing, Nashville, TN, 615-297-7997
Mel Foster Technical Sales, Edina, MN, 612-941-9800
R.J. Throckmorton Sales Co. Inc., Ballwin, MO, 314-227-7222
Pearson & Pearson, Denver, CO, 303-722-6996
Gemini Electronics Marketing, Edmonds, WA

COMTEK

Comtek, Inc., 357 W. 2700 St., Salt Lake City, UT, 84115, 801-466-3463
President: Ralph Belgique
Application Engineer: Steve Kartchner
In-House Sales: LeeAnne Richards

Products: wireless microphone systems operating up to 216 MHz and RF assistive listening systems for the hearing impaired for use in auditoriums, churches and theaters, wireless tour guide systems, wireless intercom systems, and wireless cuing systems.

See full listing under **Microphones**

Conquest Sound, Inc., 7319 Duvan Dr., Box 757, Tinley Park, IL, 60477, -, 800-323-7671, in IL 800-344-2667
President: Robert Jares, Jr.

Vice President: Larry Spalla

Sales Manager: Al Novak

Plant Manager: Mike Sanfilippo

Plant Manager: Dennis Wood

Products: audio wiring systems from mic cables to splitting systems to multi-channel systems; supplier of Switchcraft connectors and parts to audio industry; stock of over 1,000,000 Ft. assorted wire and 200,000 Switchcraft parts; separate division for alarm, co-ax security wire.

See full listing under **Wire/Cable Systems**

Dean Markley Electronics Inc., 3350 Scott Blvd., Suite 45, Santa Clara, CA, 95054, 408-988-2456, 800-538-8330

President: Dean Markley

Executive V. P.: Bari Wilson

Nat'l Sales Manager: Tom Dreibelbis

Products: professional audio sound systems and support, powered and non-powered mixers, powered and unpowered enclosures, power amps, microphones, cables and accessories.

Design Direct Sound, 6850 35th N.E., Suite 1, Seattle, WA, 98115, 206-527-4371

President: Bob Rice

Vice President: Pat Peterson

Vice President: Marc Hall

Marketing: Mark Dodge

Products: Walker/DDS 80 Series mixing desk is an 8 buss board with a 10 X 8 matrix output, resulting in 18 balanced outputs. The 80 Series offers many of the benefits of full blown 8 buss boards.

District Offices:

Warren & Assoc., Santa Clara, CA, 408-988-7762

Hustling Enterprises, Redington, FL, 813-393-8982

New Horizons, Bannockburn, IL, 312-234-5911

Heaton Communications, New S. Wales, Australia, 02-428-2727

Dolby Laboratories, Inc., 100 Potero Ave., San Francisco, CA, 94103, 415-558-0200

Chairman: Ray Dolby

President: Bill Jasper

Vice President: Ioan Allen

V.P. Sales & Mkt'g.: Ed Schummer

US Sales Mgr.: George Douglas

Products: noise reduction and spectral recording equipment, signal processing systems all for the recording, broadcast, video, and cinema industries.

Dorrough Electronics, 5221 Collier Pl., Woodland Hills, CA, 91364, 818-999-1132

President: Mike Dorrough

Products: Bourrough Loudness Meter simultaneously displays peak and average on one LED array. The ballistics

were designed to show equal perceived power between peak and average regardless of the complexity of audio waveforms.

Dyna-Might Sound & Lighting Inc., 3119-A S. Scenic, Springfield, MO, 65807, 417-883-4549

Eastern Acoustics Works, 59 Fountain St., Framingham, MA, 01701, 617-620-1478

President: Kenneth Berger

V.P. Engineering: Kenton Forsythe

V.P. Marketing: Frank Loyko

Sales Administrator: Daniel McDonald

Other Personnel: Max Berger

Products: precision-crafted professional loudspeaker products including full-range systems, bass and mid-bass horns, drivers, and studio monitor systems.

See full listing under **Loudspeakers**

Edcor, 1948 East Pomona, Santa Ana, CA, 92705, 714-863-1529, 800-854-0259

Sales Manager: Deanna Weston

Chief Engineer: Luis Bonand

Production Manager: Tina Lopez

Treasurer: Phyllis Weston

Products: complete line of electronic commercial sound products including power & mixer amplifiers, E-Q amps, microphone/line mixers, automatic & gated mixers, wireless microphones systems, translation systems, transformers and private label products.

Eden Electronics, Inc., 1st St., PO Box 338, Montrose, MN, 55363, 612-675-3650

President: David D. Nordschow

Products: pro audio sound systems including constant directivity horns and mid-bass devices; small to large 2-way, 3-way, and 4-way systems for PA and music play-back; touring systems; stage monitors; passive crossovers; custom enclosures.

District Offices:

William M. Linz Assoc., Deerfield, IL, 312-945-9600

J.M.S. Marketing, Austin, TX, 512-266-1443

Pro Music Sales, Keene, NH, 603-352-4831

Greg Dzubay & Assoc., Peoria, AZ, 602-979-2358

AV Marketing, Carmel, IN, 317-846-1034

Music America, Columbia, MD, 301-995-1578

Electro-Voice, Inc., 600 Cecil St, Buchanan, MI, 49107, 616-695-6831

President: Robert D. Pabst

V.P. Sales and Marketing: Paul McGuire

Director of Marketing: Jim Long

Chief Engineer: Earl Harris

Products: broadcast, recording, communications and PA microphones, public address and component high-fidelity loudspeakers and systems, high-performance compression drivers, horns, low-frequency systems, mixers, mixing consoles, signal processors and crossover networks.

District Offices:

George M. Conneen Co., Inc., Springfield, PA, 215-544-5884

Metropolis Audio Marketing, Inc., Edison, NJ, 201-225-0085

R.J. Marketing Ltd., Rockville, MD 301-251-0330

The Smith Company, Hartford CT, 203-523-0512
Ron Tunks Sales, Inc., Tamarac, FL, 305-722-2803
Wilson Audio Sales, Nashville, TN, 615-646-4477
Audio Resources, Westmont, IL, 312-655-1180
B.C. Electronic Sales, Inc., Mission, KS, 913-262-1720
Jones Audio Sales, Plano, TX, 214-867-0202
C.L. Pugh & Assoc., Inc., Columbus, OH, 614-486-9678
Riley & Petchell Sales, Inc., Detroit, MI, 313-937-3000
Loppnow & Assoc., Redmond, WA, 206-883-3205
Radon & Assoc., Sacramento, CA, 916-923-2524
Silver Peak Marketing Ltd., Wheat Ridge, CO,
303-467-9042
Western Audio Sales, Glendale, CA, 818-246-3806

Eltrex International, 2 Columbia Dr., Amherst, NH,
03031, 603-886-3500

Products: digital voice recorder, auto answer and
playback.

See full listing under **Message Repeaters/Storecasters**

Environmental Sound, 31220 La Baya Dr.,
Bldg. 110, Westlake Village, CA, 91362, 818-706-0228,
TLX: 299353 POST UR, FAX 818-889-5605

President: Pascal Delbuck

Mkt'g. Director: Ron Glathoffer

Advertising Mgr.: Dean McEntyre

Chief Engineer: Pascal Delbuck

Plant Manager: Bill Ward

Products: PRO DROP CEILING MONITOR I; 8" 2-way
isosceles cabinet for multiple mounting applications/
theatre reinforcement, churches, nightclubs; ES-Series
includes ES-502, ES-602, ES-802, ES-1002, ES-2802
our Flush Mount Loudspeakers have multiple mounting
offering an exclusive variety of grille and matching
baffle colors for architectural and interior designers that
require high power audiophile custom home
loudspeakers.

District Offices:

DB Marketing, East Rockway, NY, 516-596-1244

Factory Rep., Westlake Village, CA, 818-706-0228

Fanon Courier, 14281 Chambers Road, Tustin, CA,
92680 714-6690-9890, 800-345-1354

President: Frank Blaha

Director Sales/Mkt'g.: Murray Trotiner

Director of Engineering: Miguel Santana

Product: PA amplifiers and systems, paging/talkback
speakers, intercom systems, megaphones, FM scanning
monitors, and CB transceivers.

Fender Musical Instruments Corp. Fender Musical In-
struments Corp., 1130 Columbia Street, Brea, CA,
92621, 714-990-0909

FGS Intergalactic Cartel and Holding Company (FGS),
PO Box 619, Topanga, CA, 90290-0619, 213-455-2802

President: Boris D. Gato

National Sales Manager: Natasha D. Gato

Senior Scientist: Dennis Fink

Products: FGS Precision Engineered Sound™ pro-

audio sound, utilizing HM™ (higher mathematical)
techniques.

Fostex Corp. of America, 15431 Blackburn Ave., Nor-
walk, CA, 90650 213-921-1112

President: Y. Abe

V.P. General Manager: Fred Huang

V.P. Sales/Marketing: Mark Cohen

National Sales Manager: Mike Flynn

Products: a full-line for the Pro contract or including the
MP Series multi-purpose powered mixers, SP & SPA11
portable speakers for many applications, raw frame
speaker components from 18" to supertweeter, excellen
monitors, headphones, and microphones.

Frazier, A Division of Sound-Craft Systems, Inc., Petit
Jean Mountain Rt 3, Box 319, Morrilton, AR, 72110,
501-727-5476, 800-643-8747

Marketing: Earle Love

Sales Manager: Hank Shaw

Secretary/Treasurer: Katherine Foust

V.P. Sales & Marketing: James Truelsen

Sr. Engineer: Jay Mitchell

Products: sound reinforcement loudspeaker systems
featuring coincident-aligned transducers which offer fre-
quency response and intelligibility and utility in a variety
of light-weight compact designs. Our mounting system
minimizes installation time. See full listing under
Loudspeakers

Galaxy Audio, 625 East Pawnee, Wichita, KS, 67211,
316-263-2852

Manager: R.D. Moneyhun

Products: Hot Spot Monitors-Hot Spot P.A. monitor/
portable P.A.-Pro Spot Speakers/stage monitors-mixers,
8, 12 and 16 channels.

GLI/Integrated Sound Systems, 1227 Walt Whitman
Road, Melville, NY, 11747, 516-351-2100

Gold Line, P.O. Box 115, W. Redding, CT, 06896,
203-938-2588

President: Martin E. Miller

V. P. Marketing: Marj Miller

Products: 10-band and 1/3-octave real-time analyzers,
Loft Professional crossovers and quad-gate limiters, and
Loftech audio test sets.

District Offices:

Pro Musica Sales, Keene, VT, 603-352-4831

Bill Ray Assoc., Atlanta, GA, 404-351-6367

RPM Sales, Carrollton, TX, 214-446-3010

Richard Lewis Sales, Glenside, PA, 215-886-1555

Heil Ltd., 2 Heil Drive, Marissa, IL, 62257, 618-295-3000

Henry Engineering Co., 503 Key Vista Dr., Sierra
Madre, CA, 91024, 818-355-3656

Owner: Hank Landsberg

Products: the matchbox is the ideal way to interface un-
balanced semi-pro or "consumer" audio equipment

with balanced LO-Z professional gear. Four independent active amplifier circuits provide level and impedance conversion to balanced 600 Ohm outputs.

Hill Audio, Inc., 5002#B.N. Royal Atlanta Dr., Tucker, GA, 30084 404-934-1851

President: David Ash

Sales manager: Bob Allen

Chief Engineer: Rick Rogers

Financial Administrator: Virginia Ash

Products: power amplifiers from 200 to 3,000 watts and mixing consoles featuring 16-channel rack-mount through 48-channel modular. The modular consoles have the new "Sidetraker" EQ as standard equipment.

District Offices:

Innovative Sales and Marketing, Santa Ana, CA, 714-549-7770

Ouzunoff and Assoc., Yorktown Heights, NY, 914-245-6452

Summit Sales, Houston, TX, 713-890-5333

Industrial Research Products, 321 Bond St., Elk Grove Village, IL, 60007, 312-439-3600

General Manager: Mahlon Burkhard

Marketing Manager: Roger Carroll

Products: transversal equalizers, automatic microphone mixers, digital delay lines, power amplifiers, level-matic limiter.

Industry West Electronics, 270 N. Geneva, Rd., Orem, UT, 84057, 801-226-1000

Products: professional sound reinforcement equipment including amplifiers, portable PA systems and multi-input adaptor boxes.

District Offices:

Lichtenauer Assoc., Antioch, CA, 415-757-1200

West Tech Marketing, Culver City, CA, 213-870-9286

George M. Conneen Co., Inc., Springfield, PA, 215-544-5884

Dick Bellew Sales Co., Dallas, TX, 214-644-7881

C.L. Pugh & Assoc., Inc., Columbus, OH, 614-486-9678

Ineptronics, 3730 Lankenau Rd., Philadelphia, PA, 19131, 215-473-6176

President: So Sumi

Vice President: Hiram Levity

Products: model TA4761 Electroacoustical Superflurator™, energy-efficient data-in-put/manipulation/data-output system, available in your choice of decorator colors.

Innovative Electronic Designs, Inc., 9701 Taylorsville Rd., Louisville, KY, 40299, 502-267-7436

President: Hardis G. Martin

V.P. Engineering: Robert Ponto

Treasurer: Ray Allen

Dr. Mkt'g. & Sales: Tom Roseberry

Products: models 500 & 500 AC microcomputer controlled audio systems, controlling mixing, routing, and level adjustment. 4000 automatic mixer, 5000 audio processing system. 70-volt and low impedance 8 ohm ver-

sion 6270 power amplifier.

District Offices:

Derek Allen Assoc., Toluca Lake, CA, 818-840-8327

Bensik Assoc., Ocala, FL, 904-732-9775

Plus 4 Marketing, Pleasant, CA, 415-937-0650

Yore Company, White Bear Lake, MN, 612-770-9760

International Music Co (I.M.C.), PO Box 2344, Ft. Worth, TX, 76113, 817-336-5114

Chairman of the Bd./CEO: Tommy Moore

President: Jerry Freed

V.P. Sales: C.H. Murray

Dir. of Akai EMI: Mike McRoberts

Akai Product Specialist: Kevin Kennedy

Products: Akai: multitrack recorders, digital patch bays, digital samplers, electronic wind instruments, and synthesizers. Ross: multitrack recorders, PA systems, guitar amps, microphones and effects.

Bob Connelly, Woodland Hills, CA, 818-999-4854

Frank White, Severna Park, MD, 301-647-0995

Rob Payne, Knoxville, TN, 615-966-3786

Ray Baragary, Lakewood, CA, 213-633-5820

Larry Wilson, Englewood, CO, 303-779-8686

Neil Buckley, San Jose, CA, 408-978-5649

Harry Starbird, Portland, ME, 207-774-8448

Monte Lamb, Hinsdale, IL, 312-323-0530

John Chez, Ringos, NY, 201-788-5151

Cliff Uttley, Lenexa, KS, 913-888-7940

Glen Hadley, Germantown, TN, 901-757-2524

Jack Charles, Portland, OR, 503-284-0216

Jerry Sehi, Ft. Lauderdale, FL 305-525-0872

Intersonics, Inc., 3453 Commercial Ave., Northbrook, IL, 60062, 312-272-1772

President: Dr. Charles Rey

Acoustical Engineering: Thomas Danley

Sales Manager: Tom Melzer

Products: Servodrive Subwoofers(SDL), featuring the new line of SDL-series subwoofers. These are run by a hi-tech servomotor and a rotary-to-linear converter, no coice-coils. An active cooling system eliminates output loss caused by heat—an industry first.

See full listing under **Loudspeakers**

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

JBL Professional, 8500 Balboa Blvd, Northridge, CA, 91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

Market Manager/Sound Contracting: Steve Romeo

Products: loudspeakers and loudspeaker systems of all kinds; automatic microphone mixer; electronic crossover;

special loudspeakers for musical instruments; video projector.

See full listing under **Loudspeakers**

Korg U.S.A., Inc., 89 Frost St., Westbury, NY, 11590, 516-333-9100

President: Don England

Exec. V.P.: Michael Kovins

V.P. Sales: Art Miller

Products: synthesizers, signal processing equipment, drum computers, electronic tuners, and Marshall amplification.

District Offices:

Korg U.S.A., Inc., Canoga Park, CA, 818-888-2022

Len Finkler Company, 80 Alexdon Road, Downsview, Ontario, M3J2B4, 416-630-9103

Products: amplifiers, speakers for ceiling, & wall bafflers.

Lenco, Inc., PO Box 348, Jackson, MO, 63755, 314-243-3141, 800-325-8494

Products: audio video terminal and enclosures.

McCauley Sound, Inc., 13608 94th Ave. E., Puyallup, WA, 98373, 206-848-0363

Pres./Sales Mgr.: Tom McCauley

V.P./Production: Pete McCauley

Products: a complete line of touring and commercial loudspeaker systems. They feature a high-powered series of low-, mid-, and high-frequency loudspeakers and compression drivers, as well as CD horns, passive networks, and enclosure hardware.

District Offices:

Taub Sales, Silver Springs, MD, 301-622-9100

Ed Proctor, Ft. Worth, TX, 817-535-2771

Ward Marketing, Chicago, IL, 312-409-3635

Micro Audio, Inc., 4438 S.W. Hewett, Portland, OR, 97221, 503-292-8896, 800-445-1248

President: Eugene B. Rimkeit

Dir. of Engineering: Richard Schomburg

V.P. Manufacturing: David Elsbernd

Sales Mgr.: M.C. Garrison

Products: computer-controlled 1/3 octave equalizers, programmers include the μ A2800 EQ POD Programmer/Automatic EQ/RTA, a hand-held programmer, and the software/hardware to turn the IBM PC® into a programmer.

See full listing under **Audio Signal Processors**

Nakamichi America, Corp., 19701 South Vermont Ave., Torrance, CA, 90502, 213-538-8150

President: Yas Yamazaki

Exec. V.P. & G.M.: Dean A. Miller

V.P. Sales: Jett Logan

V.P. Mkt'g.: Bill Rosenzweig

V.P. Operations: Ray Privette

Products: MR-1 discrete head professional cassette deck, MR-2 2-head professional cassette deck, SP-7 stereo headphones, RM-5 remote control for MR-1 and MR-2, DM-10 head demagnetizer.

District Offices:

Professional Audio Assoc., Burlington, MA, 617-229-6050

Rancilio Assoc., St. Louis, MO, 314-631-3326

Applied Audio, Asheville, NC, 704-252-9313

Tenicki & Assoc., Houston, TX 713-528-2005

Western Audio Sales, Glendale, CA, 818-246-3806

Audio Assoc. Corp., Verona, NJ, 201-239-3727

Audio Resources, Inc., Westmont, IL, 312-655-1180

Bencsik Assoc., Inc., Ocala, FL, 904-732-9775

CM Sales, Farmington, Hills, MI, 313-553-8070

JB Parent Co., Worthington, OH, 614-764-0064

Keiser, Torbett & Assoc., Loveland, CO, 303-532-3313

LP Marketing, Oakland, CA, 415-532-5600

Northshore Marketing, Seattle, WA, 206-284-9699

Prorrep Hawaii, Honolulu, HI, 808-847-4038

Signal Marketing, Valley Forge, PA, 215-783-6666

Niles Audio Corporation, P. O. Box 160818, Miami, FL, 33116, 305-238-4373

Oxmoor Corporation, 237 Oxmoor Circle, Birmingham, AL, 35209, 205-942-6779

President: Lynn A. McCroskey

Production Manager: Steve Holt

National Sales Mgr.: Richard Mitchell

Products: DEQ-29 Programmable 1/3 Octave Equalizer with 100 non-volatile memory locations; DCA-2 Digital Control Attenuator and RC-16 remote control unit; 4x4 Buffer Amplifier with independent mixing busses, any of the four inputs can be assigned to any of the four outputs. See full listing under **Audio Signal Processors**

Pacific Recorders & Engineering Corp., 2070 Las Palmas Dr., Carlsbad, CA, 92009, 619-438-3911

President: Jack K. Williams

General Sales Mgr.: John F. Kenyon

Reg. Sales Mgr.: Sandy Berenics

Reg. Sales Mgr.: Michael Uhl

Products: a line of audio mixing consoles and broadcast cartridge machines, in addition to designing and building turnkey radio studios.

Panasonic Industrial Company/Ramsa, 6550 Katella Ave., Cypress, CA, 90630, 714-895-7272

National Marketing Mgr.: Steve Wooley

Products: Ramsa, the professional audio division of Panasonic Industrial Company's Audio/Video Systems Group, markets a comprehensive line of mixing and production consoles, power amplifiers, microphones and speaker systems.

Peavey Electronics Corp., PO Box 2898, Meridian, MS, 39301, 601-483-5365

Prod Mgr/Sound Reinf.: Hollis Calvert

Prod Mgr/Digital Product: Ken Valentine

Products: audio amplification systems; mixing consoles; portable PA systems; dynamic, condenser, and wireless microphones; signal processing gear; loudspeaker systems from small portable enclosures to large venue high-level, multi-way systems including motion-picture theater systems.

Portasound Inc., Route 3, Box 319, Morrilton, AR, 72110, 501-727-5543

Precision Electronics, Inc., 9101 King St., Franklin Park, IL 60131, 312-678-5350

President: William S. Grommes

Chief Engineer: A.A. Hart
Sales Manager: William Stow
General Manager: G. Hussain
Products: PA amplifiers, mixer preamplifiers, power amplifiers, am/fm tuners, tuner amplifiers with paging, graphic equalizers, automatic volume limiter, telephone music-on-hold amplifier, and sound accessories.
See full listing under **Audio Amplifiers**

Protech Audio Corp., Flowerfield, Bldg. #1, St. James, NY, 11780, 516-584-5855
Sales Mgr.: Bill Murphy
Sales Engineering: Joe Giambone
Products: automatic level controls, voltage controlled amplifiers, distribution amplifiers, mixers, tone supervisor systems, microphone and line preamplifiers, compressor/limiters, switching cards, ramp controlled preamplifiers, engineered and modular sound systems.
District Offices:
Peregrine Rep's, Houston, TX, 713-772-6765

Randall Electronics, Inc., 1132 Duryea, Irvine, CA, 92714, 714-261-6304
Dir. of Operations: Chuck Weidener
Dir. of Engineering: Gary Sunda
National Sales Mgr.: Bill Acton
Products: top line musical instrument amplifiers and sound reinforcement equipment.
District Offices:
Bill McDaniel, Indianapolis, IN, 317-823-4206
Dan Castro, Irvine, CA, 714-261-6304
Jody Carver, Somers, NY, 914-248-5806
Bob Seidman, Ft. Lauderdale, FL, 305-581-5666
Tim Lawson, Baton Rouge, LA, 504-291-0371

Rane Corp., 6510 216th S.W., Mountlake Terrace, WA, 98043, 206-774-7309
V.P. Marketing: Larry Winter
Dir. Tech. Dev.: Terry Pennington
Products: graphic and parametric equalizers, real-time analyzers, headphone amps, active crossovers, program mixers, splitters, compressor/limiters.
See full listing under **Audio Signal Processors**

Rauland-Borg Corp., 3535 W. Addison St., Chicago, IL, 60618, 312-267-1300
President: William Krucks
Sr. V. P.: Kenneth T. James
National Sales Manager: Rick Blunt
Chief Engineer: Lawrence Gleason
Products: amplifiers, preamplifiers, mixers, equalizers, intercoms, telephone systems, school communications systems, health care communications systems, professional sound systems, paging systems, AM-FM tuners, loud-speaker systems.
District Offices:
Harry B. Hahn, Olathe, KN, 913-829-9427
William C. Zophy, Ft. Myers, FL, 813-433-4766
Harold DeVaney, Dickinson, TX, 713-337-1040
Hank Plaisier, Midway City, CA, 714-898-2499
Vince Ward, Redmond, WA, 206-643-1074
John Hoover, Cherry Hill, NJ, 609-667-1297
William Lewis, Louisville, KY, 502-491-4275
Ray Bailey, Granville, IL, 815-339-6789

Dennis C. Hansen, Piscataway, NJ, 201-463-3827
Jim Welch, Scarborough, ONT., CD, 416-438-4756
Rauland-Borg Inc., Mississauga, ONT., CD, 416-821-2222

Renkus-Heinz, Inc., 17191 Armstrong Ave., Irvine, CA, 92714, 714-250-0166, FAX: 516-767-9335
President: Harro K. Heinz
Dir. of Mkt'g.: G.R. "Russ" Farrell
Nat'l. Sales Mgr.: Greg McLagan
Products: compact processor-controlled sound reinforcement systems providing studio monitor sound quality at high SPL. Performance-ready systems including power racks & cabling are factory assembled and tested, and have multiple speaker protection features.

Roland Corp. US, 7200 Dominion Circle, Los Angeles, CA 90040, 213-685-5141
President: Tom Beckman
Dir. Of Communications: Nancy Kewin
Communications: Barbi Clark
Products: electronic musical instruments including samplers, synthesizers, sequencers, line mixers, signal processing devices, drum machines and other percussion products, effect pedals, contemporary keyboard products, music software, and computer peripherals including plotters and high-resolution graphics monitors.

RTS Systems, 1100 West Chestnut St, Burbank, CA, 91506, 818-840-7119
President: Bob Ringer
V. P. Mkt'g: Douglas Leighton
Sales Manager: Shelley Harrison
Sales Engineer: Dave Richardson
Chief Engineer: Stan Hubler
Products: Professional Intercommunications Systems - conference-line and dedicated-line, IFB systems. Professional Audio Products - amplifiers, preamps, 10-watt monitor amp and buffer amp.
See full listing under **Intercom Duplex**

Ruslang Corp., 247 Ash St., Bridgeport, CT, 06605

Russco Electronics Mfg. Inc., 5690 East Shields Avenue, Fresno, CA, 93727, 209-291-5593

Sescom, Inc., 2100 Ward Dr., Henderson, NV, 89015, 702-565-3400, 800-634-3457
President: Franklin J. Miller
Products: a line of over 300 Audio devices for all professional and semi-professional needs & all the devices to make systems work.

Sony Professional Audio, 1600 Queen Anne Road, Teaneck, NJ, 07666, 201-833-5200
President: William G. Connolly
Vice President: Jerry Smith
Products: analog and digital audio recorders, compact disc mastering systems, mixing consoles, microphones(wired and wireless), monitoring equipment and public address systems.
District Offices:
Gary Rosen, Paramus, NJ, 201-368-5185
Graeme Goodall, Nashville, TN, 615-883-8140
Garreth Nelson, Chicago, IL, 312-773-6001
Ken Hyer, Burbank, CA, 818-841-8711

Sound Control Technologies, Inc., 114A Washington Street, Norwalk, CT, 06854, 203-854-5701
President: Adolph Neaderland
Sales/Mkt'g: David Neaderland
Products: full duplex patented VOICELIFT™ voice reinforcement and TELEPLEX™ teleconferencing systems for boardrooms, conference and training rooms and teleconferencing areas. Proprietary implant microphones for both plenum and non-plenum installations.
See full listing under **Teleconferencing Systems**

Soundcraft USA, PO Box 2200, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411, FAX: 818-893-3639
President: Ron Means
V.P. Sales: Ken Lopez
V.P. Marketing: Mark Gander
Nat'l. Sales Mgr.: David Kimm
Tech. Applications: Gordon Cochran
Products: audio mixing consoles and multi-track tape machines. Applications include sound reinforcement, live recording, studio recording, remote recording, broadcast and post production.
See full listing under **Mixers & Mixing Consoles**

Soundtech, 230 Lexington Dr., Buffalo Grove, IL, 60089, 312-541-3520

Spectra Sonics, 3750 Airport Rd., Ogden, UT, 84405, 801-392-7531
President/Owner: William G. Dilley
Engineer/Sales: Gregory D. Dilley
Products: amplifiers, mixers, equalizers, compressor/limiters, power supplies, speaker systems, and consoles. We specialize in sound reinforcement equipment.
District Offices:
William Watkins, Merrick, NY, 516-546-5374

St. Louis Music, 1400 Ferguson Avenue, St. Louis, MO, 63133, 314-727-4512
Sales Training Dir.: Tony Moscal
Product Manager: Gary Byers
Dir. of Operations: John Karpowicz
President: Gene Kornblum
Products: musical instrument amplifiers, sound reinforcement equipment, mixing consoles, loudspeakers, power amplifiers.
District Offices:
St. Louis Music, St. Louis, MO, 314-727-4512

Studer Revox America, Inc., 1425 Elm Hill Pike, Nashville, TN, 37210, 615-254-5651
V. P./Gen. Mgr.: Thomas E. Mintner
Dir. of Prof. Products: David C. Bowman
Products: audio recorders - super low speed loggers and playback only machines to 2-inch multichannel; professional CD players & cassette recorders; computer controlled automation interface; mixing consoles, 19-inch & portable units to complete studio systems; amplifiers & loudspeakers.
District Offices:
New York, NY, 212-255-4462
Dallas, TX, 214-943-2239
Los Angeles, CA, 818-780-4234
San Francisco, CA, 415-930-9866

Pro Audio LTD, Chicago, IL, 312-526-1660

Sunn, 1130 Columbia Street, Brea, CA, 92621, 714-990-0909
President: Bill Schultz
Director of Mkt'g: Joe Green
National Sales Mgr.: Don Johnston
Products: sound reinforcement products include: powered and non-powered mixers, mixing consoles, power amplifiers and speaker enclosures. Professional stage lighting products.

Swintek Enterprises, Inc., 587 Division St., Campbell, CA, 95008, 408-378-8091
President: William P. Swintek
V.P.: Les Underwood
Products: RF full-duplex intercoms, switching diversity receivers for sound reinforcement, mini receivers for video cameras, lavalier and hand-held FM transmitters, antenna distribution amplifiers to 470 MHz.
See full listing under **Microphones**

Switchcraft Inc., 5555 N. Elston Ave., Chicago, IL, 60630, 312-792-2700
Marketing Manager: Terry Leen
Mkt'g Prod. Mgr./Audio: William Kysiak
Mkt'g Prod. Mgr./Telecomm.: Thomas DeFotis
Products: a broad line of electronic and electromechanical components for the telecommunications, data communications, sound, computer, medical, military, appliance, transportation and instrumentation markets.

Symetrix, Inc., 4211 24th Ave. West, Seattle, WA, 98199, 206-282-2555, 800-288-8855
President: Dane Butcher
Marketing Director: Doug Schauer
Mkt'g/Sales Admin: Lavina Speer
Products: signal processing equipment includes compressors, limiters, MIC input processor, expanders, gates, near-field monitoring power amp, and the 571 SPL computer microprocessor driven ambient sensing automatic level controller.

Technics Professional, One Panasonic Way, Secaucus, NJ, 07094, 201-348-7000
Products: full line of professional reel-to-reel tape recorders, cassette decks, tuners, receivers, and CD players.

Telex Communications, Inc., Pro Audio Dept., 9600 Aldrich Ave. S., Minneapolis, MN, 55420, 612-887-5550
President: John Howe
Sales Manager/Microphones: Gary Fisher
Sales Manager/Intercom: Claude Kleiman
Director of Marketing: Donald Merein
Products: dual antenna (diversity) wireless microphone systems, single antenna wireless microphone systems, wired microphones, and intercom systems.
District Offices:
Wes-Tech Marketing, Culver City, CA, 213-870-9286
Bensik Assoc., Ocala, FL, 904-732-9775
Monfort Electronic Marketing, Indianapolis, IN, 317-872-8877
Mountain Representatives, Denver, CO, 303-623-0972
Murphy & Cota, Inc., Atlanta, GA, 404-875-2525

Northland Assoc., Moorhead, MN, 218-233-4616
Pusecker Sales, Upper Montclair, NJ, 201-744-1834
Rancilio Assoc., Inc., St. Louis, MO, 314-631-3326
SAGA, Oswego, NY, 315-343-5739
Signal Marketing, Inc., Valley Forge, PA, 215-783-6666
J.Y. Shoonmaker Co., Dallas, TX, 214-349-1650
Weller Electronic Sales, Columbus, OH, 614-885-7819
Ziskind Assoc., Rolling Meadows, IL, 312-577-1624
Burcaw Company & Assoc., Warren, MI, 313-573-4605
S&F Northwest, Seattle, WA, 206-525-5203
Lichtenauer & Assoc., Antioch, CA, 415-757-1200

Times One Technology, 22937 Arlington Ave., Torrance, CA, 90501, 213-325-5200, 714-554-0903

General Manager: Leo Young

CEO, Dir. of Engineering: Brahm Segal

Applications Engineer: Chris Calnan

Sales: Tim Edwards

Products: a unique patented design concept reduces phase delay in the signal at low and high level.

Discmastering, and mixing studios have verified significant improvement in signal clarity. 100 watts @ 8Ω to 500 watts @ 8Ω, and 200 watts @ 4Ω to 960 watts @ 4Ω, 4-year warranty; depots in Europe, USA, Brazil, and Canada.

See full listing under **Audio Amplifiers**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

V. P.: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

Turbosound, Inc, 611 Broadway, #841, New York, NY, 10012, 212-460-9940

President: Alan Wick

V. P. Sales/Mkt'g: Dan Abelson

V. P. Operations: Hilary Michener

Products: Turbosound loudspeaker enclosures utilize patented principles to provide the installer pre-engineered loudspeaker systems complete with certified rigging hardware designed for ease of installation and safety.

See full listing under **Loudspeakers**

UREI, 8500 Balboa Blvd., Northridge, CA, 91329, 818-893-8411

President: Ron Means

V.P. Sales: Ken Lopez

V.P. Marketing: Mark Gander

Applications Engineer: Drew Daniels

Mkt'g. Mgr. Sound Contracting: Steve Romeo

Products: power amplifiers, limiters, compressors, equalizers, filters, Time Aligned™ speakers, direct boxes, electronic crossover, digital metronome, transcription preamplifier, disco mixers, broadcast consoles.

See full listing under **Audio Signal Processors**

Voltage Variable Systems Div., 251 Windward Passage, Clearwater, FL, 33515

Wissco, 1599 Superior Ave., A-1, Costa Mesa, CA, 92627, 714-645-1281

President: J. Wanlass

Products: wireless microphones and receivers, power megaphones, sound lecterns, mobile sound systems, portable PA systems, mixers, speakers, telephone intercom systems, professional sound systems, amplifiers, power supplies, AC regulators, IR links.

See full listing under **Microphones**

Yamaha International Corp., Audio Products Division, 6600 Orangethorpe Ave., Buena Park, CA, 90620, 714-522-9011

General Manager: John Gatts

Nat'l. Sales Manager: Bob Shomaker

Adv. Manager: Robert T. Davis

Products: full line of audio mixing consoles, power amplifiers, speaker systems, digital signal processing equipment, and microphones.

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REMOTE CONTROLS

AMX, 12506 Forestgate Dr., Dallas, TX, 75243, 214-644-3048

President: Scott Miller

V.P. Sales/Mktg.: Bruce Christianson

Products: remote control systems for media & environmental equipment. SX Series features: programmable controls, wireless (RF), software (3-6 wires) or custom control panels. SX16+ & DCU for infrared & serial data control unit.

District Offices:

Milanese Assoc., Phila., PA, 215-763-2138

Advanced Communications, Lag. Nig., CA, 714-582-5167

Meyer Marketing, Deerfield Beach, FL, 305-481-9250

Evans Sales & Marketing, Nashville, TN, 615-297-7997

Audio Visual Marketing, Ft. Worth, TX, 817-246-7166

Crestron Electronics, Inc., 101 Broadway, Cresskill, NJ, 07626, 201-894-0660

Sales Manager: George Herbert

Dir. of Dealer Sales: Patricia Large

Products: off-the-shelf and custom designed wired and wireless a/v control systems with a variety of interface modules; dissolve controls; audio-video-control switchers; architectural dimming systems; random access projectors. See full listing under **A-Visual Equipment/Systems**

FSR, Inc., 220 Little Falls Rd, Cedar Grove, NJ, 07009, 201-239-0988

President: William G. Fitzsimmons

Vice President: Janice Sandri

Engineering Mgr.: Joseph Fischer

Production Mgr.: John Macaluso

Service Dept.: Robert Allen

Products: boardroom control systems (digital, IR and hard-wired); hotel audio combining systems; remote control modules for audio and video applications; custom engineering and metal products.

District Offices:

Design Factors, LaHebra Heights, CA, 213-697-7576

Brian Trankle, Belmont, CA, 415-595-4004

Ziskind Assoc., Chicago, IL, 312-577-1624

Richard Pass Assoc., Langhorne, PA, 215-757-6100

Henry Phillips, Atlanta, GA, 404-992-3070

Avwest, Inc., Fountain Hills, AZ, 602-946-1811

Burcaw Co., Warren, MI, 313-573-4605

Metrorep, Freehold, NJ, 201-462-1221

Meyer Marketing, Miami, FL, 305-872-8877

Monfort Electronics, Indianapolis, IN, 317-872-8877

Pacnor Marketing, Seattle, WA, 206-771-6010

Peregrine Southwest, Houston, TX, 713-589-8481

Piper Assoc., Boston, MA, 617-449-1144

Presentation Sales, Minneapolis, MN, 612-925-2691

Gentner RF Products, PO Box 32550, San Jose, CA, 95152, 408-926-3400

President: John E. Leonard, Jr.

Products: remote control/monitoring system with dial telephone access, provides control of remote equipment (2-way, transmitters, etc.) with digitized voice reporting, auto-

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**Debra A. Pagan
Managing Editor**

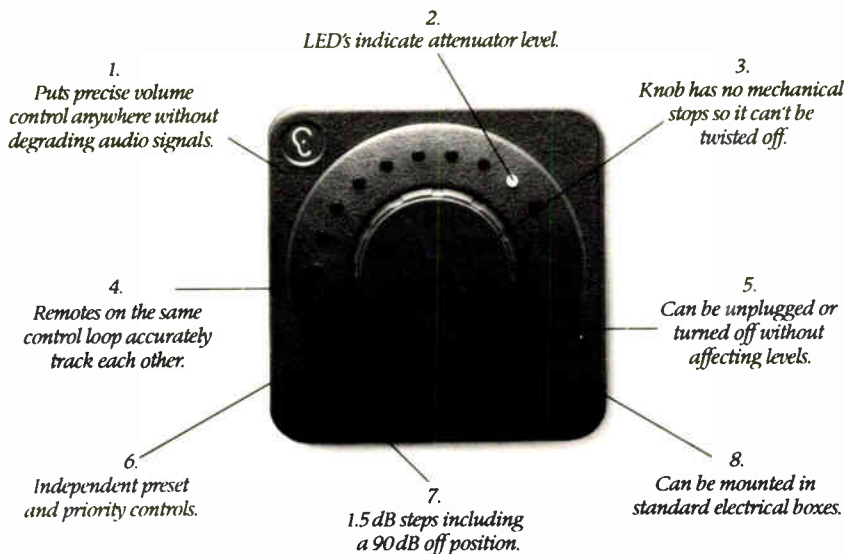
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Circle 279 on Reader Response Card

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District Offices:

Gentner Engineering, Salt Lake City, UT, 801-268-1117

J. W. Davis & Co., 3030 Canton Street, Dallas, TX, 75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

Monroe Electronics, Inc., 100 Housel Ave., Lyndonville, NY, 14098, 716-765-2254

President: W.E. Vosteen

Exec. V.P.: B.D. Ives

Marketing Manager: E.B. Fuller

Products: DTMF remote control units with up to 16 channels of control and monitor, 60 event timer and autodial alarm, tone signal generators and decoders, telephone couplers, audio/video relay panel, programmable timer panel.

Musically Intelligent Devices, 3 Brian St., Commack, NY, 11725, 516-864-1683

Products: recording studio automation.

Oxmoor Corporation, 237 Oxmoor Circle, Birmingham, AL, 35209, 205-942-6779

President: Lynn A. McCroskey

Production Manager: Steve Holt

National Sales Mgr.: Richard Mitchell

Products: DEQ-29 Programmable 1/3 Octave Equalizer

with 100 non-volatile memory locations; DCA-2 Digital Control Attenuator and RC-16 remote control unit; 4x4 Buffer Amplifier with independent mixing busses, any of the four inputs can be assigned to any of the four outputs. See full listing under **Audio Signal Processors**

Protech Audio Corp., Flowerfield, Bldg. #1, St. James, NY 11780, 516-584-5855

Sales Mgr.: Bill Murphy

Sales Engineering: Joe Giambone

Products: automatic level controls, voltage controlled amplifiers, distribution amplifiers, mixers, tone supervisor systems, microphone and line preamplifiers, compressor/limiters, switching cards, ramp controlled preamplifiers, engineered and modular sound systems.

See full listing under **Pro Audio Sound Systems & Products**

Teatronics Inc., 3100 McMillan Road, San Luis Obispo, CA 93401, 805-544-3555

Video Link, Division of Xantech Corp., 12950 Bradley Ave., Sylmar, CA, 91342, 818-362-0353

President: H. E. Seymour

Treasurer: Paul Amutis

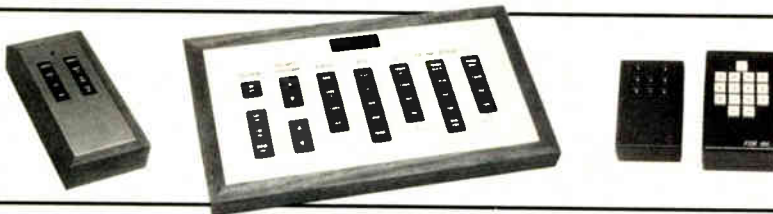
National Sales Manager: David Lorsch

Marketing Manager: Rocky Caldwell

Chief Engineer: Mike Robbins

Products: XTRA-LINK™ - Patented remote control extension relay system, COPYCAT™ - Video stabilizer, COCKPIT™ - Remote control organizer, other video accessories.

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11050



SOUND MASKING PRODUCTS & SYSTEMS

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026, 314-349-3110

Director of Sales: Paul Grote

E. Region/Sales: Andy Musci

W. Region/Sales: Bud Waters

V.P., Consultant for Mkt'g.: Herbert Jaffe

Products: selection of masking loudspeaker assemblies for all installation configurations. Components for sound masking including signal generators, baffles, speaker packages, backbox enclosures, rotary switches and attenuators, control cabinets and racks, self-contained single unit, sound masking system.

See full listing under **Loudspeakers**

Dukane Corporation, 2900 Dukane Dr., St. Charles, IL, 60174, 312-584-2300

President: Jack Stone

Marketing Mgr.: Craig Lyons

Distributor Sales Mgr.: Doug Fellabaum

Service Manager: Cliff Carlson

Division General Mgr.: Steve Deppe

Products: standard and special systems of products: nurse call, intercom, voice paging, clock, sound masking, staff registry and voice evacuation systems for health care, institutional and industrial markets.

See full listing under **Portable Sound Systems**

Dyna-Systems, 5371 Tennyson St., Unit 1, Denver, CO, 80212, 303-455-5400

President: Robert C. Chanaud, Ph.D.

Mgr. of Operations: Vince Pietraban

Mkt'g. Director: Thomas A. Koenig

Products: sound masking and paging systems.

Dyna-Systems, Atlanta, GA, 404-429-1570

Insul-Art Acoustics Corp., 107 Allen Blvd., Farmingdale, NY, 11735, 516-694-0002, 800-526-0908

President: Jack D. Leonard

Vice President: Harold Goldstein

Sales Coordinator: Johnathan Leonard

Sales Coordinator: Marge Lohr

Plant Manager: Richard Brunson

Products: Centrallite Sound Masking System, 1/3-band equalizer with built-in noise source, matching preamp and amplifiers; Satellite Sound Masking System, 10-band equalizer with preamp and noise sources all built in; Scamp Sound Masking System, self-contained speaker with noise source built in and volume control.

Intersonics, Inc., 3453 Commercial Ave., Northbrook, IL, 60062, 312-272-1772

President: Dr. Charles Rey

Acoustical Engineering: Thomas Danley

Sales Manager: Tom Melzer

Products: Servodrive Subwoofers(SDL), featuring the new line of SDL-series subwoofers. These are run by a hi-tech servomotor and a rotary-to-linear converter, no voice-coils. An active cooling system eliminates output loss caused by heat - an industry first.

See full listing under **Loudspeakers**

J. W. Davis & Co., 3030 Canton Street, Dallas, TX,

75226, 214-651-7341, in TX, 800-442-1564, Nationally 800-527-5705

President: Charles Griffiths

Vice President/Sales: Jack W. Tucker

Products: Patronis Pataxial Speaker Systems PA-150 and PA-70, Bessel Array Columns.

See full listing under **Audio Amplifiers**

Clark-Teknik Electronics, Inc., 30B Banfi Plaza N, Farmingdale, NY, 11735, 516-249-3660

President: Jack Kelly

Sales Manager: Keith Worsley

Salesman: Harry Klane

Service Manager: Jim Jacobelli

Products: 1/3 and 2/3 octave graphic equalizers, parametric equalizers, digital delay lines, digital reverberation systems, sound masking processors, reference monitors, 1/3 octave RTA w/RT-60 measurement capabilities, BSS crossovers, compressor/limiter, MIDI noise gate, mic splitter, ancillary equipment.

See full listing under **Audio Signal Processors**

Lyntec/Technical Visuals, 7030 Grandview, Merriam, KS, 66204, 913-722-4047

President: Lynn J. Potter

Products: programmable audio controller for time/level control of masking noise & music/paging. Masking noise source with SLO-START. Programmable Multi-channel attenuator for remote selection of A, B, or C field presettable levels & mute.

Oaktron Industries, Inc., 1000 30th St., Monroe, WI, 53566, 800-257-4538

President/CEO: Jerry Disch

Executive V. P.: Bob Taller

V. P. Sales: Jim Hendrickson

Products: commercial loudspeakers and accessories, sound masking speakers. Background and paging systems and a total line of accessories.

See full listing under **Loudspeakers**

Office Technologies, 4551 Bloomington Ave., S., Minneapolis, MN, 55407, 612-721-2457

President: Steven J. Orfield

Vice President/Sales: Marianne Seitz

Products: sound masking system components; 70 volt masking systems; master units with masking generator, amp and equalizer; 8-inch speakers in enclosures; power supply and power cables; speakers and enclosures for central systems.

District Offices:

Raleigh C. Ferry & Assoc., Inc., Buford, GA, 404-945-3142

Powertronix, 10623 Lawson River Ave., Fountain Valley, CA, 92708, 714-963-5411

President: Robert Gehlke

Sales Mgr.: Bill Organ

Products: self-contained 200 watt voice evacuation system; 400 watt current drive distribution amplifiers with 24V 48VDC emergency back-up power capability; 24VDC mobile amplifier with three electronically-switched, prioritized inputs.

See full listing under **Audio Amplifiers**

Rane Corp., 6510 216th S.W., Mountlake Terrace, WA,

98043, 206-774-7309

V.P. Marketing: Larry Winter

Dir. Tech. Dev.: Terry Pennington

Products: graphic and parametric equalizers, real-time analyzers, headphone amps, active crossovers, program mixers, splitters, compressor/limiters.

See full listing under **Audio Signal Processors**

SonoMask Systems, Inc., 1130 Route 22 West,
Mountainside, NJ, 07092, 201-232-7000

Products: noise masking components and systems.

TOA Electronics, Inc, 480 Carlton Court, South San
Francisco, CA, 94080, 415-588-2538

President: Yoshiro Ishida

V. P./Treasurer: Tom Kohsaka

Vice President: Bill Hooper

Controller: Cal Weddle

Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

White Instruments, P.O. Box 698, Austin, TX, 78767, 512-892-0752, TLX: 776-409 INST AUS

President: Carl Van Ryswyk

Vice President: Shirley Van Ryswyk

Mkt'g. Manager: Emory Straus

Products: graphic equalizers, real-time analyzers, crossover networks & filters for audio applications, masking generators.

See full listing under **Audio Signal Processors**

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TELECONFERENCING SYSTEMS

Ansett Technologies, Inc., 7595 E. Gray Rd., Scottsdale, AZ, 85260, 602-483-2956

Auditel Systems Ltd, 78 Ashbridge Road, Chesham, Bucks, England, HP5 2PY, 0494-778 043

President: David A. Langtry

Sales Director: Tony Roberson

Products: conference communication systems including manual and computer controlled microphone systems. Audio systems cover input mixing switching systems and multi-channel distribution by cable, induction loop, and infra-red.

District Offices:

Wood and Co., Buffalo, NY, 716-886-1615

Avtec Industries, Inc, 5 Audrey Pl., Fairfield, NJ, 07006, 201-882-9460

Products: Vantage Point™ multi-media lecturn and Conferscan™ boardroom conference table designed to record meetings (audio and video).

See full listing under **A-Visual Equipment/Systems**

Colorado Video, P.O. Box 928, Boulder, CO, 80306, 303-530-9580

Compression Labs Inc., 2305 Bering Dr., San Jose, CA, 95131, 408-435-3000

Products: video teleconferencing.

DIS-USA, 2831 15th St. NW, Washington, DC, 20009, 202-387-7934

President: Jack Cassell

Vice President: Michael Bier

Products: computerized microphone systems, simultaneous translation systems, computerized voting systems. Services include sales, engineering, installation, and rental of equipment and systems.

District Offices:

DIS Congress Service, Copenhagen, Denmark, 171-2244

Eby Co., 2751 Southampton Rd., Philadelphia, PA, 19154, 215-969-4200

FSR, Inc., 220 Little Falls Rd, Cedar Grove, NJ, 07009, 201-239-0988

President: William G. Fitzsimmons

Vice President: Janice Sandri

Engineering Mgr.: Joseph Fischer

Production Mgr.: John Macaluso

Service Dept.: Robert Allen

Products: boardroom control systems (digital, IR and hard-wired); hotel audio combining systems; remote control modules for audio and video applications; custom engineering and metal products.

See full listing under **Remote Controls**

Gentner Engineering Co., Inc., 540 W. 3560 South, Salt Lake City, UT, 84115, 801-268-1117

President: Russell Gentner

Sales Manager: Gary Crowder

Marketing Manager: Elaine Jones

Dir. of Engineering: William Gillman

Sales Engineer: David Pedersen

Products: teleconferencing system with high quality telephone audio; telephone interface products (couplers, hybrids); pre-wired audio patch panels; audio products (intercom, distribution amp, turntable preamp, timer, switchers).

District Offices:

Gentner RF Products, San Jose, CA, 408-926-3400

Rauland-Borg Corp., 3535 W. Addison St., Chicago, IL, 60618, 312-267-1300

President: William Krucks

Sr. V. P.: Kenneth T. James

National Sales Manager: Rick Blunt

Chief Engineer: Lawrence Gleason

Products: amplifiers, preamplifiers, mixers, equalizers, intercoms, telephone systems, school communications systems, health care communications systems, professional sound systems, paging systems, AM-FM tuners, loud-speaker systems.

See full listing under **Pro Audio Sound Systems & Products**

Shure Brothers, Inc, 222 Hartrey Ave, Evanston, IL, 60202-3696, 312-866-2200

President: James Kogen

V.P. Sales/Mkt'g: Richard Murphy

Marketing Manager: Sandy Schroeder

Sales: Tim Vear

Sr. Product Cdr: Max Ann Buchanan

Products: microphones and accessories, wireless microphone systems, mixers and related circuitry products, automatic microphone systems, compact sound reinforcement systems, teleconferencing systems.

See full listing under **Microphones**

Sound Control Technologies, Inc., 114A Washington Street, Norwalk, CT, 06854, 203-854-5701

President: Adolph Neaderland

Sales/Mkt'g: David Neaderland

Products: full duplex patented VOICELIFT™ voice reinforcement and TELEPLEX™ teleconferencing systems for boardrooms, conference and training rooms and teleconferencing areas. Proprietary implant microphones for both plenum and non-plenum installations.

District Offices:

Allwest Electronics, Comarillo, CA, 805-388-1789

Meyer Marketing, Deerfield Beach, FL, 305-481-9250

Unex, A Dynatech Company, 4 Kidder Road, Chelmsford, MA, 01824, 617-256-8222

Products: infrared professional sound system for churches, schools, nursing homes, and auditoriums; connects easily to existing audio systems for interference-free aid to the hearing-impaired who wear lightweight wireless receivers.

See full listing under **Hearing Assistance Systems**

Westell, Inc., 7630 Quincy St., Willowbrook, IL, 60521, 800-323-6883

Products: audio teleconference bridges, terminals, and speakerphones for customer, premise or central office use.

TELEPHONE SYSTEMS - KEYPHONES

Plant Equipment Inc., 28075 Diaz Rd., Temecula, CA,
92390, 714-676-4802

Telepath Industries, Inc., 3361 Melrose Ave., N.W.,
Roanoke, VA, 24017, 703-982-8844
Products: key system intercoms; PBX paging adapters;
code-call units, complete line of 1A2 key enhancement
products.

TIE/Communications Inc., 5 Research Dr., Shelton, CT,
06484, 203-926-2000

TN Communications Corp., 42-15 Crescent St., Long
Island City, NY, 11101, 718-729-9400
Vice President: R. A. Humphrey
Vice President: W. J. Strauss
Products: key telephone systems, PBX, intercom systems,
stock trader turrets.

Toshiba America, Inc., Telecommunications Systems Div.,
2441 Michelle Dr., Tustin, CA, 92680, 714-669-5197
Products: the Strata series of electronic key systems that
serves 2 to 56 users; microprocessor-based stored pro-
gram control technology provides an abundance of
features.

Unistrut, GTE Prod. Corp., 35005 Michigan Ave. W.,
Wayne, MI, 48184, 313-721-4040

V-Band Systems, Inc., 5 Odell Plaza, Yonkers, NY, 10701,
914-964-0900
Products: electronic key telephone systems for the finan-
cial community, 911 applications, load control centers and
military communications.

Walker Telecommunications Corp., 200 Oser Avenue,
Hauppauge, NY, 11788, 516-435-1100
President/CEO: Burt Walker
Products: programmable electronic key system combining
a wide range of standard and advanced features with
unique modular expansion capabilities that allow it to grow
from 6 lines and 12 phones to 30 lines and 60 phones in
two easy, add-on steps. Also, WALKER MVP voicepro-
cessing system that provides voice-mail and messaging on
an individual basis.
Walker Telecommunications Corp. of Canada, Ontario, CN,
416-477-0395

TELEPHONE SYSTEMS - PBX

Digital Sound Corp., 2030 Alameda Padre Serra, Santa
Barbara, CA, 93103, 805-569-0700
Products: digital sound 2000.

Harris Digital Telephone Systems, 1 Digital Dr., Novato, CA
94948, 415-472-2500

Inter-Tel, Inc., 6505 W. Chandler Blvd., Chandler, AZ,
85226, 602-961-9000

Mitel, Inc., 5400 Broken Sound Blvd. N.W., Boca Raton,
FL, 33431, 305-994-8500
Products: telecommunications equipment & PBX.

Siemens Communications Systems, Inc., 5500 Broken
Sound Blvd., N.W. Boca Raton, FL, 33431, 305-994-8100

Solid State Systems, Inc., 1990 Delk Industrial Blvd.,
Marietta, GA, 30067, 404-423-2200

Teledial Devices Inc., 125 Schmitt Blvd., Farmingdale, NY,
11735, 516-293-8400
Products: PBX and centrix feature phones, secured mem-
ory phones, restriction and courtesies phones. Automatic
memory dials-DTMF and Pulse; toll restriction dials-DTMF
and Pulse; Pulse dials with last number recall; solid state
tone dials; automatic single number dials, data/voice
phone and data sets.

TIE/Communications Inc., 5 Research Dr., Shelton, CT,
06484, 203-926-2000
See full listing under **Telephone Systems - Keyphones**

Tone Commander Systems, Inc., 4320 150th N.E.,
Redmond, WA, 98052-1039, 206-883-3600
Products: PBX and Centrex answering consoles, small
business PBX's multi-link intercoms and key systems and
enhancement products.

Toshiba America, Inc., Telecommunications Systems Div.,
2441 Michelle Dr., Tustin, CA, 92680, 714-669-5197
Products: the Strata series of electronic key systems that
serves 2 to 56 users; microprocessor-based stored pro-
gram control technology provides an abundance of quality
features.
See full listing under **Telephone Systems - Keyphones**

TELEPHONE SYSTEM PERIPHERALS

ACS Communications, 250 Technology Circle, Scotts Valley, CA, 95066, 408-438-3833 (in CA), 800-538-0742
President: Al Butcher

Executive V.P.: Phil Gattay

V.P. Sales: Kurt Siem

V.P. Consumer: George Poston

Products: pioneer line of ultra-light wireband and contour (over-the-ear) telephone headsets, the newest model is the MicroSet™, a minicontour weighing less than 1/5 oz.; units available with connectors compatible with virtually any telephone made today; TelecTret II™ designed specifically for the business user in mind.

District Offices:

Dana Ahern, Quincy, MA, 617-770-9914

Skip Hill, Lonoke, AR, 501, 843-7310

Rod Cur, Denver, CO, 303-322-3646

John Oehler, Maraga, CA, 415-283-5244

Al Gary, Wash. D.C., 202-479-2242

Alaun Engineering, 2305 Florencita Drive, Montrose, CA, 91020, 818-957-0618

President: Al Braun

Marketing: M. E. Antoniak

Advertising: M. Kringen

Products: earphone listening system with automatic volume control for industrial or educational use to furnish data, or entertainment to personnel working at fixed locations or in noisy areas.(i.e. at computer terminals, machines and consoles). Complete multi-channel system.

Audicom, Inc, 8100 Oak Lane Penthouse 401, Miami Lakes, FL, 33016, 305-825-4653

President: Ron Deblinger

Director of Operations: Art Hecht

Director of Mkt'g: Stuart L. Ginsberg

Products: promotions on hold - customized messages with music that callers hear while they wait "on hold."

Telephone system peripherals including digital announcers, multi-line announcers and interactive voice-response systems.

District Offices:

Audiocom, Inc., New York, NY, 212-688-9654

Audiocom, Inc., Chicago, IL, 312-498-2255

Audiocom, Inc., Houston, TX, 713-589-0484

Automation Electronics Corp, 11501 Dublin Blvd., Dublin, CA, 94568, 415-828-2880

BFI Communication Systems, Inc, 1806 Robert Fulton Dr., Suite 210, Reston, VA, 22090, 315-735-9526, 800-654-5097

Products: network access and System 4000 Teleflex (telephone enhancement product), Call DATA/TRAC (stand-alone call accounting system).

Buscom Systems, Inc, 490 Gianni St., Santa Clara, CA, 95054, 408-988-5200

Products: telephone CPE equipment, auto dialer, and call extenders.

Butler National Corp., 8246 Nieman Rd., Lenexa, KS,

66214, 913-888-8585

Products: automatic dialing.

Cambridge Electronics Laboratories, 20 Chester St., Sommerville, MA, 02144-3005, 617-629-2805

President: Dr. Jeffrey Race

Sales Manager: Charlotte Bissell

Products: telecom accessories including PABX/Key System music-on-hold source, mini telephone ringing generator, and Quiklink™ self-contained automatic ring-down unit for office, residence, and security use as a "hotline" and sales/trade-show use as a CO line simulator.

CEAC, Inc, 15 Hunter Loop Rd., Montgomery, AL, 36108
205-263-2311

Products: telephone systems/operator ridges.

Ceeco, 1580 NW 65th Ave., Plantation, FL, 33313, 305-587-5430

Products: autodialer.

Cetec Raymer, 7315 Fulton Ave., N. Hollywood, CA, 91605, 213-875-0423

President: Hugh T. Wilcox

Products: audio equipment for paging, background music and sound systems, including amplifiers, tuners, receivers test equipment, telephone interconnect devices and accessories. Direct connection telephone trunk and station access paging devices.

See full listing under **Paging Systems**

Command Communications, Inc., 800 E. Girard, #416, Denver, CO, 80231, 303-750-6434

Products: message alerting.

Dacon Electronics, 8 Industrial Ave., Upper Saddle, NJ, 07458, 201-825-4640

President: Daniel J. Connelly

V. P. Marketing: James N. Taylor

Technical Support: Rick Herburger

Products: call sequencers answer and hold calls in queue, are compatible with all major telephone/PBX systems and feature a comprehensive management data package. The DART Automatic Receptionist is a single port unit with many features and a cost under \$1000 each.

District Offices:

Dacon Electronics, McLean, VA, 703-883-0770

Dacon Electronics, Cypress, CA, 714-527-9222

Jeff Beyer, Minneapolis, MN, 612-536-9154

Gary Low, Laguna Beach, CA, 714-494-7903

Joan Beachner, Arlington, VA, 703-671-0892

Doorking, 929 W. Hyde Park Blvd., Inglewood, CA, 90302
213-673-3299, 800-826-7493

Products: electronic gate and teleanswering.

ETC, 64 Addison Rd., Glastonbury, CT, 06033, 203-633-3188

Products: implant microphones.

Harris Corporation, Dracon Division, 809 Calle Plano, Camarillo, CA, 93010, 805-987-9511

V.P. Gen'l. Mgr.: John R. Mason

Dir., Domestic Sales: Tom Erdmann

Chief Engineer: Tom Durston

V.P. Sales & Mkt'g.: Jack McGuigan
Products: PAGEPAC telephone integrated loudspeaker paging voice systems, linemen's test sets, craft tools, extensive line of relay racks.
See full listing under **Paging Systems**

Information Dynamics Corp., 1251 Exchange Drive, Richardson, TX, 75240, 214-783-8090
President: Chuck Friedman
V. P. Engineering: Dan Power
Products: busy visual displays, line status indicators, centrex displays, wall displays, stations and trunk displays in all sizes to 240 stations.

International Tapetronics/3M, 2425 S. Main St., P.O. Box 241, Bloomington, IL, 61702, 309-828-1381, 800-447-0414
Marketing Manager: Bob Bomar
Sales Manager: Chuck Kelly
Sales Rep.: John Schaab
Sales Rep.: Tom Becker
Sales Rep.: Jim Woodworth
Products: digital and analog tape cartridge systems, audio routing switchers, telephone answering interfaces and accessories.
See full listing under **Magnetic Tape Systems & Supplies**

Itera Ltd., 73 E. Merrick Road, Freeport, NY, 11520, 516-379-4333
Products: accessories for audio/video and telephones.

ITW Linx, 195 Algonquin Rd., Des Plaines, IL, 60016, 312-296-5469
Products: 66 black terminal component, backboard systems protector.

Melco, A Division of Telzon, 1600 132 Ave. NE, Bellevue, WA, 98005, 206-462-6700
Products: telecommunications.

Metro-Tel Corp., 485-13 So. Broadway, Hicksville, NY, 11801, 516-937-3420
President: Venerando Indelicato
Sales Manager: Steve Shelton
Dir. of Eng.: Don Bellenger
Products: telecommunications test sets and customer premise equipment.
District Offices:
DDI/Buscom, Santa Clara, CA, 408-988-5200

Microvoice Corp., 5 Vanderbilt, Irvine, CA, 92718, 714-859-1091
Products: apex call processor, voice center and voice mail system.

Nevada Western, 930 W. Maude Ave., Sunnyvale, CA, 94086-2801, 408-737-1600
Products: voice data connection systems.

Plantronics, Inc., 1762 Technology Dr., Suite 225, San Jose, CA, 95110, 408-426-5858
R/DC, 920 Holt Road, Webster, NY, 14580, 716-872-2100
Products: Teletrek II, Directory Plus/I.

Raven Electronics Corp., 400 Wolverine Way, Sparks, NV, 89431, 702-359-3700
V.P. & GM Carl A. Dawson
Market Manager: Dave Young
Sales Manager Mil/Gov: Don Chandler
CE Wook Shim
Sr. App. Engineer: Dave Giannotti
Products: Order Wire (engineering service channel) systems, Alarm Reporting and Remote Control systems, and Voice Frequency Switching products for use with microwave radio systems, carrier systems, and fiber optic transmission systems. There are many optional features available with the Order Wire systems for specialized applications.

Ritron, Inc., 148 W. Carmel Dr., P.O. Box 1998, Carmel, IN, 46032, 317-846-1201
Products: electronic telemetry, repeaters and walkie talkies.

Tele-Assemblies, 4 Ferndale Ave., Miller Place, NY, 11764, 516-744-7433
Products: code call unit, telephone relay control, custom telephone circuits.

Telephone Dynamics Corp., 2473 Jerusalem Ave., Box 514, North Bellmore, NY, 11710, 516-221-9870
President: Leonard E. Young
V. P. Operations: Joseph Borg
Products: telephone answering and computerized dialing units - armored telephone headsets.

Telephonic Equipment Corp., 17401 Armstrong Ave., Irvine, CA, 92714, 800-854-8269
President: Henry McNulty
V.P. Marketing/Sales: Gary Sprouse
Inside Sales Manager: Bill Barbarick
Products: call sequencers, ACD's, automated operators, and teleconferencing equipment. Specialize in engineering and custom design plus national installations and service.

Teltone Corporation, 10801 120th Ave. NE, Kirkland, WA, 98036, 206-827-9626
Products: T-310 telephone access unit - RS232-C compatible controller for telephone lines, allowing computers to answer/originate calls, send/receive DTMF signals, couple audio sources onto lines.

TIE/Communications Inc., 5 Research Dr., Shelton, CT, 06484, 203-926-2000
Products: See full listing under **Telephone Systems - Keyphones**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538
President: Yoshiro Ishida
V. P./Treasurer: Tom Kohsaka
V. P.: Bill Hooper
Controller: Cal Weddle
Products: Engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.

See full listing under **Pro Audio Sound Systems & Products**

Viking Electronics, Inc., PO Box 362, 1531 Industrial St., Hudson, WI, 54016, 715-386-8861
President: Lee Berghoff
Vice President: Mary Martin
Chief Engineer: Don Springer
Sales Manager: Roy Crist
Products: door box, DTMF relay closer, paging products, digital announcers, call sequencers, and auto attendants.
District Offices:
Graybar Electronics; all major cities, local listings
North Supply, Industrial Airport, KS, 913-791-7000

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707
President: P. W. Tarlton
V.P. Mktg/Sales: W.L. Goldstein
V.P. Engineering: Stephan W. Andrews
Market Mgr. Tel./Paging: Art Arlow
Market Mgr. Life Safety/Ind.: Rein Haus
Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications.
Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.
See full listing under **Alarm & Security**

TEST EQUIPMENT & TOOLS

3M Minicom Div., Ind. Instrumentation, 3M Center, St. Paul, MI, 55101, 612-733-1110

A&D Engineering, Inc., 1555 McCandless Dr., Milpitas, CA, 95035, 408-263-5333
Products: FFT-Spectrum Analyzers.

A.W. Sperry Instruments Inc., 245 Marcus Blvd., Hauppauge, NY, 11788, 516-231-7050
President: Fred Malawista
V. P. Sales/Mkt'g: Dennis W. Carroll
Controller: Rebecca Bellinato
Engineering Mgr.: Ed Grenzit
Assistant to V. P.: Roseann Bedell
Products: broad line of electrical and electronic test equipment including digital multimeters oscilloscopes, snap arounds, analog multimeters and accessories for all of the above.

Acoustilog, 19 Mercer St., New York, NY, 10013, 212-925-1365
Products: impulser, RT60 meter, and accessories.

Altair Electronics Inc., 1694 Calle Zocalo, Thousand Oaks,

CA, 91360, 805-529-2496
Products: audio tape diagnostics.

Amber Electro Design, Inc., 4810 Jean Talon West, Montreal, Canada, H4P 2N5, 514-735-4105, US 800-361 3697
President: Wayne Jones
Products: 3501 portable audio generator and distortion analyzer, and 5500 Programmable Audio Measurement System a computer-based audio generation and measurement system for level, power, noise, distortion, crosstalk and frequency measurement.

American Reliance Inc., 9241 E. Valley Blvd., Rosemead, CA, 91770, 818-287-8400
Products: digital multimeter.

Anatrol Corp., 10895 Indeco Dr., Cincinnati, OH, 45241, 513-793-8844
Products: FFT, acoustics, and noise and vibration control software.

Apogee Electronics Corp., 1517 20th ST, Santa Monica, CA, 90404, 213-828-1930
Products: realtime analyzers, and digitally-controlled metering systems.

Asaca/Shibasokui, 12509 Beatrice St., Los Angeles, CA, 90066, 213-827-7144, 800-423-6347

Audio Control Industrial, 6520 212th St Southwest, Lynnwood, WA, 98036, 206-775-8461
President: Thomas E. Walker
Products: SA-3050A third octave real time spectrum analyzer with 6 memories, memory averaging, peak hold; pink noise generator, SPL bar graph and digital SPL display, printer interface and internal battery pack optional, calibrated microphone included.

Audio Precision, Inc., PO Box 2209, Beaverton, OR, 97075, 800-231-7350
President: Bob Metzler
Prod. Mkt'g. Mgr.: Adolfo Rodriguez
Products: System One audio test system for harmonic and intermodulation distortion, amplitude & noise, phase, frequency, and wow & flutter, with instant graphic display of test results on IBM-PC® compatible.

Audioanalyse Instruments, Rue de la Fontaine Z.I. Beaucouze, Angers, France, 49000, (41)-48.84.30

AVNC/Instrument Division, 250 Shagbark Dr., RD #1, Cheswick, PA, 15024, 412-265-4444
Products: sound intensity measurement equipment, and calibrated plane wave tube systems.

B & B Systems, Inc., 28111 N. Avenue Stanford, Valencia CA, 91355, 805-257-4853
Products: metering systems.

Banner, P.O. Drawer 1803, Shelby, NC, 28150, 704-487-7012
Products: realtime analyzers.

BBC-Metrawatt/Goerz, 2150 W. 6th Ave., Broomfield, CO

80020, 303-469-5231, 800-821-6327

General Manager: Daric Jarvis

Marketing Manager: Brad Seavoy

Sales Manager: Erik Pfanku

Products: high-frequency waveform recorders and digital storage oscilloscopes with integrated hardcopy; strip chart recorders; XY-recorders and 8-pen digital plotters; analog and digital multimeters; analog oscilloscopes.

Beckman Ind., Instrumentation Div., 630 Puente St., Brea, CA, 92621, 714-773-8111

Products: full-line measuring instruments.

Boonton Electronics Corp., 791 Rt. 10, Randolph, NJ, 07869, 201-584-1077

Products: full-line measuring instruments.

Bruel & Kjaer Instruments, Inc, 185 Forest St., Marlborough, MA, 01752, 617-481-7000

President: G. Perry

V. P. Sales: G. Michel

Products: studio microphones; electroacoustic, building acoustic test and measurement equipment, real time analyzers, speech transmission meter/receiver, sound level meters, etc.

District Offices:

Bruel & Kjaer, Livonia, MI, 313-522-8600

Bruel & Kjaer, Hoffman Estates, IL, 312-358-7582

Bruel & Kjaer, Anaheim, CA, 714-978-8066

Bruel & Kjaer, Marietta, GA, 404-422-5200

Bruel & Kjaer, West Caldwell, NJ, 201-227-6100

Celestial Software, Inc., 125 University Ave., Berkeley, CA, 94710, 415-420-0300

Cetec Ivie, 1366 West Center St, Orem, UT, 84057, 801-224-1800

President: Craig Berry

Mkt'g Manager: Glen Meyer

Production Manager: Larry Driskill

Products: a complete line of modular sound reinforcement electronics including mixers, equalizers, amplifiers, etc.

We also have a line of octave & 1/3 octave hand-held real time analyzers and stand alone automatic microphone mixers.

See full listing under **Audio Signal Processors**

Chadwick Helmuth, 4601 N. Arden Dr., El Monte, CA, 91731, 818-575-6161

Products: vibration analysis control.

Communications Co., Inc, 3490 Noell St., San Diego, CA, 92110, 619-297-3261

Products: programmable two-way intercom amplifier w/vox., media distribution amplifier, projector patch, room combining systems, record patch, RT-60 reverberation measuring device, burst octave noise generator, 1/3 octave real time analyzer, 27 B.I.T. oscilloscope adapter, audio inductive loop receivers.

See full listing under **Intercom Institutional/School**

Cyborg Corp., 55 Chapel St., Newton, MA, 02158, 617-964-9020

Products: FFT instrumentation for acoustics.

Dallas Instruments, Inc., 10205 Plano Rd., Dallas, TX, 75238, 800-527-7071

Data Check Corp., 9918 Via Pasar, San Diego, CA, 92126, 619-578-0101

Products: instrumentation for tape recorders.

Data Physics Corp., 1210 S. Bascom Ave., Suite 224, San Jose, CA, 95128, 408-977-0800

Products: FFT intrumentaion for acoustics.

Data Precision, Div. Analogic, Electronics Ave., Danvers, MA, 01923, 617-246-1600

Datacraft, Inc., 13714 S. Normandie, Gardena, CA, 90249, 213-321-2320

Davis Instruments Mfg. Co., Inc., 513 E. 36th St., Baltimore, MD, 21218, 301-243-4301

DAX Audio Group, Inc., 1231 S.E. Gideon St., Portland, OR, 97202, 503-232-4445

President: Rich Stevenson

Engineering Manager: Bob Herb

Products: graphic equalizers, 31-bands, dual 15-band, and dual 31-bands; mixing consoles from 8x2 to 32x8; powered mixers in 6 and 8 channels; real-time analyzer; amplifier; crossover.

See full listing under **Mixers & Mixing Consoles**

dbx, Div. of BSR North America, Ltd., 71 Chapel St., Newton, MA, 02195, 617-964-3210

Sales Mgr., Pro/OEM Products: John Stiernberg

Dir. of Prod. Development: Scott Berdell

V.P. Engineering: Les Tyler

V.P. Sales: Jim Tipton

President: A.J. Menozzi

Products: patented noise reduction equipment, compressor/limiters, de-essers, noise-gates, RTA-1 real-time analysis system, equalizers, signal routing and processing equipment; patented OEM components, and licensed technology; digital signal processors.

See full listing under **Audio Signal Processors**

DSP Development Corp., One Kendall Square, Cambridge, MA, 02139, 617-577-1133

Dunegan Div., Physical Acoustics Corp., 19-B Thomas St., Irvine, CA, 92718, 714-380-1544

Dynamic Software Systems, 6272 Guyson Ct., Pleasanton, CA, 94566, 415-484-1111

Eaton Corp., 1199 S. Chillicothe Road, Aurora, OH, 44202, 216-562-9111

Endevco, 30700 Rancho Viejo Rd., San Juan Capistrano, CA, 92675, 714-493-8181

Four Designs Co., 6531 Gross Ave., Canoga Park, CA, 91307, 818-716-8540

Products: studio rackmount furniture units, portable plastic rack units, cable testers, mic splitters, audio cable adapters. See full listing under **Cabinets, Furniture, Cases, & Racks**

GenRad Inc., 300 Baker Ave., Concord, MA, 01742, 617-369-4400

Products: full-line of instrumentation from SPL meters to dual-channel FFT analyzers.

GHI Systems, Inc., 916 N. Western Ave., 201, San Pedro, CA, 90732, 213-548-6544

Products: integrated test systems, shock and vibration analyzers & door alarms.

Gold Line, P.O. Box 115, W. Redding, CT, 06896, 203-938-2588

President: Martin E. Miller

V.P. Marketing: Marj Miller

Products: 10-band and 1/3-octave real-time analyzers, Loft Professional crossovers and quad-gate limiters, and Loftech audio test sets.

See full listing under **Pro Audio Sound Systems & Products**

Grozier Technical Systems, Inc., 157 Salisbury Rd., Brookline, MA, 02146, 617-277-1133

President: Richard G. Cann

Products: sound level monitoring systems for recording and controlling sound levels. Impulsive noise sources and signal processing instrumentation.

Gulton Industries/Servonic Div., 1644 Whittier Ave., Costa Mesa, CA, 92627, 714-642-2400

Products: transducers, measurement and control.

Harris Corporation, Dracon Division, 809 Calle Plano, Camarillo, CA, 93010, 805-987-9511

V.P. Gen'l. Mgr.: John R. Mason

Dir., Domestic Sales: Tom Erdmann

Chief Engineer: Tom Durston

V.P. Sales & Mkt'g.: Jack McGuigan

Products: PAGEPAC telephone integrated loudspeaker paging voice systems, linemen's test sets, craft tools, extensive line of relay racks.

See full listing under **Paging Systems**

Heath Co., Hilltop Road, St. Joseph, MI, 49085, 616-982-3200

Products: diverse electronic test equipment.

Hewlett-Packard Co., 1820 Embarcadero Rd., Palo Alto, CA, 94303

Products: full-line of instrumentation from signal generators, oscilloscopes, to dual-channel spectrum analyzers, plotters, and computers.

Hitachi Denshi America Ltd., 175 Crossway Park West, Woodbury, NY, 11797, 516-921-7200, 800-824-9751

Products: oscilloscopes.

Hoffend & Sons, Inc., 34 E. Main St., Honeoye, NY, 14471, 716-229-5998

Products: stress and load meter.

Honeywell Test Instruments Div., PO Box 5227, Denver, CO, 80217, 303-773-4700

Products: dual-channel spectrum analyzers.

IQS, Inc., 12812-J Garden Grove Blvd., Garden Grove, CA,

92643, 714-539-7842

President: William Elder

V. P.: Douglas Evered

Products: Audio Signal Analyzers, PC-based Models 401 and 416-2a single and dual channel; Reference Microphones - Model 302, 20-20kHz; Model 312, 5-40kHz; Arbitrary Waveform Signal Generator - Model SSM-1; Audi Analysis FFT Software - Spectrum Analyst Pak 1® Signal Analyst Pak®.

Iwatsu America, Inc., 430 Commerce Blvd., Carlstadt, NJ, 07072, 201-935-8580

Products: oscilloscopes.

Jensen Tools, Inc., 7815 S. 46th St., Phoenix, AZ, 85044 602-968-6241

President/Gen. Mgr.: Arnold Schwartz

Sales Manager: Herb Oberman

Prod. Engineer Mgr.: Sherman Jensen

Products: electronic tools, tool kits, test equipment for service, maintenance and repair of electronics, telecommunications, and computer equipment.

Jensen Transformers, Inc., 10735 Burbank Blvd., N. Hollywood, CA, 91601, 213-876-0059

President: Deane Jensen

Products: audio transformers, microphone preamplifiers-Jensen Twin Servo 990, power amplifiers-Boulder 500, 160, Opamps-990-C, software-circuit simulation for HP desktops.

See full listing under **Audio Amplifiers**

John Fluke Mfg. Co., Inc., P.O. Box 9090, Everett, WA, 98206

Products: full-line of hand-held and bench-top instrumentation.

Kay Elemetrics Corp., 12 Maple Ave., Pine Brook, NJ, 07058, 201-227-2000

President: John M. Crump

SalesMgr.: Stephen Crump

Dir. Engineering: Bill Harbeson

Purchasing Agent: Marsden Shaw

Dir. of Advertising: Cathy Ditzig

Products: acoustic analysis equipment. DSP Sonograph™ analyzes speech signals in real time on a color display monitor, narrow and wide-band spectrographic analysis. Visi-Pitch® clinical biofeedback tool used in speech evaluation training.

District Offices:

Mark V, Mountainview, CA, 415-964-6275

Keithley Instruments Div., 28775 Aurora Rd., Cleveland, OH, 44139, 216-248-0400

Products: full-line of hand-held and bench-top instrumentation.

Kinometrics/TrueTime, 3243 Santa Rosa Ave., Santa Rosa, CA, 95407, 707-528-1230

VP/General Manager: John vanGroos

Sales Manager: Rick Dielman

Engineering Manager: Ed Petroka

Production Manger: Gerry Wilson

Purchasing Agent: Chuck Hundley

Products: synchronized digital clocks and frequency comparators, receiving signals from NBS (National Bureau of

Standards) & US Naval Observatory (WWV, WWVH, WWVB, OMEGA, GOES, GPS, MSFIDCTI). Provide accurate time worldwide.

Krohn-Hite Corp., 255 Bodwell St., Avon, MA, 02322, 617-580-1660
Products: generators, filter, and amplifiers for precision measurements.

Larson-Davis Laboratories, 280 S. Main, Pleasant Grove, UT, 84062, 801-785-6352
Products: complete line of hand-held SPL meters, noise measurement equipment, and accessories.

Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY, 11788, 516-231-6900
Products: full-line of measuring instruments and oscilloscopes.

Leasametric Instrument Rental Division, 1164 Triton Dr., Foster City, CA, 94404, 800-553-2255
General Manager: Rick Warp
Product Manager: Mike Nelson
Products: rental, leasing, and used sales of electronic test equipment, industrial test equipment, telecommunications test equipment, microprocessor development systems, logic analyzers, technical desktop computers, and personal computers.
District Offices:
Leasametric, Foster City, CA, 800-553-2255
Leasametric, Media, PA, 800-553-2255
Leasametric, Gaithersburg, MD, 800-553-2255

LEQ Measurements Ltd., 175 Advance Blvd., Brampton, Ontario, Canada, 12, 416-791-3440

MetraByte Corp., 440 Myles Standish Blvd., Taunton, MA, 02780, 617-880-3000
President: Dr. B.W. Philips
V.P. Operations: John Powderly
V.P. Marketing: Robert Judd
V.P. Sales: Bendrix Bailey
Products: a wide variety of data acquisition, industrial control, and communications interfaces for the IBM PC/XT/AT®, and VME Bus computers.

Metrosonics, Inc., PO Box 23075, Rochester, NY, 14692, 716-334-7300
Products: sound measurement.

Multigon Industries, Inc., 559 Gramatan Ave., Mt. Vernon, NY, 10522, 914-664-7300
V. P. : William Stern
Norman Fayne
Robert Frumm
Fishel Botnick
Bernard Miller
Products: Uniscan II, an all digital Fast Fourier (FFT) real time spectrum analyzer with a built-in frequency time history display for spectrum analysis of noise, vibration, and audio analysis of telephone systems. It is ideal for audio signal processing.
District Offices:
William Stern, Mt. Vernon, NY, 914-664-7300

Music Supply Co., Inc., 809 N. Madison, Dallas, TX, 75208, 214-946-8450, 800-527-1522
President: W. E. Brown
Sales: Betty Brown
Products: installation and service aids for the sound contractor and background music operator.
See full listing under **Hardware & Tools**

N. A. Soar Corp., 1126 Cornell Avenue, Cherry Hill, NJ, 08002, 609-488-1060
Products: hand-held, battery-powered, portable LCD oscilloscope, strip-chart recorders, and multimeters.

Nicolet, Oscilloscope Div., 5225 Verona Rd., Madison, WI, 53711-0288, 608-273-5008
Products: oscilloscopes, digital oscilloscopes, and line of spectrum analyzers.

Non-Linear Systems/Div. of Kaypro Corp., 533 Stevens Avenue, Solana Beach, CA, 92075, 619-481-4300
General Manager: Ben Fisher
Products: portable electronic test equipment and digital panel meters.

Norland Corp., Norland Dr., Fort Atkinson, WI, 53538, 414-563-8456
Products: spectrum analyzers.

Panasonic Ind. Co., Instrumentation Dept., Two Panasonic Way, Secaucus, NJ, 07094, 201-392-4050
Department Mgr.: Frank Orrow
Accounts Mgr: Dan Pallas
Accounts Mgr: Howard Anderson
Products: analog and digital oscilloscopes, Logic analyzers, FFT analyzers, Signal generators, Audio analyzers.
District Offices:
Panasonic Industrial Co., Indianapolis, IN, 317-257-4417
Panasonic Industrial Co., Cypress, CA, 714-895-7379

Princeton Applied Research, PO Box 2565, Princeton, NJ, 08540, 609-452-2111
Products: spectrum analysis systems.

Quest Electronics, 510 S. Worthington St., Oconomowoc, WI, 53066, 414-567-9157
V.P./General Manager: Robert J. Wurm
Ass. Manager: Rita Suechting
National Sales Manager: Paul James
Products: complete line of sound measuring and analyzing instruments, and the Silent Page Assistive Listening Device for the hearing impaired.
District Offices:
Quest Electronics, Baltimore, MD, 301-252-3347
Quest Electronics, Atlanta, GA, 404-979-6281
Quest Electronics, Los Angeles, CA, 714-836-5087

Rapid Systems, 433 N. 34th St., Seattle, WA, 98103, 206-547-8311
President: John Overbeck
Chief Engineer: Mark Casebolt
V.P. Marketing: Bo Ray
Applications Engineer: Mark Olsen
Products: PC-based digital storage oscilloscopes and real-time spectrum analyzers in the audio range; low-cost easy to use, with screen display on your computer monitor; save

to disk and hard-copy functions.

District Offices:

EIL Instruments, Sparks, MD, 301-771-4800

Cascade Control, Oyster Bay, NY, 516-922-0071

ASI Assoc., Ann Arbor, MI, 313-663-3733

RC Electronics Inc., 5386 Hollister Ave., Santa Barbara, CA, 93111, 805-964-6708

Products: digital oscilloscopes, AD converters, plug in board data acquisitions for IBM computers.

RE Instruments, 31029 Center Ridge Rd., Westlake, OH, 44145, 216-871-7617

President: Joergen Voldby

Applications Engineer: Steve Watts

Advertising Manager: T. Zavesky

Products: automated audio test systems for tape & tape recorder testing, transmission link testing, and car audio testing. RF signal generators for AM stereo, FM stereo, and FMX, RDS, and MTS test equipment.

Rockland Scientific Corp., 10 Volvo Dr., Rockleigh, NJ, 07647, 201-767-7900

Products: line of spectrum analysis equipment for noise and vibration, speech, and acoustics work.

Rohde & Schwarz-Polarad Inc., 5 Delaware Dr., Lake Success, NY, 11042, 516-328-1100

Scantek Inc./Norwegian Electronics, a/s, 1559 Rockville Pike, Rockville, MD, 20852, 301-468-3502

President: Richard J. Peppin, P.E.

Service Manager: Gary Fraiman

Business Manager: Susan Yardin

Products: precision electronic instrumentation for sound analysis and measurement, includes real-time analyzers, automatic spectrum shapers, building acoustic instruments.

See full listing under **Audio Signal Processors**

Scientific-Atlanta, Spectral Dynamics Div., PO Box 23575, San Diego, CA, 92123, 619-268-710

Products: spectrum analyzers.

Scott Instrument Laboratories, 13 Sagamore Rd., Hudson, NH, 03051, 800-343-0683

Sencore, 3200 Sencore Dr., Souix Falls, SD, 57107, 605-339-0100

Products: full-line of instrumentation for audio, electronics, CCTV, and video work.

Shigma, Inc./Ono Soki C. Ltd., 80 Martin Ln., Elk Grove Village, IL, 60007, 312-640-8640

Products: spectrum analyzers.

SIGnology, 1750 Silacci Dr., Campbell, CA, 95008, 408-374-6464

President: Bill Huber

Sales Manager: Dick Benson

Products: fourier and spectrum analysis systems used to excite and measure the frequency response of; sound processing systems, electrical networks, speakers, and microphones, and measure room acoustics, and auditorium equalization.

Simpson Electric Co., 853 Dundee Ave., Elgin, IL, 60120, 312-697-2260

President: H. B. Washburn

Secretary/Treasurer: D. S. Anderson

Director of Marketing: M. J. Scala

Director of Engineering: J. C. Reich

Products: electronic test equipment. Analog and digital indicating instruments.

District Offices:

Simpson Electric Co., Downey, CA, 213-862-4259

Simpson Electric Co., Great Neck, NY, 516-482-3103

Seacom Sales Co., Lauderdale Lakes, FL, 305-486-0260

Sola, A Unit of General Signal, 1717 Busse Road, Elk Grove Village, IL, 60007, 312-439-2800

Solartron Instruments, Two Westchester Plaza, Elmsford, NY, 10523, 914-592-9168

Soltec Corp., Sol Vista Park, San Fernando, CA, 91340, 818-365-0800

President: Marvin Solomon

V.P. Sales E. Region: Byron McIntire

V.P. Sales W. Region: Gary Paiser

Products: high-performance test & measurement instruments for industries world-wide including high-/low-frequency recorders, digital waveform recorders, and data acquisition systems.

Sound Technology, 1400 Dell Ave, Campbell, CA, 95008, 408-378-6540

President: John E. Williamson

V. P. Engineering: Robert A. Anderson

V. P. Sales and Mkt'g: W. Kent McGuire

Sales and Mkt'g: Cindy Alderson

Products: a full line of professional audio test systems for distortion analysis, tape recorder testing, MTS stereo analyzers, programmable transmission testing and multi-channel switchers. Features include CRT read-outs, hard copy test results, choice of stand-alone operation or standard computer interface buses.

District Offices:

Sound Technology Midwest Office, Hanover Park, IL, 312-289-8419

Funke & Assoc., Campbell, CA, 408-866-0648

Hartmann Assoc., Union, NJ, 201-850-3750

Atlantic Marketing Services, Matthews, NC, 704-542-3380

Charles Lucas Sales Company, Dallas, TX, 214-330-8181

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516

President: Louis W. Keller

V.P. & General Manager: James J. Ganci

V.P./Sales & Marketing: Mel Hulkower

Regional Sales Manager: Eric Forman

Regional Sales Manager: Bruce Kurtz

Products: 60 watt PA amplifier with AM/FM tuner & auto receiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers,

attenuators, microphones, & intercoms.
See full listing under **Audio Amplifiers**

SPM Instrument Inc., 359 N. Main St., Marlborough, CT,
06447, 203-295-8241

Structural/Kinematics Corp., 950 Maplelawn, Troy, MI,
48084, 313-643-4622

TECHRON®

Techron, div. of Crown International, Inc., 1718 W.
Mishawaka Rd., Elkhart, IN, 46517, 219-294-8300
TEF Product Specialist: Larry J. Shank
Products: TEF Acoustic Analyzer measures time of arrival,
RT60, ALcons; simulates anechoic frequency response,
and phase response; generates group-delay, polar plots,
and impedance measurements. Can also function as DVM,
SPL meter, function generator, and oscilloscope.

District Offices:

Aim Marketing Group, Mishawaka, IN, 219-256-2025
Audio Marketing Assoc., Brecksville, OH, 216-526-2426
Audio Resources, Westmont, IL, 312-655-1180
Bensik Assoc., Inc., Ocala, FL, 904-732-9775
Darmstedter Assoc., Baldwinsville, NY, 315-638-1261
Dobbs-Stanford Corp., Dallas, TX, 214-358-0800
GMI/New England, Avon, MA, 617-588-8043
Kodo Assoc., Minneapolis, MN, 612-881-1255
Lichtenauer & Assoc., Antioch, CA, 415-757-1200
Marshank Sales Co., Culver City, CA, 213-559-2591
Metrorep, Freehold, NJ, 201-462-1221
Northshore Marketing, Seattle, WA, 206-284-9699
Pro Tech Marketing, Salt Lake City, UT, 801-943-8331
Secom Systems, Atlanta, GA, 404-455-0672
R.J. Throckmorton, Ballwin, MO, 314-227-7222

Tektronix Inc., P.O. Box 500, Beaverton, OR, 97077, 503-
627-7111800-, 800-547-1512

Products: full-line of audio/electronic measuring
instrumentation including, audio test-sets, distortion
analyzers, function generators, oscilloscopes, and
spectrum analyzers; instrumentation for CCTV and video
testing and calibration.

TeleMatic (division of UXL Corp.), 108-02 Otis Ave.,
Corona, NY, 11368, 718-271-5200

President: Ben Frankenstein

Sales Manager: Neil Howard

Chief Engineer: Salverio Guardi

Office Manager: Dorothy Davis

Products: Color (TV) Monitor Test Jig—including 19" lead-
ed glass CRT with 35kV meter and audio speaker—for
substitutio/test on most popular color monitors. CRT
brightners—isolation-type and regular boost/no boost.

VIZ Test Equipment, 335 E. Prince St., Philadelphia, PA,
19144, 215-844-2626

Wavetek San Diego, Inc., 9045 Balboa Ave., San Diego,
CA, 92123, 619-279-2200

Products: function generators and spectrum analyzers.

White Instruments, P.O. Box 698, Austin, TX, 78767, 512-
892-0752, TLX: 776-409 INST AUS

President: Carl Van Ryswyk

V.P.: Shirley Van Ryswyk

Mkt'g. Mgr.: Emory Straus

Products: graphic equalizers, real-time analyzers,
crossover networks & filters for audio applications, masking
generators.

See full listing under **Audio Signal Processors**

Zonic Corp., 2000 Ford Circle, Milford, OH, 45150, 513-
248-1911

Products: FFT spectrum analyzers.

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EARS OF THE NSCA EXPO."**



TUNERS & CD PLAYERS

Benjamin International, Inc., 1460 Old Country Road, Plainview, NY, 11803, 516-753-0700
President: Joseph N. Benjamin
Vice President: Charles Tanner
Products: background music equipment including cassette and CD changers, bulk tape erasers and professional tape splicers.
See full listing under **Back/Foreground Systems Libraries**

Bogen Communications, Inc., PO Box 575, 50 Spring St., Ramsey, NJ, 07446, 201-934-8500
President: John H. Ochtera
V.P. Marketing: Carl C. Dorwaldt
Nat'l. Sales Mgr.: David A. Chambers
Products: commercial sound and communication systems and equipment, including amplifiers, mixer-preamplifiers, loudspeakers and horns (including amplified types), telephone paging equipment, FM/AM tuners and receivers, intercoms, microphones, centralized sound systems, audio surveillance monitor.
See full listing under **Audio Amplifiers**

Paso Sound Products, 14 First St., Pelham, NY, 10803, 914-738-4800
Executive V.P.: Paul Mastrangelo
Sales Manager: David Moore
Product Manager: Ken O'Brien
Credit Manager: Marilyn Beckerson
Operations Manager: Anthony Sgueglia
Products: comprehensive line of commercial sound equipment including 4000 series engineered sound systems. Hexcolumn loudspeakers, Handler's microphones, CMDS components, Elvox intercoms, packaged sound systems, Nikko Audio products.
See full listing under **Audio Amplifiers**

Precision Electronics, Inc., 9101 King St., Franklin Park, IL, 60131, 312-678-5350
President: William S. Grommes
Chief Engineer: A.A. Hart
Sales Manager: William Stow
Products: General Manager: G. Hussain
PA amplifiers, mixer preamplifiers, power amplifiers, am/fm tuners, tuner amplifiers with paging, graphic equalizers, automatic volume limiter, telephone music-on-hold amplifier, and sound accessories.
See full listing under **Audio Amplifiers**

Speco Div., Components Specialties, Inc., 1172 Rt. 109, P.O. Box 624, Lindenhurst, NY, 11757, 516-957-8700, 800-645-5516
President: Louis W. Keller
V.P. & General Manager: James J. Ganci
V.P. Sales & Marketing: Mel Hulkower
Regional Sales Manager: Eric Forman
Regional Sales Manager: Bruce Kurtz
Products: 60 watt PA amplifier with AM/FM tuner & auto re-

ceiver cassette, 45 watt PA amp with amplifier tuner; complete line of PA amplifiers; complete line of 8" speakers w/transformers & grilles; wall baffles & wall baffle assemblies, outdoor/indoor, background/foreground enclosed speakers w/25/70V transformers; high-tech ceiling grille, sound columns, & a full line of PA horns, L-Pads, multi-testers & oscilloscopes, megaphones, outdoor speakers attenuators, microphones, & intercoms.
See full listing under **Audio Amplifiers**

Studer Revox America, Inc., 1425 Elm Hill Pike, Nashville TN, 37210, 615-254-5651
V. P./Gen. Mgr.: Thomas E. Mintner
Dir. of Prof. Products: David C. Bowman
Products: audio recorders - super low speed loggers and playback only machines to 2-inch multichannel; professional CD players & cassette recorders; computer controlled automation interface; mixing consoles - 19-inch & portable units to complete studio systems; amplifiers & loudspeakers.
See full listing under **Pro Audio Sound Systems & Products**

Tascam/TEAC Professional Division, 7733 Telegraph Road, Montebello, CA, 90640, 213-726-0303
Marketing Manager: Bill Mohrhoff
Sales Manager: Gregg Hildebrand
W. Reg. Manager: Fred Allard
S. Reg. Manager: Bill Stevens
E. Reg. Manager: Chuck Prada
Products: professional recorder/reproducers from 1/4" 2-track to the ATR-80, a new 2" 24-track designed for video production. Recording and performance consoles from 6-input to the M-600, a 32-input/16-buss large frame console. Also, receivers, cassette decks, and CD players.
See full listing under **Magnetic Tape Systems & Supplies**

Technics Professional, One Panasonic Way, Secaucus, NJ, 07094, 201-348-7000
Products: full line of professional reel-to-reel tape recorders, cassette decks, tuners, receivers, and CD players.
See full listing under **Pro Audio Sound Systems & Products**

TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538
President: Yoshiro Ishida
V. P./Treasurer: Tom Kohsaka
Vice President: Bill Hooper
Controller: Cal Weddle
Products: engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.
See full listing under **Pro Audio Sound Systems & Products**

USED/REBUILT EQUIPMENT & BROKERS

Communication Equipment Brokers, Inc., 1500 W. Carroll Ave., Chicago, IL, 60607, 312-829-8810, 800-621-4397
President: Mark Hastings
Director: John Presti

Products: repair, refurbishing, and resale of telephone equipment, headsets, answering machines, PCBs, consoles (telephone), power supplies, modems, CRT display phones, printers, PBX systems, Key Systems, dialers, peripherals, and more.

Electro Rent Corp., 4209 Vanowen Pl., Burbank, CA, 91505, 818-843-1221

CEO: Dan Greenberg

President: William Weitzman

Products: rent, sell, lease electronic test equipment; general purpose; RF microwave; telecommunications; digital design; data acquisition; data I/O.

District Offices:

ER, San Francisco, CA, 800-421-4848

ER, San Diego, CA, 619-571-7905

ER, Elk Grove, IL, 800-323-8893

ER, Cedar Grove, NJ, 800-631-4278

ER, Norcross, GA, 404-925-9199

Ocean Audio International, Inc., 366 Las Casas Ave., Pacific Palisades, CA, 90272, 213-459-2743

Chief Handler: David Hadler

Products: buy and sell pre-owned audio and electronic equipment, systems, and studios; complete listings.

WIRE/CABLE COMPONENTS

Acopian Corp., Box 638, Easton, PA, 18044, 215-258-5441

All Electronics Corp., PO Box 567, Van Nuys, CA, 91408, 818-904-0524, 800-826-5432

Products: electronic components, parts, and accessories; resistors, capacitors, IC's, relays, switches, transformers, transistors, diodes, semiconductors, and many unusual and hard to find items.

District Offices:

All Electronics Corp., Los Angeles, CA, 213-380-8000

All Electronics Corp., Van Nuys, CA, 818-997-1806

Alpha Wire, 711 Lidgerwood Ave., Elizabeth, NJ, 07207, 201-925-8000

AMF Potter & Brumfield, 200 S. Richland Creek Dr., Princeton, IN, 47671, 812-386-1000

AMP Netcon, P.O. Box 1776, Southeastern, PA, 19482, 215-647-1000

Amphenol Products, 4300 Commerce Court, Lisle, IL, 60532, 312-983-3500

Audio Quest, Inc., PO Box 940, N. Chicago, IL, 60064, 312-473-1200, 800-457-4579

President: Matt Coleman

Marketing Manager: Kimberly Heeres

Products: speaker wire (also Monster Cable) and single conductor wire; convoluted tubing; coaxial and RCA cable speed clips, connectors; terminals, fuses and fuse holders; crimp caps; nuts, bolts, screws, etc.

Audra International, P.O. Box 38, Silverado, CA, 92676, 714-649-2207, TLX: 493 1854

Owner: Algis Renkus

Products: miniature microphones, mic splitters, precision audio transformers, and made-to-order transformers.

See full listing under **Microphones**

Belden Wire & Cable, P.O. Box 1980, Richmond, IN, 47375, 317-983-5200

President: Roger Cornett

General Sales Mgr.: Bill Donahue

Mkt'g Director: Ron Stier

Mkt'g Manager: Dave Billish

Products: electronic wire and cable including coax, plenum, multi-conductor and fiber optic cables.

District Offices:

Atlanta, GA, 404-934-6767

Oakbrook, IL, 312-574-0800

Dallas, TX, 214-788-4300

Shrewsbury, MA, 617-845-5000

Irvine, CA, 714-474-1200

Berk-Tek, Inc., RD 1, Box 888, New Holland, PA, 17557, 717-354-6200, 800-237-5835

President: Joseph L. Boscov

V.P. Sales/Mkt'g: Sue Stefar

Corporate Controller: Steve Bright

V.P. Production: Hal Styer

Nat'l. Sales Manager: Chet Klinke

Products: plenum and vinyl data, and telecommunication cables in electronic and fiber optic designs. Coaxial and fiber optic connectors are also available.

District Offices:

Arnold Harris, Clinton, MA, 617-365-6364

Berk-Tek Warehouse, Torrance, CA, 213-327-6848

Jerry Petty, Dallas, TX, 214-386-3809

Frank Smith, Huntingtown, MD, 301-855-1258

David Zaabel, Schaumburg, IL, 312-980-8805

BI-Tronics, Inc, 76 Main Street P.O. Box 125, Tuckahoe, NY, 10707, 914-793-3221, 800-522-7377

President: J. Schwartz

Engineering/Sales Mgr.: R. Huppert

Sales Admin.: C. Viafore

Products: audio, video and data cable, connectors, adaptors, tools and installation aids for the professional installer. Featuring MOGAMI Cable products.

Brim Electronics, Inc, 120 Home Place, Lodi, NJ, 07644, 201-796-2886

President: B. Danziger

Products: Sales Manager: Bob Brown

wire, cable (including shielded braiding, retractile cords),

tubing, sleeving, ceramic insulators, adhesive-backed fastening devices, nylon and brass hardware, solderless terminals, plugs, jacks, switches.

District Offices:

GH Assoc., Stow, MA, 617-897-1741

Cabletronix, 366 Washington Street, PO Box 3003, Newburgh, NY, 12550, 914-565-7570, 800-431-WIRE, TLX: 703848, FAX: 914-564-5332

President: Stephen L. Roth

Vice President: Leonard Ellentuch

Products: "amp," connectors; staplers, staples; "B" connectors; bridging clips; Drive-rings; tie wraps; drive pins; electrical, masking and packing tape, molly & toggle bolts; pan head screws and plastic anchors, pole-line hardware, modular blocks (flush and base mount) modular cords and RG 31X jacks, adhesive cable duct, and Fiber optic Cable.

Cal Switch, 13717 S. Normandie Ave, Gardena, CA, 90249, 800-CAL—S—W—C—H

President: Irwin Perlman

Vice President: Bob Andrade

Vice President: Herb Poncher

Products: patch bays, pre-wired jack panels, audio connectors, switch assemblies, test equipment, I.D. col-lars, wire and cable, amp connectors.

See full listing under **Patch Bays & Routing Switchers**

Calrad Engineered Electronic Products, 819 No. Highland Ave., Los Angeles, CA, 90038, 213-465-2131

Canare Cable, Inc, 832 N. Victory Blvd., Burbank, CA, 91502, 818-840-0993

General Manager: Barry Brenner

Products: professional cable products for the sound contractor, broadcast engineer, musical interface specialist, and industrial systems designer. Featuring L-4E6S 'Star Quad' low-noise, flexible mic cable, available in 10-colors.

Champlain Cable Corp., P.O. Box 7, Winooski, VT, 05404, 802-655-2121

Chester Cable/Division of Celwave Systems Inc., P. O. Drawer D, Chester, NY, 10918, 914-469-2141

President: Frank Leibold

V.P. Sales/Mkt'g: Yves Bonnamour

Sales Engineer: Nancy Spadinger

Engineer: Steve Luciana

Inside Sales Rep.: Sheri Hatton

Products: precision video cables, component RGB analog video cables, triax, audio, multiple audio pair cable, microphone, computer cables and custom design cables.

District Offices:

C. H Newson & Assoc., Flouertown, PA, 215-233-0333

G. Thelen & Assoc., Ft. Mitchell, KY, 606-341-8181

Clarostat Mfg. Co., Inc., 3 Washington St., Dover, NH, 03820, 603-742-1120

Clifford, Inc., P.O. Box 51, Bethel, VT, 05032, 802-234-9921

Products: Quick-pull, multi conductor bundle cord.

Connectronics Corporation, 652 Glenbrook Road, Stamford, CT, 06906, 203-324-2889, 800-322-2537

Executive V.P.: Richard Chilvers

Products: specialized high-flexibility colored audio wire and cable-everything from microphone cable through 32-pair foil-shielded multipair, from phono cable to individually shielded and jacketed and color-coded multipairs, from "starquad" to heavy-duty four conductor speakerflex. Portable audio mixing console from "SECK."

District Offices:

GMI, Avon, MA, 617-588-8043

Evans Sales & Marketing, Nashville, TN, 615-297-7997

North Coast Marketing, Erie, PA, 814-456-6435

Pacific Audio Group, Torrance, CA, 213-375-2611

New Horizons, Bannockburn, IL, 312-234-5911

Conquest Electronic Wire & Cable, 7319 Duvan Dr., Box 757, Tinley Park, IL, 60477, 312-429-1770, 800-323-7671, in IL 800-344-2667

President: Robert Jares, Jr.

Vice President: Larry Spalla

Sales Manager: Al Novak

Plant Manager: Mike Sanfilippo

Plant Manager: Dennis Wood

Products: 250 types of bulk wire including alarm, security, co-ax, plenum, telephone, multi-pair audio, microphone, speaker, multi-conductor unshielded, data transmission, computer, station, TELCO cables, computer cables.

See full listing under **Alarm & Security**

Conquest Sound, Inc., 7319 Duvan Dr., Box 757, Tinley Park, IL, 60477, -, 800-323-7671, in IL 800-344-2667

President: Robert Jares, Jr.

Vice President: Larry Spalla

Sales Manager: Al Novak

Plant Manager: Mike Sanfilippo

Plant Manager: Dennis Wood

Products: audio wiring systems from mic cables to splitting systems to multi-channel systems; largest supplier of Switchcraft connectors and parts to audio industry; stock of over 1,000,000 Ft. assorted wire and 200,000 Switchcraft parts; separate division for alarm, co-ax security wire.

See full listing under **Wire/Cable Systems**

Consolidated Electronic Wire & Cable Corp., 11044 King St., Franklin Park, IL, 60131, 312-455-8830, 800-621-4278

Current Cable Co., Inc., 2610 W. Chicago Ave., Chicago, IL, 60622, 312-486-7100, 800-821-2432

President: Arthur Shaiman

Sales Mgr.: Bernard Lewis

Chief Engineer: John Rudd

Products: cables for burglar and fire alarm systems, communications and control systems, direct burial and low-voltage/low-cost E-Series multi-conductor and zip-cord cables. CCTV coaxial cables, multipair UO 1007 and UO 1015 hook-up wire.

CZ Labs, Inc, 55 Railroad Ave., Garnerville, NY, 10923, 914-268-5056

Daburn Electronics and Cable Corp., 70 Oak St., Norwood, NJ, 07648, 201-768-5400

President: Howard Danziger

Nat'l. Sales Manager: Randy Hibshman

Inside Sales Manager: Steve Kirton

Products:

a full line of communications products including wire and cable, shrink tubing, retractile cords, electronic hardware, computer cords and cable, and modular cords cable & accessories. Plenum cable for all NEC codes, RS232 cables, and fiber optic cable. Most orders ship in 24 hours.

District Offices:

Hendrickson Co., N. Scituate, MA, 617-545-0652
FMA Assoc., King of Prussia, PA, 215-337-9211
Impact Electronics, Anaheim, CA, 714-533-1351
KKB Assoc., St. Louis, MO, 314-647-2400
Millar Electronics, Atlanta, GA, 404-634-3350

Delta Wire & Cable, PO Box 833, N. Chicago, IL, 60064, 312-473-4990

President: Matt Coleman
Sales Manager: Perry Stein

Products: wire and cable for audio, telephone, electronic and electric products.

Duncan Electronics, 2865 Fairview Rd., Costa Mesa, CA, 92626, 714-545-8261

Products: potentiometers, slideline, and console faders.

EVG Inc., 1 Lee Place, Freeport, NY, 11520, 516-536-5000

Products: electronic components.

General Instrument Network Cable Div., P. O. Box 1729, Hickory, NC, 28602, 704-324-2200, 800-982-1708

Gotham Audio Corp., 1790 Broadway, New York, NY, 10019-1412, 212-765-3410

President: Russ R. Hamm

Eastern Sales Mgr.: Jerry Graham

Western Sales Mgr.: Juergen Wahl

Sales Engineer: Peter Engel

Products: Neumann condenser microphones, limiters/compressors, and equalizers and accessories; EMT digital delays; Gotham audio cable; K & H loudspeakers, and parametric equalizers; Audio Developments mixers; NTP limiters/compressors and meters.

See full listing under **Microphones**

International Wire & Cable, 520 Bus Ctr Dr, Mt Prospect, IL, 60056, 312-299-0021

ITT Pomona Electronics/Div. ITT Corp., 1500 E. Ninth St., P.O. Box 2767, Pomona, CA, 91766, 714-623-3463

Kable King, P.O. Box 2646, Savannah, GA, 31402, 912-233-8959

King Wire & Cable Corp., 179-45 110th Ave., Jamaica, NY, 11433, 718-657-4422

President: Lester Dorfman

Treasurer & Sec'y.: Henry Zelinger

Vice President: Robert Dorfman

Vice President: Marty Newman

Products: electrical and electronic wire and cable.

District Offices:

King Wire, Dallas, TX, 214-484-8600

King Wire, Ft. Lauderdale, FL, 305-735-1300

King Wire, Cleveland, OH, 216-431-1234

King Wire, Phoenix, AZ, 602-867-1222

Kulka-Smith Inc., 1913 Atlantic Ave., Manasquan, NJ, 08736, 201-223-9400

Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1

President: Leon Goldberg

Sales Manager: Lawrence J. Goldberg

V.P. Finance & Administration: David H. Goldberg

Chief Engineer: Sanford Hoffman

Sales/Service Representative: Linda E. Scaturro

Products: multi-conductor intercom wire and cable, including special purpose cables for CCTV and music systems.

See full listing under **Intercom Apartment/Residential**

Lemo USA, Inc., 335 Tesconi Circle, Santa Rosa, CA, 95401, 707-578-8811

General Manager: Samuel M. Sokolik

National Sales Mgr.: David Battaglia

Sr. Applications Engineer: Bill Lee, P.E.

Materials Control Mgr.: John Connolly

Controller: Cheryl Powers

Products: precision engineered, self-latching quick connect/disconnect cylindrical connectors for audio/video applications. These are available in coaxial, triaxial, multicontact, and mixed coax-multicontact configurations. Cable assemblies available. Custom design requests welcome.

District Offices:

Balzer-Wolf Assoc., Irvine, CA, 714-261-6877

Canavan-Scanlon Assoc., Syracuse, NY, 315-437-1271

Earl & Brown Co., Portland, OR, 503-245-2283

Hanna-Lind, Edina, MN, 612-925-5700

Hollingsworth & Still, Norcross, GA, 800-241-5712

Jim Hughes Co., Dallas, TX, 214-221-1536

Jacobson Assoc., Horsham, PA, 215-674-2937

K/T Depco, Cleveland, OH, 216-442-6200

Mechtronics Sales, Inc., Rockville, MD, 301-340-2130

Midtec Assoc., Lenexa, KS, 913-541-0505

Raines & Assoc., Northbrook, IL, 312-498-0890

Ruppert Sales & Eng., San Jose, CA, 408-998-8717

Sprung-Nussbaum, Englewood, NJ, 201-569-5666

Jack M. Thorpe, East Detroit, MI, 313-779-6363

Tremby Assoc., Albuquerque, NM, 505-266-8616

Zieco, Inc., Boston, MA, 617-861-8300

Mallory Capacitor Co., 3029 E. Washington ST., P.O. Box 372, Indianapolis, IN, 46206, 317-636-5353

Marietta Wire & Cable, 463 Commerce Park Drive, Marietta, GA, 30067, 404-422-5708, 800-692-9473

Marshall Electronics Inc., P.O. Box 2027, Culver City, CA, 90230, 213-390-6608, FAX: 213-391-8926

President: Henry Schultz

V.P. & General Mgr.: Leonard Marshall

Mgr Cust. Svc./Mkt'g: Leroy Ellingworth

Products: Mogami, superflexible cables for audio/video and broadcast; Tajimi precision connectors; Sound Runner Professional Studio Series and speaker cables.

District Offices:

BI-Tronics, Inc., Tuckahoe, NY, 212-402-6600

Evans Sales & Mktg., Nashville, TN, 615-297-7997

Jacobson & Assoc., Newark, CA, 415-791-2336

Microtran Co., Inc., 145 E. Mineola Ave. PO Box 236,
Valley Stream, NY, 11582-0236, 516-561-6050

President: Albert J. Eisenberg

V.P. Sales: Walter Benschler

Chief Engineer: Vulf Ozechov

Products: electronic transformers and inductors, laminated
& toroidal in open, molded, or hermetically sealed con-
struction. Catalog & custom, audio-power, commercial-mili-
tary.

District Offices:

Nationwide sales & distribution network, contact factory.

MS-Audiotran, Laitilantie 10, Helsinki, Finland, 00420,
358-0-566-4644

Music Supply Co., Inc., 809 N. Madison, Dallas, TX, 75208,
214-946-8450, 800-527-1522

President: W. E. Brown

Sales: Betty Brown

Products: installation and service aids for the sound con-
tractor and background music operator.

See full listing under **Hardware & Tools**

National Electric Cable, 1730 Elmhurst Rd., Elk Grove
Village, IL, 60007, 312-593-8100

Nemal Electronics Inc., 12240 N.E. 14th Ave., N. Miami,
FL, 33161, 305-893-3924

President: Benjamin L. Nemser

Products: electronic wire, cable, connectors, and MATV
equipment.

Neutrik/DIALIGHT Corp., 1913 Atlantic Ave.,
Manasquan, NJ, 08753, 201-223-9400

Product Mgr.: James Cowan

Dir. of Sales/Mkt'g.: John McNamara

Such annual reports as the
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FAX 412/222-6420



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World Radio History

CEO: H. Miller

Products: an extensive line of XLR connectors, receptacles, transformers, goosenecks, modules, patch plugs, phone jack/plugs. Included in the line are weatherproof XLR connectors, a new speaker connector, and "Neutricon" a new miniature connector system.

District Offices:

Cartwright & Bean, Atlanta, GA, 404-233-2939

L.D. Lowery, Broomall, PA, 215-356-5300

Moulthrop, Pleasanton, CA, 415-463-0450

Electronic Representatives, Indianapolis, IN, 317-894-1414

Lowall-Kangas, St. Louis, MO, 314-821-4050

Olflex Wire & Cable, Inc., 30 Plymouth St., Fairfield, NJ, 07006, 201-575-1101

Pennwalt Corp., Plastics/Cable Dept., 3 Pkwy., Philadelphia, PA, 19102, 215-587-7520
Products: plenum cable.

Penny & Giles, Inc., 2716 Ocean Park Blvd., Suite 1005, Santa Monica, CA, 90405, 213-452-4995
President: Bob Rose
Vice President: David Melechin
Sales Person: C.J. Melechin
Products: Penny & Giles Professional Studio Faders; Penny & Giles Video T-Bar controllers and joysticks; Mosses & Mitchell jacks and jackfields for audio and video applications.

Quabbin Wire & Cable Co., Inc., 10 Maple St., Ware, MA, 01082, 413-967-6281
President: Paul Engel
Executive V. P.: Deborah Engel
Manager of Marketing: Thomas Russell
National Sales Manager: Joseph Cooper
Manufacturing Manager: George Melnik
Products: plastic insulated, single and multi-conductor, shielded and unshielded wire and cable. These products are used for instrumentation, control, audio, video, communications, computer, data transmission, security, and fire protective applications.
District Offices:
Southern States Wire, Atlanta, GA, 404-455-4075
McCoy Assoc., Inc., Richardson, TX, 214-864-1838
R. F. C. Sales, Brea, CA, 714-990-9695
Rouzer Sales Co., Minneapolis, MN, 612-544-3145

R-Columbia Products Co. Inc., 2008 St. Johns Ave., Highland Park, IL, 60035, 312-432-7915

Remee Wire Products Corp., 41 Bridge St., Florida, NY, 10921, 914-651-4431

Resco, Inc., 366 Washington St., P. O. Box 2244, Newburgh, NY, 12550, 914-565-7583, FAX: 914-564-5332, TLX: 703848
President: Stephen L. Roth
Vice President: Leonard Ellentuch
Products: "B" connectors, "B" bridging clips, plastic anchors, hollow wall anchors, toggle bolts, RJ31X, modular wire bulk. Modular accessories for large-volume manufacturers; computer cable assemblies. Import and export agents of components, devices and special requirements.

RMS Electronics, Inc., 50 Antin Place, Bronx, NY, 10462, 212-892-6700, 800-223-8312

Chairman: Joseph F. Bradway Jr.

President: Roger Nejes

National Sales Manager: Lee R. Heller

Products: MATV, CATV, Audio cassette and telephone accessories, F-connectors, manufacture cable assemblies, replacement video camera with camcorder batteries.

Saxton Wire & Cable Products, Inc., 215 N. Rt. 303, Congers, NY, 10920, 914-268-6846

Shallco, Inc., Box 1089, Smithfield, NC, 27577, 919-934-3135

Shape Magnetronics Inc., 901 DuPage Avenue, Lombard, IL, 60148, 312-620-8394
Products: transformers.

Shure Brothers, Inc, 222 Hartrey Ave, Evanston, IL, 60202-3696, 312-866-2200
President: James Kogen
V.P. Sales/Mkt'g: Richard Murphy
Marketing Manager: Sandy Schroeder
Sales: Tim Vear
Sr. Product Cdr: Max Ann Buchanan
Products: microphones and accessories, wireless microphone systems, mixers and related circuitry products, automatic microphone systems, compact sound reinforcement systems, teleconferencing systems.
See full listing under **Microphones**

Signal Cable Co., 2500 Commonwealth Ave., North Chicago, IL, 60064, 312-689-9090, 800-323-9355
Sales Manager: Don Prochilo
V.P. Sales: Kerry Glicken
Products: electronic wire and cable for the communications industry, PVC, plenum, coaxial, and fire alarm.

Stancor Products, 131 Godfrey St., Logansport, IN, 46947, 219-722-2244

Standard Wire & Cable Co., 2345 Alaska Ave., El Segundo, CA, 90245, 213-536-0006



TAPPAN WIRE • CABLE, INC

Tappan Wire & Cable, Inc., 256 Oak Tree Rd., Tappan, NY, 10983, 914-359-9300

President: Sidney Grant

V.P. Nat'l. Sales Mgr.: Paul Kutcher

Products: shielded and unshielded audio, intercom, instrumentation, video and low-capacitance cables. Belden equivalence, UL and commercial specifications.

District Offices:

Martin Weinberg, Glenside, PA, 215-885-4244

Alby Kurrant, Pittsford, NY, 716-586-1110

Craig Davidson, Gaithersburg, MD, 301-670-0022

Bill Roberts, Norcross, GA, 404-263-9349

TEI Electronics Inc., 570 W. 18th St., Hialeah, FL, 33010,
305-888-3980, 800-327-8811

Teledyne Thermatics, P.O. Box 909, Elm City, NC, 27822,
919-236-4311

Products: Plenair™ (Plenum) wire and cable, U.L. classified
for NEC Articles 800, 760, and 725. Sound, broadcast,
audio, communications, control, instrumentation, comput-
er, paging, energy management, fire alarm, security, and
local area networks.

Trimm Inc., P.O. Box 489, 400 W. Lake Street, Libertyville,
IL, 60048, 312-362-3700

Trompeter Electronics, Inc., P. O. Box 5069, West Lake
Village, CA, 91359, 818-707-2020

Products: coax connectors and video patch panels.



West Penn Wire Corp., 2833 West Chestnut St.,
Washington, PA, 15301, 412-222-7060, 800-245-4964
Vice President: Donald J. Hastings

Sales Manager: Louis Valente

Products: wire and cable for the total communication mar-
ket; specializing in plenum (non-conduit) cables, fire alarm,
CCTV, co-ax for MATV and security, health care cables,
data cables, lo-cap data cables, plenum coax, dual 59 coax.

Wilco Communications Inc., P. O. Box 60579, Sunnyvale,
CA, 94088, 408-746-3993

Zippertubing Co., 13000 S. Broadway, Los Angeles, CA,
90061, 213-321-3901

President: Terry Plummer

Executive V. P.: Bruce Hoffine

Director of Mkt'g: Michael Sullivan

Ziptape Sales Mgr.: Ed Hackett

Southwest Sales Mgr.: Don Ernewein

Products: 'Zip-On' Jacketing for environmental protection
and/or shielding of wire and cable, custom jacketing and
shielding for special applications, wire and cable identifica-
tion systems.

Ziptape Identification Systems, Tempe, AZ, 602-967-
8888

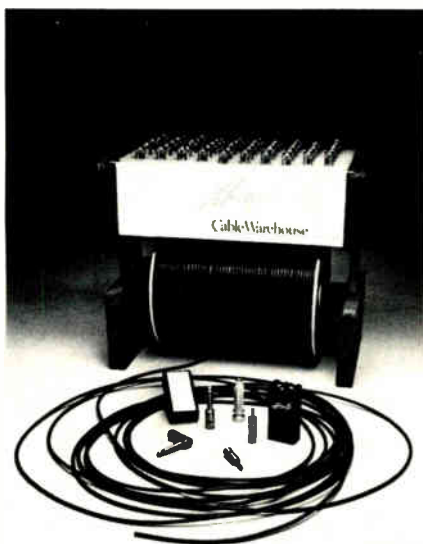
District Offices:

Tom Maguire & Assoc., Norwood, MA, 617-551-0500

Eastern Sales Office, Wayne, NJ, 201-256-4980

Southwest Sales Office, Dallas, TX, 214-931-7060

Components Specialty Co., Cleveland, OH, 216-734-0655

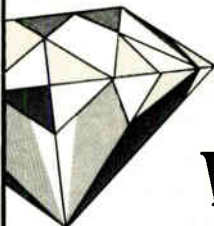
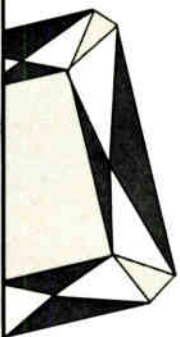


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Audio-Technica U. S., Inc., 1221 Commerce Drive, Stow, OH, 44224, 216-686-2600

President: Jon R. Kelly

V.P. Marketing: Ken Reichel

Nat'l. Sales Mgr./Pro Products: Mark Taylor

Mkt'g. Mgr./Pro Products: Greg Silsby

Sales Mgr./Pro Products: Mike Wuellner

Products: studio condenser microphones, fixed charge condenser microphones, dynamic microphones, UniPoint™ Microphone Series, boundary layer microphones, microphone accessories, mixers, cables, direct boxes, microphone stands and booms, weatherproof hi-fidelity speaker systems.

See full listing under **Microphones**

BI-Tronics, Inc, 76 Main Street P.O. Box 125, Tuckahoe, NY, 10707, 914-793-3221, 800-522-7377

President: J. Schwartz

Engineering/Sales Mgr.: R. Huppert

Sales Admin.: C. Viafore

Products: audio, video and data cable, connectors, adaptors, tools and installation aids for the professional installer. Featuring MOGAMI Cable products.

See full listing under **Wire/Cable Components**

Conquest Sound, Inc., 7319 Duvan Dr., Box 757, Tinley Park, IL, 60477, 800-323-7671, in IL 800-344-2667

President: Robert Jares, Jr.

Vice President: Larry Spalla

Sales Manager: Al Novak

Plant Manager: Mike Sanfilippo

Plant Manager: Dennis Wood

Products: audio wiring systems from mic cables to splitting systems to multi-channel systems; largest supplier of Switchcraft connectors and parts to audio industry; stock of over 1,000,000 Ft. assorted wire and 200,000 Switchcraft parts; separate division for alarm, co-ax security wire.

Dean Markley Electronics Inc., 3350 Scott Blvd., Suite 45, Santa Clara, CA, 95054, 408-988-2456, 800-538-8330

President: Dean Markley

Executive V. P.: Bari Wilson

Nat'l Sales Manager: Tom Dreibelbis

Products: professional audio sound systems and support, powered and non-powered mixers, powered and unpowered enclosures, power amps, microphones, cables and accessories.

See full listing under **Pro Audio Sound Systems & Products**

FM Acoustics Limited (USA), PO Box 854, Benicia, CA, 94510, 707-745-4444

President(FM Acoustics LTD): Manuel Huber

Dir.(FM Acoustics USA): Gene Michalski

Products: line of premium swiss made amplification equipment for studio, theatre and quality sound enhancement applications. Electronic crossovers with 36db attenuation and linear phase. Precision balanced line drivers and line level interfaces. High energy transfer speaker cable.

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See full listing under **Audio Amplifiers**

Four Designs Co., 6531 Gross Ave., Canoga Park, CA,
91307, 818-716-8540
Products: studio rackmount furniture units, portable plastic
rack units, cable testers, mic splitters, audio cable adapters.
See full listing under **Cabinets, Furniture, Cases, &
Racks**

Ideal Wire Products, Inc., Lorum St., Tewksbury, MA,
01876, 617-851-4541
President: Robert T. Leahy
Products: engineered cables for the intercom and sound
contractor.

L and L Sales Co., Inc., 441 E. Old Hickory Blvd., PO Box
238, Madison, TN, 37116, 615-868-6976
President: George Lewis
Vice President: Mona Lewis
Public Relations: Kimberly Lewis
Operations Manager: Lisa Gifford
Products: solderless table systems in the .155 and .225
sizes with 1/4" right-angle audio pin and mini plugs avail-
able in both sizes. We custom make any size table in 20
seconds. Also available is our solderless speaker wire sys-
tem available only with a 1/4" phone plug.

Monster Cable Products, Inc., 101 Townsend St., San
Francisco, CA, 94107, 415-777-1355

Pearson Technologies, 18656 Merridy Street, Northridge,
CA, 91324-1503, 818-885-7191
Products: fiber optic systems, turnkey.

Pro Co Sound, Inc., 135 E. Kalamazoo Ave., Kalamazoo,
MI, 49007, 616-388-9675
President: Charlie Wicks
Vice President: Tish Weber
Nat'l. Sales Mgr. Com.: Jeff Garstick
Nat'l. Sales Mgr. Studio: Jerry Smelker
Chief Engineer: Scott Burnham
Products: wire, connectors, audio interface products, ca-
bling assemblies, and custom fabrication. Helix Standard
HC/20 multi-pair audio systems for portable and permanent
installation, TT448 Patch Bay Systems, Audio Interface,
Linear Crystal Multi-pair, and Quad Microphone Cable.

Rapco Cable & Lighting, Route 1, Box 50, Jackson, MO,
63755, 314-243-1433
President: R.T. Lorenz
Vice President: Phyllis Lorenz
Sales Manager: James LaFerney
Chief Engineer: Mike Torbet
Plant Manager: John Walter
Products: audio cables, interfaces, wire and connectors.
Stagecraft Lighting Division manufactures stage lighting
and related accessories.

Whirlwind Interface International, 100 Boxart St.,
Rochester, NY, 14612, 716-663-8820, 800-772-9997
President: Michael Laiacona
General Manager, V.P.: Jim Bonis
Regional Sales Mgr.: Ray Bellizia
Regional Sales Manager: Will Young
Engineering: Jim Kelsey
Products: instrument cables, microphone cables, multiline
wiring systems, impedance matching devices, speakers
cables, custom wiring systems, bulk cable and connectors,
signal routing devices, cable test equipment, MIDI interface
products, cable reels, and transformers.

Wireworks Corp., 380 Hillside Ave., Hillside, NJ, 07205,
201-686-7400
President: Gerald Krulewicz
Vice President: Larry J. Williams
Customer Service Mgr.: Angela DiCicco
Outside Sales Rep.: Bill Hogan
Products: complete line of audio cabling components and
assemblies - ranging from 3-50 channels. Product line in-
cludes multipin disconnect stageboxes, trunks, tails,
transformer isolated splitters, hardwired multicables, micro-
phone cables, cable reel, and mic cable tester.

SIGNALLING SYSTEMS

Atlas/Soundolier, 1859 Intertech Dr., Fenton, MO, 63026,
314-349-3110
Director of Sales: Paul Grote
E. Region/Sales: Andy Musci
W. Region/Sales: Bud Waters
V.P., Consultant for Mkt'g.: Herbert Jaffe
Products: audio-visual and visual call systems, door
monitors, telephone type and voice intercom signalling.
UL-listed audio evacuation and electronic siren
loudspeakers. Emergency telephone communication
systems and accessories.
See full listing under **Loudspeakers**

Elenex, Inc., 7392 Trade St., San Diego, CA, 92121, 619-
566-7515
President: Sten Persson
V.P. Marketing: Dennis Berglund
Product Sales: Dave Arseneau
Business Manager: Sally Marshall
Products: Freedom™ wireless drive-thru communications,
Moducom™ intercom for drive-thru/correctional high-noise
applications, vehicle sensing equipment, Touch-Mic™
microphone systems, amplifiers, horns, and speech
processing systems.
See full listing under **Intercom Duplex**

Faraday, Inc., 805 S. Maumee St., Tecumseh, MI, 49286, 517-423-2111
 President: Robert Bell
 Executive V.P.: Ron Miller
 District Sales Manager: Chuck Stevens
 Products: fire alarm and life safety detection and signaling equipment, audible and visual signaling devices, corrective clock systems and intercommunications equipment.
 District Offices:
 Al Chaney & Assoc., Miami, FL, 305-558-3933
 Corrigan Agency, Covington, LA, 504-893-7455
 Dardon & Assoc., Olmstead Twp., OH, 216-234-4555
 R.W. Sales, St. Paul, MN, 612-646-2710
 B and E Assoc., San Leandro, CA, 415-351-1550
 Products: standard and customized light signaling systems such as, room status, room sequencing, doctor message, nurse call and patient processing for medical and dental facilities.

Lathem Time Recorder Co., 200 Selig Dr. SW, Atlanta, GA, 30378, 404-691-0400, 800-241-4990
 Executive VP: Bill Lathem
 National Sls Mgr.: Gary Henry
 Sales/Sys. Products: Jack Callihan
 Clock Sys. Sls Rep: Carol Lathem
 Products: LTR Series a full line of electronic master controls, choice of 2, 4, 6, or 8 circuits to control bells, horns, or intercoms; a full line of wall clocks is also available.
 District Offices:
 Lathem Time Ca., Santa Fe Springs, CA, 800-352-4314

Lee Dan Communications, 155 Adams Ave., Hauppauge, NY, 11788-3699, 516-231-1414, NY 800-231-1414, USA 800-LEE DAN1
 President: Leon Goldberg
 Sales Manager: Lawrence J. Goldberg
 V.P. Finance & Administration: David H. Goldberg
 Chief Engineer: Sanford Hoffman
 Sales/Service Representative: Linda E. Scaturro
 Products: communication and security systems for apartment house, home and industry. Intercom, music and paging systems, mailboxes, directories, annunciators, signaling devices, communications cable, nurse-call systems, Enterview audio/visual systems.
 See full listing under **Intercom Apartment/Residential**

Protech Audio Corp., Flowerfield, Bldg. #1, St. James, N 11780, 516-584-5855
 Sales Mgr.: Bill Murphy
 Sales Engineering: Joe Giambone
 Products: automatic level controls, voltage controlled amplifiers, distribution amplifiers, mixers, tone supervisor systems, microphone and line preamplifiers, compressor/limiters, switching cards, ramp controlled preamplifiers, engineered and modular sound systems.
 See full listing under **Pro Audio Sound Systems & Products**


TOA Electronics, Inc, 480 Carlton Court, South San Francisco, CA, 94080, 415-588-2538
 President: Yoshiro Ishida
 V. P./Treasurer: Tom Kohsaka
 V. P.: Bill Hooper
 Controller: Cal Weddle
 Products: Engineered/commercial sound systems; pro-sound systems; amplifiers, signal processors, loudspeakers, microphones, mixers and mixing consoles, wireless systems, microcomputerized intercom systems, CCTV and security systems.
 See full listing under **Pro Audio Sound Systems**

Valcom Inc., 1111 Industry Ave., Roanoke, VA, 24013, 703-982-3900
 President: J.W. Mason
 Sales Manager: Donald Buck
 Chief Engineer: D. Lynch
 Products: telephone integrated paging and intercom systems, talkback, bell-buzzer, code call, PBX adapters, key telephone systems ancillaries, loud-ringers, power supplies, amplified and talkback speakers.
 See full listing under **Paging Systems**

Wheelock, Inc., 273 Branchport Ave., Long Branch, NJ, 07740, 201-222-6880, FAX: 201-222-8707
 President: P. W. Tarlton
 V.P. Mktg/Sales: W.L. Goldstein
 V.P. Engineering: Stephan W. Andrews
 Market Mgr. Tel./Paging: Art Arlow
 Market Mgr. Life Safety/Ind.: Rein Haus
 Products: audible/visual signalling devices for life safety, alarm, industrial, and telephone systems applications. Paging systems for telephone system access. Products include bells, horns, speakers, strobes, chimes, speaker amplifiers, talk-back speakers, zone controls & power supplies.
 See full listing under **Alarm & Security**

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