

suppliers, broadcast automation systems, and a directory of companies providing mobile production services. These listings include addresses, telephone numbers, and names of principal executives. Next are lists of common carriers including land line, microwave & multipoint distribution services. On page 55 a chart shows the growth of broadcasting, and on page 56 a chart shows television and radio set sales from 1958-1981. The last part of Section H begins on page 57 with the 1984 Buyer's Guide, the yellow pages, a commercial directory to both equipment and broadcast services.

**Section I**— is divided into three parts—Professional Services,

Associations, and Broadcast Education. Part one provides listings of brokers and consultants, station financing firms, research services, technical consultants, law firms and attorneys in communications law, public relations services, talent agents, and employment services. Part two, Associations, begins on page I-39 with the National Association of Broadcasters and includes trade organizations, professional associations and societies, and unions. Broadcast Education, part three, opens on page I-60 with broadcasting schools. The section continues with reviews of recently published books related to the Fifth Estate. Section I concludes with a list of colleges and universities offering degrees and courses in radio and television.

## Editorial Index

### A

Abbreviations	xvi
ABC's of the Fifth Estate	A-1
ADI's	C-126
A Short Course in Broadcasting	A-2
A Short Course in Cable	D-3
Advertisers Index	xiv
Advertising Agency Directory	G-1
Ted Bates	G-1
BBDO	G-1
Benton & Bowles	G-1
Leo Burnett	G-2
Dancer Fitzgerald Sample	G-2
D'Arcy-MacManus & Masius	G-2
Doyle, Dane, Bernbach	G-3
Foote, Cone & Belding	G-3
Grey Advertising	G-4
McCann-Erickson	G-5
Ogilvy & Mather	G-5
SSC&B	G-6
J. Walter Thompson	G-6
Young & Rubicam	G-7
Advertising Assns., Media Societies	I-44
Advertising Research Foundation	I-48
Advertising Services	G-7
Affiliates	(see appropriate network)
AFRTS	B-317
Agencies, Advertising	G-1
Agencies, State Cable Regulatory	A-35
Agents, Talent	I-42
Agricultural programming	F-61, F-86
Ampex Corp.	H-2
AM Stations	
By Call Letters, Canada	B-351
By Call Letters, U.S.	B-331
By Frequencies, Bermuda Caribbean	B-314

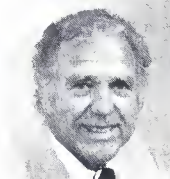
By Frequencies, Canada	B-386
By Frequencies, Mexico	B-312
By Provinces, Canada	B-294
By Frequencies, U.S.	B-353
By States, U.S.	B-1
American Advertising Federation	I-48
American Association of Advertising Agencies	I-48
American Broadcasting Co.	F-31
American Forces Radio & TV	B-317
American Telephone & Telegraph	H-52
American Women in Radio & TV	I-49
Anatomy of Cable Regulation	D-1
Appalachian Community Service Network (ACSN-The Learning Network)	E-3
Applications, TV Stations	C-86
Applying for a Broadcast Station	A-32
APR	F-38
Arbitron	I-17
Artists Representatives	I-42
Assignments of TV Channels, U.S.	C-83
Assignments of FM Stations, U.S.	B-388
Associations, Societies	I-44
Association of Maximum Service Telecasters	I-49
Associations, State Broadcasters	I-53
Associations, State Cable	I-54
AT&T	H-52
Attorneys, Communications	I-27
Audience (Radio & TV)	G-16
Audience Analysis	G-16
Audience in TV Markets	C-126
Audience Measurement Services	I-17
Authorized Broadcast Stations, 1955-1981	A-7
Automated-Channel Suppliers	H-50
Avco-Embassy Pictures Corp.	F-2
Awards & Citations	F-27

Bermuda, Caribbean Radio	B-314
Black Entertainment Television (BET)	E-3
Black Programming	F-63, F-90
Bonneville Productions	F-3
Books Relating to Radio-TV	I-62
Broadcast Automation Systems	H-51
Broadcast Financial Management Association	I-50
Broadcasting Foundation of America	I-50
Broadcast History	A-1
Broadcast Pioneers Library	I-50
Broadcasters in Cable	D-281
Broadcasters State Assns.	I-53
Broadcasting, Evolution of	A-1
Broadcasting Since 1955, Growth of	H-55
Broadcasting, Short Course in	A-2
Brokers and consultants	I-1

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Burnett, Leo	G-2
Business Films	F-1
Buyer's Guide	H-57
Buying/Planning Svcs	G-7

### Hogun - Feldmann, Inc.

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### C

Cable, A Short Course in	D-3
Cable, Basic Services	E-7
Cable, Broadcasters in	D-312
Cable Listings, Key to	D-6
Cable News Network (CNN)	E-4
Cable News Network Headline News	E-4

### B

BASF Corp.	H-6
Basic Cable Services	E-7
Bates, Ted	G-1
BBDO	G-1
Benton & Bowles	G-1

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Cable, newspapers using	D-317
Cable, Pay Services	E-8
Cable Penetration by Market	D-318
Cable Program Services	E-7
Cable Regulation, Anatomy of	D-1
Cable Satellite Public Affairs Network (C-SPAN)	E-4
Cable Regulatory Agencies, State	A-35
Cable State Associations	I-54
Cable systems in Canada	D-276
Cable systems in U.S.	D-7
Cable Television Administration and Marketing Association	I-50
Cabletelevision Advertising Bureau	I-46
Call Letters	
AM Stations (U.S.)	B-331
FM Stations (U.S.)	B-341
TV Stations (U.S.)	C-76
Canada	
AM Stations by Call Letters	B-351
AM Stations by Frequencies	B-386
AM-FM Station Directory	B-294
Cable Systems	D-276
FM by frequency	B-388
FM Stations by Call Letters	B-352
TV by Channel	C-82
TV Station Directory	C-64
TV Stations by Call Letters	C-82
Station Representatives	G-7
Canadian Assn. of Broadcasters	I-50
Canadian Broadcasting Corp.	F-52
Canadian Cable Television Assn.	I-50
Canadian Government	A-35
Canadian Radio-Television and Telecommunications Commission	A-35
Canadian Representatives	G-15
Capital Recording Co.	F-3
Caribbean Radio Stations	B-314
CBN (Christian Broadcasting Network)	E-4, E-7
CBS Inc.	F-38
Cetec	H-9
Channel Suppliers, Automated	H-50
Channels, FM	B-376
Channels, TV	C-79
Christian Broadcasting Network (CBN)	E-4, E-7
Citations and Awards	F-27
Clark, Dick Productions	F-4
Classical programming	F-63, F-91
Closed-Circuit TV	F-27
CNN (Cable News Network)	E-4
CNN Headline News (Cable News Network Headline News)	E-4
Code, NAB Radio-TV	G-15
Colleges Offering Radio-TV Degrees	I-68
Columbia Pictures Television	F-4
Commerce Committees, House and Senate	A-33
Commercial Identification System	G-15
Commercial Producers, Radio	F-1
Commercial Producers, TV	F-1
Common Carriers	E-2, H-52
Communications Attorneys	I-27

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Communications, Canadian	
Department of	A-35
Communications Satellite Corp.	E-1
Community Antenna TV Association	I-48
COMSAT	E-1
Congress, Radio-TV Galleries	I-56
Congressional Committees	A-33
Construction Services	H-1
Consultants (Management, Financial, Program, Sales, Promotion)	I-8
Consultants (Technical, Engineering)	I-20
Contemporary Programming	F-82
Corporation for Public Broadcasting	F-51
Correspondents Assn., Radio-TV	I-52
Country & Western Programming	F-64
County Population of Radio Markets	B-317
Crossownership by Stations	A-59
C-SPAN (Cable Satellite Public Affairs Network)	E-4
CTV Television Network	F-52

**D**

Dancer Fitzgerald Sample	G-2
D'Arcy-MacManus & Masius	G-2
Data processing services	H-51
DBS	A-7, E-6
Demographics, Cable	D-318
Demographics of TV Markets	C-126, C-201, C-204, C-205
Direct Broadcast Satellites	A-7, E-6
Discussion programming	F-81
Disney, Walt Productions	F-5
Distribution Services, Multipoint	H-52
Distributors, Equipment	H-1
Distributors, Programs	F-1
Doyle, Dane, Bernbach	G-3

**E**

Eastman Kodak	H-16
Educational Broadcasting Corp.	F-51
EEV Inc.	H-16
Electronic Media Rating Council	I-47
Electronic Publishing see Teletext, Videotext	
Employment Services	I-43
Engineering Consultants	I-20
Engineers, See Engineering Consultants	

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Entertainment and Sports Programing Network (ESPN) .....	E-4
Equipment Buyer's Guide .....	H-57
Equipment Manufacturers, Distributors .....	H-1
Equipment Manufacturers, International .....	H-44
ESPN (Entertainment and Sports Programing Network) .....	E-4

**F**

Farm Broadcasters, National Assn. of .....	I-47
Farm programing .....	F-61, F-86
Federal Communications Consulting Engineers, Assn. of .....	I-49
Federal Communications Commission Executives & Staff .....	A-8
Organization Chart .....	A-9
Past Members .....	A-10
Rules Regulating Radio-TV .....	A-11
Allocations .....	A-11
Censorship .....	A-31
Common antenna site .....	A-24
Forfeitures .....	A-31
Fraudulent Billing .....	A-28
License renewals .....	A-27
Logs & Records .....	A-31
Lotteries .....	A-31
Multiple ownership .....	A-16
Network affiliation .....	A-22
Operating schedules .....	A-20

Operator requirements .....	A-21	Hearst-ABC Video Services .....	E-4
Personal attacks .....	A-22	High-definition television .....	A-7
Political editorials .....	A-22	History of Broadcasting .....	A-1
Political broadcasts .....	A-29	Hitachi Corp. ....	H-20
Public Notice .....	A-28	Home Box Office (HBO) .....	E-4, F-8
Rebroadcasts .....	A-29	Home Theatre Network Plus (HTN Plus) .....	E-4
Recordings .....	A-29	House Committee on Commerce ..	A-33
Reports .....	A-25	HTN Plus (Home Theatre Network Plus) .....	E-4
Revocations .....	A-30	Hughes Television Network ...	E-4, F-51
Sponsored programs .....	A-28		
Station identification .....	A-27		
Studio origination .....	A-19		

Fifth Estate .....	A-1
Film Distributors for TV .....	F-1
Financial Consultants .....	I-18
Financing, Station .....	I-14
FM Stations	
Assignments of FM Stations, U.S.	B-388
Authorized .....	H-55
By Call Letters, Canada .....	B-352
By Call Letters, U.S. ....	B-341
By Frequency, Canada .....	B-388
By Frequency, U.S. ....	B-376
Channels .....	B-376
Directory of .....	B-1
In Northern Mexico .....	B-314
Foote, Cone & Belding .....	G-3
Foreign TV .....	C-71
Formats, Radio Programing .....	F-61
Frequencies	
Bermuda .....	B-314
Canadian AM .....	B-386
Canadian FM .....	B-388
Mexican AM .....	B-312
Mexican FM .....	B-314
United States AM .....	B-353
United States FM .....	B-376
Frequency Measuring Services ...	H-47
Fujinon Optical Inc. ....	H-18

**G**

Galleries, Radio-TV in Congress ...	I-56
General Electric Co. ....	H-19
GTE .....	H-20
Global Television Network .....	F-53
Government Agencies .....	A-33
Federal Communications Commission .....	A-8
House Committee on Commerce	A-33
National Telecommunications and Information Agency .....	A-33
Senate Committee on Commerce .....	A-33
Supreme Court .....	A-33
Government, Canadian .....	A-35
Grey Advertising .....	G-4
Group Ownership of Stations .....	A-35
Group W Productions .....	F-8
Group W Satellite Communications .	E-4
Growth of Broadcasting .....	H-55

**H**

Harris Corp. ....	H-20
HBO (Home Box Office) .....	E-4, F-8

Ikegami Electronics Corp. ....	H-21
Independent Media Buying/Planning Svcs. ....	G-7
Independent Television News Assn.	I-51
Independent TV Stations, Assn. of .....	I-49
Index to Advertisers .....	xiv
Industry Standard Commercial Identification System .....	G-15
Information Agency, U.S. ....	A-34
Instructional Television Fixed Service (ITFS) .....	A-7
ITC Entertainment .....	F-9
International Assn. of Satellite Users .....	I-51
International Broadcasting .....	B-395
International Equipment Manufacturers .....	H-44
International Producers, Program Suppliers .....	F-21
International Radio and Television Society .....	I-51
International Stations in the U.S. .	B-316
International Television ...	B-395, C-71
ITFS (Instructional Television Fixed Service) .....	A-7

**J**

Jazz programing .....	F-70
Jeroid Electronics Corp. ....	H-24
Jingle Producers .....	F-1

**K**

Key to Cable listings .....	D-6
Key to Radio Listings .....	B-1
Key to Television listings .....	C-1

**L**

Labor Groups & Unions .....	I-55
Labs, TV Processing .....	F-1
Land Lines (AT&T) .....	H-52
Law Firms .....	I-25
Lawyers, Communications .....	I-27
Library, Broadcast Pioneers .....	F-50
License, How to Apply for .....	A-33
Licensing, Music .....	F-30
Low Power TV (LPTV) .....	A-6, C-72

**M**

Magnavox CATV Systems .....	H-27
McCann-Erickson .....	G-5

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Magazine or Newspaper Ownership of Broadcast Stations . . . . .	A-52	Mobile Production Units . . . . .	H-51	Officers . . . . .	I-44	
Management Consultants . . . . .	I-8	Modern Satellite Network . . . . .	E-4	Radio Code . . . . .	G-15	
Managers, Talent . . . . .	I-42	Monitoring Services . . . . .	I-17	TV Code . . . . .	G-15	
Manufacturers of Equipment . . . . .	H-1	MOR (Middle-of-the-Road) programming . . . . .	F-70	National Assn. of Black Owned Broadcasters . . . . .	I-51	
Maps of TV Markets . . . . .	C-126	Motion Picture Assn. of America . . . . .	I-51	National Assn. of Farm Broadcasters . . . . .	I-47	
Market Research Services . . . . .	I-17	Motorola Communications and Electronics . . . . .	H-29	National Assn. of Television Program Executives . . . . .	I-45	
Marketing Guide . . . . .	C-126	MSO's, U.S. . . . .	D-296	National Associations National Black Network . . . . .	F-44	
Markets, ADI TV . . . . .	C-126	MSO's, Top-50 . . . . .	D-320	National Broadcasting Co. . . . .	F-45	
Markets, Cable Penetration of . . . . .	D-318	MTM Enterprises . . . . .	F-12	National Cable Television Assn. . . . .	I-47	
Markets, TV by Size . . . . .	C-201	Multiple Station Owners . . . . .	A-35	National Public Radio . . . . .	F-52	
Markets, TV Demographics . . . . .	C-201, C-204	Multiple Systems Operators, U.S. Multiple Systems Operators, Top-50 . . . . .	D-296 D-320	National Radio Broadcasters Assn. . . . .	I-46	
Markets of TV (Maps) . . . . .	C-126	Multipoint Distribution Services . . . . .	A-7, H-52	National Satellite Cable Assn. . . . .	I-52	
Maximum Service Telecasters, Assn of . . . . .	I-49	Music Licensing Groups . . . . .	F-30	National Telecommunications & Information Administration . . . . .	A-33	
MCA TV . . . . .	F-10	Mutual Broadcasting System . . . . .	F-42	NBC Inc. . . . .	F-45	
MDS . . . . .	A-7, H-52	<b>N</b>			Network Audience in TV Markets Networks . . . . .	C-205
Measuring Services, Frequency . . . . .	H-47	National Academy of Television Arts and Sciences . . . . .	I-51	ABC Executives & Staff . . . . .	F-31	
Media Buying/Planning Services . . . . .	G-7	National Advertisers, Assn. of . . . . .	I-49	APR . . . . .	F-38	
Media Societies, Groups . . . . .	I-48	National Assn of Broadcasters Committees . . . . .	I-44	Canadian . . . . .	F-52	
Mexican Radio Stations . . . . .	B-312			CBS Executives & Staff . . . . .	F-38	
MGM Television . . . . .	F-11			Hughes Television Network . . . . .	F-51	
Microwave . . . . .	H-52					
Middle-of-the-Road programming (MOR) . . . . .	F-70					

## A Glossary of Terms Used in 1984 Yearbook

**Basic cable service**—Package of cable programming provided to subscribers without additional fee.

**Cable television**—System that transmits original programming, and programming of broadcast television stations, to consumers over wired network (see page A-6).

**Clear channel**—AM radio station allowed to dominate its frequency with up to 50 kw of power; their signals are generally protected for distance of up to 750 miles at night.

**Coaxial cable**—Cable with several common axis lines under protective sheath used for television signal transmissions.

**CC**—Closed captioning. Method of transmitting textual information over television channel's vertical blanking interval; transmissions are deciphered with decoders; decoded transmissions appear as text superimposed over television image.

**CED**—Capacitance electronic disk (RCA videodisk).

**Common carrier**—Telecommunications company that provides communications transmission services to public.

**DBS**—Direct broadcast satellite. High powered satellite authorized to broadcast direct to homes (see page A-7).

**Domsat**—Domestic satellite (see page A-6).

**Downlink**—Earth station used to receive signals from satellites.

**Earth station**—Equipment used for transmitting or receiving satellite communications.

**EFT**—Electronic funds transfer.

**EM**—Electronic mail.

**ENG**—Electronic news gathering.

**ETV**—Educational television.

**Footprint**—Area on earth within which satellite's signal can be received.

**Geostationary orbit**—Orbit 22,300 miles above earth's equator where satellites circle earth at same rate earth rotates.

**Ghz**—Gigahertz. 1,000 megahertz.

**HDTV**—High-definition television (see page A-7).

**Headend**—Facility in cable system from which all signals originate. (Local and distant television stations, and satellite programming, are picked up and amplified for retransmission through system.)

**Hertz**—A unit of frequency equal to one cycle per second. One kilohertz is 1,000 hertz; one megahertz is one million hertz; one gigahertz is one billion hertz.

**HUT**—Households using television.

**ITFS**—Instructional Television Fixed Service (see page A-7).

**Khz**—Kilohertz (see Hertz).

**LED**—Light emitting diode. Type of semiconductor that lights up when activated by voltage.

**LO**—Local origination channel.

**LPTV**—Low-power television (see page A-7).

**LV**—LaserVision (optical videodisk).

**MATV**—Master antenna television. Delivery method for pay programming to multi-unit dwellings.

**MDS**—Multipoint distribution service (see page A-7).

**Mhz**—Megahertz (see Hertz).

**Microwave**—Frequencies above 1,000 mhz.

**MSO**—Multiple cable system operator.

**NTSC**—National Television System Committee. Committee that recommended current American standard for color TV.

**PCM**—Pulse code modulation. Conversion of voice signals into digital code.

**PPV**—Pay-per-view.

**PSA**—Public service announcement.

**PTV**—Public television.

**RCC**—Radio common carrier. Common carriers whose major businesses include radio paging and mobile telephone services.

**SCA**—Subsidiary communications authorizations. Authorizations granted to FM broadcasters for using subcarriers on their channels for other communications services.

**Shortwave**—Transmissions on frequencies of 6-25 mhz.

**SHF**—Super high frequency.

**SMATV**—Satellite master antenna television (see page A-7).

**STV**—Subscription television (see page A-6).

**Superstation**—Local TV station whose signal is retransmitted via satellite to cable systems beyond reach of over-the-air signal.

**Tariff**—Common carrier's statement describing services it offers and rates it charges.

**Teletext**—One-way electronic publishing service (see page A-7).

**Translator**—Broadcast station that rebroadcasts signals of other stations without originating its own programming.

**Transponder**—Satellite transmitter/receiver that picks up signals transmitted from earth, translates them into new frequency and amplifies them before retransmitting them back to ground.

**UHF**—Ultra high frequency.

**Uplink**—Earth station used for transmitting to satellite.

**VCR**—Videocassette recorder.

**VHF**—Very high frequency.

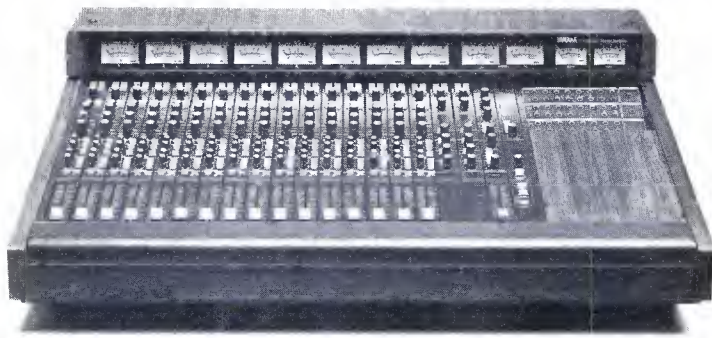
**Videotext**—Two-way interactive service that uses either two-way cable or telephone lines to connect a central computer to a television screen (see page A-7).

**VTR**—Video-tape recorder.



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a  
message  
on  
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RM1608  
recording  
mixer.





# RM1608

## SPECIFICATIONS

### TOTAL HARMONIC DISTORTION (T.H.D.)

Less than 0.1% at +4dB \*output, 20Hz to 20kHz (all Faders and controls at nominal)

### HUM & NOISE (20Hz to 20kHz) $R_s = 150$ ohms (INPUT GAIN "-60")

- 128dB Equivalent Input Noise (E.I.N.)
- 95dB residual output noise: all Faders down.
- 80dB (84dB S/N) PGM Master volume control at maximum and all CH PGM assign switches off.
- 64dB (68dB S/N) PGM Master volume control at maximum and one CH Fader at nominal level.
- 73dB (77dB S/N) STEREO Master Fader at maximum and all CH STEREO level controls at minimum level.
- 64dB (68dB S/N) STEREO Master Fader at maximum and one CH STEREO level control at nominal level.
- 80dB (70dB S/N) ECHO SEND volume at maximum and all CH ECHO volumes at minimum level.
- 75dB (65dB S/N) ECHO SEND volume at maximum and one CH ECHO volume at nominal level.

### CROSSTALK

- 70db at 1kHz: adjacent Input.
- 70db at 1kHz: Input to Output.

### MAXIMUM VOLTAGE GAIN (INPUT GAIN "-60")

- |        |                                  |
|--------|----------------------------------|
| PGM    | 74dB: MIC IN to PGM OUT.         |
|        | 24dB: TAPE IN to PGM OUT.        |
|        | 34dB: ECHO RETURN to PGM OUT.    |
|        | 14dB: PGM SUB IN to PGM OUT.     |
| STEREO | 74dB: MIC IN to STEREO OUT.      |
|        | 24dB: TAPE IN to STEREO OUT.     |
|        | 34dB: ECHO RETURN to STEREO OUT. |

- |             |                               |
|-------------|-------------------------------|
| ECHO<br>C/R | 70dB: MIC IN to ECHO SEND.    |
|             | 74dB: MIC IN to C/R OUT.      |
| STUDIO      | 24dB: 2 TRK IN to C/R OUT.    |
|             | 74dB: MIC IN to STUDIO OUT.   |
|             | 24dB: 2 TRK IN to STUDIO OUT. |

### CHANNEL EQUALIZATION

± 15 dB maximum

HIGH: from 2k to 20kHz PEAKING. MID: from 0.35k to 5kHz PEAKING. LOW: from 50 to 700 Hz PEAKING.

HIGH PASS FILTER - 12dB/octave cut off below 80Hz.

OSCILLATOR Switchable sine wave 100Hz, 1kHz, 10Hz

PHANTOM POWER 48V DC is applied to XLR type connector's 2 pin and 3 pin for powering condenser microphone.

DIMENSION (W x H x D) 37-1/2" x 11" x 30-1/4" (953 mm x 279.6 mm x 769 mm)

Hum and Noise are measured with a -6dB/octave filter at 12.47kHz; equivalent to a 20 kHz filter with infinite dB/octave attenuation.

\*0dB is referenced to 0.775V RMS.

• Sensitivity is the lowest level that will produce an output of -10dB (245mV), or the nominal output level when the unit is set to maximum gain.

• All specifications subject to change without notice.

The specs speak for themselves. But they can't tell you how natural, logical and easy the RM1608 is to work. All the controls and switches are logically arranged to help you get the job done quickly and accurately.

And in the tradition of Yamaha's sound reinforcement mixers, the RM1608 sets new standards of reliability as well as ease of operation. For complete information, write: Yamaha International Corporation, P.O. Box 6600, Buena Park, CA 90622. In Canada, Yamaha Canada Music Ltd., 135 Milner Ave., Scarborough, Ont. M1S 3R1.



MBS Executives & Staff	F-42
National Black Network	F-44
NBC Executives & Staff	F-45
Public Broadcasting Service	F-51
RKO Radio	F-49
Sheridan	F-50
Spanish International Network	F-51
TVS Television Network	F-51
UPI	F-49
Robert Wold Co. Inc.	F-51
Regional Radio	F-54
Regional TV	F-53
Satellite	E-3
News Directors, Radio-TV Assn.	I-47
News programing	F-77
News Services, Radio and TV	F-58
Newspaper Ownership of Stations	A-52
Newspapers using Cable	D-317
New Technologies	A-6
Nielsen, A.C. Co.	F-15

**O**

Ogilvy & Mather	G-5
Operators, Multiple Systems	D-296
Owners and Operators, Satellite	E-1
Ownership, Group Stations	A-35
Ownership, Newspaper	A-52

**P**

Panasonic Video Systems	H-32
Paramount Television	F-13
Pay Cable Services	E-8
Pay TV	C-75
PBS (Public Broadcasting Service)	F-51
Pioneer Communications of America	H-33
Placement Services	I-43
Press Services	F-58
Processing Labs, TV	F-1
Producers, International	F-21
Producers, TV Commercials	F-1
Product Guide	H-57
Production, Radio	F-1
Production, Television	F-1
Production Units, Mobile	H-51
Professional Societies	I-48
Program Distributors, Radio	F-1
Program Distributors, TV	F-1
Program Producers, International	F-21
Program Producers, Radio	F-1
Program Producers, TV	F-1
Program Services, Cable	E-7
Programers and Networks, Satellite	E-3
Programing, Radio Formats	F-61
Promotion Consultants	I-8
Promotion Films	F-1
Promotion Services	I-41
PTL Television	E-5
Public Broadcasting Service	F-51
Public Relations Services	I-41

**R**

Radio Advertising Bureau	I-46
--------------------------	------

Assignments of FM Stations, U.S.	B-388
Attorneys	I-27
Audience	G-16
Bermuda Stations	B-314
Call Letters AM	B-331
Call Letters FM	B-341
Canadian AM Call Letters	B-351
Canadian AM-FM Stations	B-294
Canadian FM Call Letters	B-352
Caribbean Stations	B-314

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Commerical Producers	F-1
Correspondents	I-56
Country & Western Programing.	F-64
Directory, Canadian	B-294
Directory, U.S.	B-1
Equipment Manufacturers	H-1
Formats	F-61
Frequencies, AM	B-353
Frequencies, FM	B-376
Group Ownership	A-35
International Stations in the U.S.	B-316
Jingle Producers	F-1
Mexican Stations	B-312
Networks, Regional	F-53
Newspaper Ownership	A-52
News Services	F-58
Pioneers Library	I-50
Program Distributors	F-1
Program Producers	F-1
Programing Formats	F-61
Representatives	G-7
Station Authorization- 1955-1981	H-55
Stations on Air	A-2
Radio Advertising Bureau	I-46
Radio by county	B-317
Radio Free Europe	B-317
Radio Liberty	B-317

Radio Markets	B-317
Radio-TV & Telecommunications Commission of Canada	A-35
Radio-TV Correspondents Assn.	I-52
Radio-TV Galleries of Congress	I-56
Radio-TV News Directors Assn.	I-47
Radiodiffusion Mutuelle Ltee.	F-53
Ranking of TV markets	C-201
Rating Services	I-17
RCA Corp. Executives, Staff & Divisions	H-34
Service Co.	H-34
Recording Services	F-1
Regional Radio Networks, Groups	F-54
Regional TV Networks	-53
Representatives, Canadian	G-15
Representatives of Stations, U.S.	G-7
Resale and Common Carrier, Satellite	E-2
Research Services, Radio-TV	I-17
Robert Wold Co. Inc.	F-51
Rock programing	F-78

**S**

Sales Consultants	I-8
Sanyo Electric Inc.	H-36
Sales of Stations	A-33, C-103
Satellite Master Antenna Systems	A-7
Satellites	A-6, E-1
Direct Broadcast Owners, Operators	E-1
Programers, Networks	E-3
Resale, Common Carriers	E-2
Schools, Radio & TV	I-60
Scientific-Atlanta Inc.	H-38
Senate Committee on Commerce Services	A-33
Buying/Planning	G-7
Employment	I-43
Frequency Measuring	H-47
Rating & Research	I-17
Sheridan Broadcasting Network	F-50
Short Course in Broadcasting	A-2
Short Course in Cable	D-3
Showtime	E-5
SMATV	A-7



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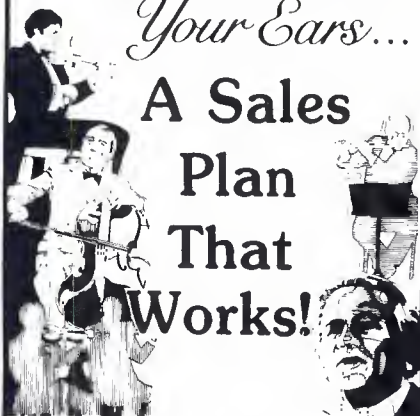
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Societies, Professional, Radio-TV... I-48  
Society of Professional Journalists  
(Sigma Delta Chi)..... I-53  
Sono-Mag Corp..... H-39  
Sony Corp. of America..... H-39  
Spanish Programing..... F-81, F-95  
Spanish Stations, TV..... C-75  
Sports Network (Hughes)..... E-4, F-51  
SSC&B..... G-6  
Stainless Inc..... H-34  
State Broadcasters Associations... I-53  
State Cable Assn..... I-54  
State Cable Regulatory Agencies. A-35  
Station Applications..... A-32  
Station Applications Pending, TV.. C-86  
Station Brokers..... I-1

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Station, Crossownership by..... A-59  
Station Financing..... I-14  
Station Transfers, TV..... C-103  
Stations, Number..... A-2  
Subscription TV..... A-6, C-75  
Subscription Television Assn..... I-53  
Superstations..... E-6  
Suppliers & Services..... H-1  
Supreme Court..... A-33  
Surveys & Market Research..... I-17

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**T**

Talent Agents..... I-42  
Talk programing..... F-81  
Technical Consultants..... I-20  
Teletext..... A-7, H-48  
Television  
ADI Markets..... C-126  
Advertising Bureau..... I-46  
Allocations..... C-83  
Applications Pending..... C-86  
Assignments..... C-83  
Attorneys..... I-27  
Audience..... G-16  
Bureau of Advertising..... I-46  
Business Films..... F-1  
Call Letters..... C-76  
Channel Assignments..... C-86  
Channels..... C-79  
Closed Circuit..... F-27  
Commercial Producers..... F-1  
Correspondents..... I-56  
Dimensions..... A-2  
Directory, Canadian..... C-64  
Directory, U.S..... C-1

Equipment Manufacturers..... H-1  
Group Ownership..... A-35  
High-definition..... A-7  
Information Office..... I-47  
Instructional Television Fixed Service  
(ITFS)..... A-7  
International..... B-395  
Low Power..... A-6, C-72  
Markets, by ADI..... C-126  
Market Demographics. C-201, C-204  
Market Ranking..... C-201  
Network delivery, by market... C-205  
Networks, Regional..... F-453  
Newspaper Ownership..... A-52  
News Services..... F-58  
Number of Stations..... A-2  
Processing Labs..... F-1  
Program Distributors (TV)..... F-1  
Program Production Services  
(TV)..... F-1  
Promotion Films..... F-1  
Regional Networks..... F-53  
Station Sales..... C-103  
Transfers of Ownership..... C-103  
Television Bureau of Advertising... I-46  
Television Information Office..... I-47  
Television Program Executives  
National Assoc. of..... I-45  
3M Co..... H-42  
Thompson, J. Walter..... G-6  
Time-Life Television..... F-18  
Top-40 programing..... F-82  
Top-50 MSO's..... D-320  
Trade Assns, & Professional  
Groups..... I-48  
Transfers of TV ownership..... C-103  
Transmitter & Equipment Mfrs..... H-1  
Trinity Broadcasting Network (TBN). E-5  
Turner Broadcasting System..... E-5  
20th Century-Fox Television..... F-18

**U**

Unions & Labor Groups..... I-55  
United Artists..... F-18  
UPI..... F-49  
USA Network..... E-5  
U.S. Govt. Agencies..... A-33

**V**

Viacom International..... F-19  
Videotext..... A-7, H-48  
Voice of America..... B-316

**W**

Ward-Beck System Ltd..... H-43  
Warner Amex  
Satellite Entertainment..... E-5  
Warner Bros. Television..... F-20  
Wold, Robert, Co..... F-51  
World Radio & Television..... B-395  
World Tower Co..... H-44

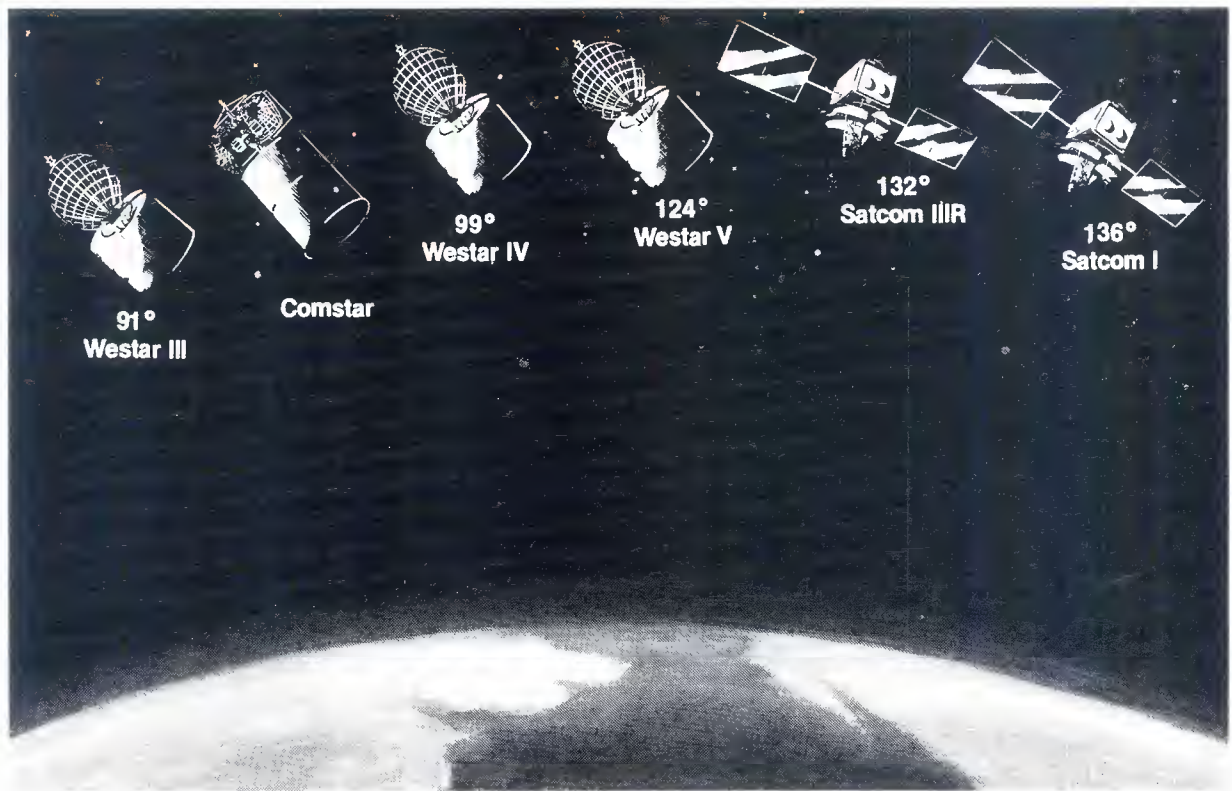
**Y**

Young & Rubicam..... G-7

**Z**

Zenith Radio Corp..... H-44

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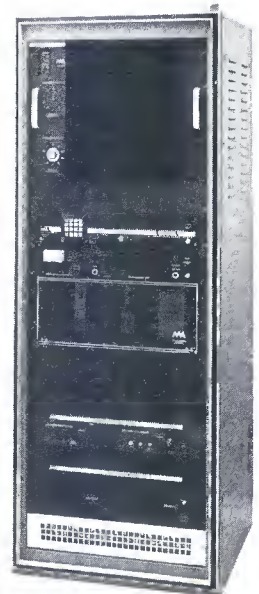


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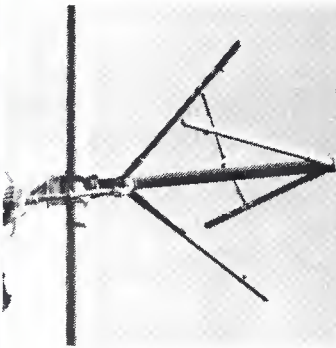


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## Index to Advertisers

### Equipment

Allied Tower Co. . . . . H back divider  
 Ampex Corp. . . . . H-3  
 Andrew Corporation. . . . . H-5  
 Anixter Bros. Inc. . . . . D back divider  
 Belar Electronics. . . . . H-64  
 Broadcast Services Co. . . . . H-59  
 Broadcast Supply West. . . . . H-63  
 Cablewave Systems. . . . . I front divider  
 Camera Mart Inc. . . . . H-8  
 CECO Communications. . . . . H-69  
 Cetec Antennas. . . . . xiv  
 Cetec Vega. . . . . H-9  
 Comark. . . . . C back divider  
 Comrex Corp. . . . . H-10  
 Continental Electronics. . . . . H front divider  
 Control Technology Inc. . . . . H-58  
 Delta Electronics. . . . . H-11  
 Dolby Labs. . . . . xv  
 EEV Inc. . . . . H-17  
 EG&G Electro Optics. . . . . H-70  
 Electro Impulse Inc. . . . . H-68  
 Fidelipac. . . . . iii  
 Fujinon Optical Inc. . . . . H-13  
 Graham-Patten Systems Inc. . . . . H-19  
 Harris Corp. . . . . H-20  
 H.M. Holzberg Associates Inc. . . . . H-57  
 International Tapetronics Corp. . . . . H-22, H-23  
 Johnson Electronics. . . . . H-62  
 JVC Co. of America. . . . . C front divider  
 Landy Assoc. . . . . H-61  
 LPB Inc. . . . . H-60  
 Marcom. . . . . H-62  
 Marti Electronics Inc. . . . . H-24  
 Microprobe Electronics Inc. . . . . H-28  
 Midwest Corp. . . . . vii  
 Modulation Assoc. . . . . xiii  
 Moseley Associates Inc. . . . . H-26, H-27  
 Fred A. Nudd Corp. . . . . H-32  
 Panasonic Audio-Video Systems . . . . . H-15, H-30, H-31  
 Pinzone Communications Products Inc. . . . . third cover  
 Potomac Instruments. . . . . H-66, H-67  
 Radio Tower Co. . . . . H-34  
 RCA Broadcast Systems. . . . . fourth cover  
 Reach Inc. . . . . H-35  
 Shallco Inc. . . . . H-58  
 Sono-Mag Corp. . . . . H-38  
 Stainless Inc. . . . . H-37  
 Stanton Magnetics Inc. . . . . H-39  
 Tennaplex Systems Ltd. . . . . H-41  
 Thomson-CSF. . . . . xvii  
 Turner Broadcasting System. . . . . H-51  
 Utility Tower Co. . . . . B front divider  
 Vacuum Tube Industries Inc. . . . . H-71  
 Ward-Beck Systems Ltd. . . . . v  
 Western Wireless Works. . . . . H-64  
 Wiltronix Inc. . . . . H-68  
 Yamaha. . . . . ix, x

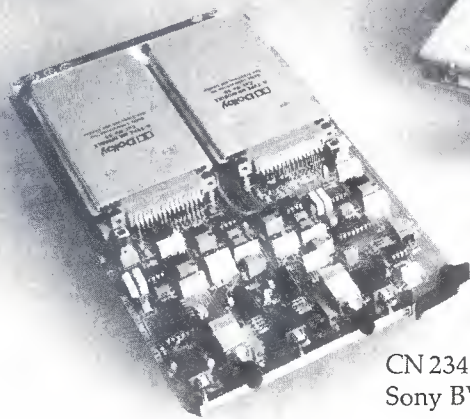
### General

Administrative Broadcasting Consultants . . . . . I-21  
 Alvin H. Andrus & Associates. . . . . I-21  
 Atlantic Research Corp. . . . . I-21  
 Becker Communications Associates. . . . . I-9  
 Blackburn & Co. Inc. . . . . second cover  
 Warren L. Braun  
   Consulting Engineers. . . . . I-21  
 Broadcast Data Service. . . . . I-21  
 Broadcast Investment Analysts. . . . . I-9  
 Broadcast Properties West B-14, B-29, B-35, B-42, B-167, B-212, B-275, I-1, I-21  
 John FX. Browne & Associates Inc. . . . . I-21  
 Chapman Associates. B back divider, I-2  
 Donald K. Clark Inc. . . . . I-1  
 Jules Cohen & Associates. . . . . I-21  
 Cohen & Dippell Consulting  
   Engineers. . . . . I-21  
 Lauren A. Colby. . . . . Ads throughout Radio section B, Television section C, I-25  
 Commercial Radio Monitoring Co. . . . . I-21  
 Communications Equity. . . . . I-3  
 Dataworld. . . . . I-21  
 EDM & Associates Inc. . . . . I-21  
 Larry D. Ellis & Associates. . . . . I-21  
 EMCEE Broadcast Products. . . . . I-21  
 Evans Associates. . . . . I-21  
 William A. Exline Inc. Ads throughout Radio section B, C-6, I-2, I-11  
 Firstmark Financial. . . . . D front divider  
 Norman Fischer & Associates Inc. Ads throughout Radio section B, C-6, I-2, I-11  
 Don Fitzpatrick & Assoc. . . . . I-43  
 Milton Q. Ford & Associates. . . . . I-3  
 Gammon, Camfield & Ninowski Media  
   Brokers Ltd. . . . . I back divider  
 Clifford Gill/Surety Realty Co. . . . . ii, xi, xii  
 W. John Grandy. . . . . ii, B-23, I-3  
 Charles Greene Assoc. . . . . I-5  
 Frederick G. Griffin. . . . . I-21  
 Hammett & Edison Inc. . . . . I-21  
 Hatfield & Dawson Consulting  
   Engineers. . . . . I-21  
 Ted Hepburn Co. . . . . I-6  
 Hogan-Feldman. . . . . ii, xii, Ads throughout Radio section B, I-3  
 Holt Corp., The. . . . . I-4  
 R.L. Hoover Consulting. . . . . I-21  
 Horton and Associates. . . . . I-4  
 International Technology Underwriters . . . . . I-16  
 George Jacobs & Associates. . . . . I-21  
 Jamar-Rice. . . . . I-4  
 Carl T. Jones Associates. . . . . I-21  
 Kalil & Co. . . . . I-4  
 Lester Kamin & Co. . . . . xviii  
 Bob Kimel's New England Media Inc. I-1  
 Tony Lease Tours. . . . . xii  
 Lechman, Colligan & Johnson. . . . . I-21

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Pam Lontos Inc. ....	B-6, B-7	Rosner Television Systems. ....	I-21	<b>Program Services</b>
Robert O. Mahlman, Inc. ....	I-5	Robert W. Rounsaville & Associates. .	I-7	Associated Press Broadcast
R.A. Marshall & Co. ....	I-5	Satellite Inc. ....	E-2	Services. .... spine
Reggie Martin & Associates. . .	B-51, I-5	Sellmeyer & Kramer Inc. ....	I-21	CnB Studios, The. ....
McClanathan & Associates Inc. ....	I-21	SESAC Inc. ....	F-30	Girard Video. ....
Minority Broadcast Investment Corp. I-14		Sherman & Beverage Associates Inc. I-21		Metro Weather Service. ....
Moffet, Larson & Johnson		Sherman & Brown Associates Inc. ....	I-8	Modern TV. ....
Consulting Engineers. ....	I-21	Silliman & Silliman. ....	I-21	Production EFX Library. ....
George Moore & Associates Inc. ....	I-6	W. Lee Simmons & Associates Inc. ....	I-21	RAI Corp. (Italian Radio TV System). .
Lawrence L. Morton, E.E.		Carl E. Smith. ....	I-21	SFM Media Corp. ....
& Associates. ....	I-21	Smith & Powstenko. ....	I-21	Signal Productions Inc. ....
John H. Mullaney. ....	I-21	Society Bank. ....	I-15	U.S. Chamber Comm./BizNet. F back
O.D. Page. ....	I-21	Southern Broadcast Service. ....	I-21	divider
Professional Cards/Services. ....	I-21	Steiger, Hurray & Associates Inc. ....	I-21	
Ward L. Quaal Co., The. ....	I-10	Storer Communications. ....	front cover	
Radio Engineering Co. ....	I-21	Syndicated Communications Inc.		
Radio Information Center B-26, B-56,		(Syncom). ....	I-14	
B-77, B-179, B-247, C-38		T.A. Associates. ....	I-17	
Radiotechniques. ....	I-21	Tait Appraisal Co. ....	iv, I-13	
Cecil L. Richards Inc. ....	I-8	Edwin Tornberg & Co. Inc. ....	I-8	
A.D. Ring & Associates. ....	I-21	Matthew J. Vlissides & Associates. .	I-21	

## Abbreviations Commonly Used in 1984 YEARBOOK

ACSN. . . . . Appalachian Community Service Network	cc. . . . . common carrier	Ger. . . . . German	mus. . . . . music	sec. . . . . secretary
actg. . . . . acting	cd. . . . . ciudad	govt. . . . . government	mw. . . . . medium wave	sep. . . . . separate
ADI Area of Dominant Influence	CEO. . . . . chief executive officer	HAAT. . . . . height above average terrain	N. . . . . night	sh. . . . . shares
admin. . . . . administrative	ch. . . . . channel	HBO. . . . . Home Box Office	na. . . . . not available	SH. . . . . specified hours
adv. . . . . advertising, advertisement	CH. . . . . critical hours	horiz. . . . . horizontal polarization	NAB. . . . . National Association of Broad- casters	SIN Spanish Interna- tional Network
AFC antenna for com- munications	chg. . . . . charge	hqtrs. . . . . headquarters	natl. . . . . national	SL. . . . . studio location
affil. . . . . affiliate	chmn. . . . . chairman	HTN Plus Home Theatre Network	NATPE. . . . . National Association of Television Program Executives	sls. . . . . sales
AFRTS. . . . . Armed Forces Radio Television Service	CBN. . . . . Christian Broadcasting Network	ind. . . . . independent	net. . . . . network	SMATV satellite master antenna television
alt. . . . . alternate	CNN Cable News Net- work	info. . . . . information	nwspr. . . . . newspaper	Sp. . . . . Spanish
ann. . . . . announced	coml. . . . . commercial	instal. . . . . installation	off. . . . . officer	spec. . . . . special
anncr. . . . . announcer	coord. . . . . coordinator	instrm. . . . . instrumental	opns. . . . . operations	ST. . . . . shares time
ant. . . . . antenna	CP. . . . . construction permit	It. . . . . Italian	own. . . . . owner	stn. . . . . station
AOR. . . . . album oriented rock	C-SPAN Cable Satellite Public Affairs Network	khz. . . . . kilohertz	per. . . . . personnel	STV. . . . . subscription television
AP. . . . . Associated Press Network	C&W country & western	kw. . . . . kilowatts	Pol. . . . . Polish	sub. . . . . subscriber
ARTS Alpha Repertory Television Service	D. . . . . day	loc. . . . . local	pop. . . . . population	supt. . . . . superintendent
assn. . . . . association	DA. . . . . directional antenna	LPTV low power televi- sion	PR. . . . . public relations	supvr. . . . . supervisor
assoc. . . . . associate	DBS direct broadcast satellite	LS. . . . . local sunset	pres. . . . . president	svcs. . . . . services
asst. . . . . assistant	dev. . . . . development	lstng. . . . . listening	prod. . . . . production, producer	sw. . . . . short wave
*. . . . . non-commercial	dir. . . . . director	lw. . . . . long wave	prog. . . . . program	t. . . . . terrain
atty. . . . . attorney	dup. . . . . duplicates	m. . . . . meters	progmg. . . . . programing	tech. . . . . technical
aur. . . . . aural	edit. . . . . editor	MBS. . . . . Mutual Broadcasting System	progrsv. . . . . progressive	TL. . . . . transmitter location
aux. . . . . auxiliary	educ. . . . . educational	MDS. . . . . Multipoint Distribution Service	prom. . . . . promotion	traf. . . . . traffic
bcstg. . . . . broadcasting	enr. . . . . engineer	mdse. . . . . merchandising	PSA. . . . . sunrise authority, Public Service Announcement	trans. . . . . translators
bcst. . . . . broadcast	engr. . . . . engineering	med. . . . . media	ptr. . . . . partner	treas. . . . . treasurer
bcstr. . . . . broadcaster	EPG Electronic Program Guide	mfg. . . . . manufacturing	pub affrs. . . . . public affairs	twp. . . . . township
bd. . . . . board	ERP. . . . . effective radiated power	mgng. . . . . managing	pub ser. . . . . public service	TWX. . . . . Teletypewriter Exchange
BET. . . . . Black Entertainment Network	ESPN. . . . . Entertainment & Sports Programming Network	mgr. . . . . manager	publ. . . . . publicity	U. . . . . unlimited
bdg. . . . . building	ETV. . . . . educational television	mgt. . . . . management	quad. . . . . quadrasonic	UHF. . . . . ultra high frequency
bor. . . . . borough	exec. . . . . executive	mhz. . . . . megahertz	RCL remote control location	UPI. . . . . United Press International
btfl. . . . . beautiful	FCC. . . . . Federal Communications Commission	mi. . . . . miles	rel. . . . . relations	vert. . . . . vertical polarization
bus. . . . . business	Fr. . . . . French	mktg. . . . . marketing	relg. . . . . religion	VHF. . . . . very high frequency
CARS Cable TV Relay Service	g. . . . . ground	mod. . . . . modification	rep. . . . . representative	vis. . . . . visual
CATV. . . . . community antenna television	gen. . . . . general	MOR. . . . . middle of the road	RFE. . . . . Radio Free Europe	VOA. . . . . Voice of America
		MSO. . . . . multiple system operator	rgnl. . . . . regional	VP. . . . . vice president
		MTV. . . . . Music Television	RL. . . . . Radio Liberty	w. . . . . watts
			rsch. . . . . research	wkly. . . . . weekly