

Hydra HD Quick Reference Guide

1. Welcome!

Thank you for using Entone's Hydra High Definition Multi-Television Video Gateway. This quick reference gives quick instruction for setting up and using Hydra. For detailed setup and usage instruction, please refer to the *Hydra HD User's Guide* and the *URC Plus User's Guide*.

2. Before You Begin

Check that the video output connector of the Hydra is properly connected to the input connector of the TV(s).

In your TV, select the input source that the Hydra is used.

"MATV OUTPUT" by default uses CATV channel ID 10, 23 and 39 for decoder 1, 2 and 3 respectively. "TV OUT" for decoder 1 by default uses CATV channel ID 10.

Check that you have connected Hydra "ETHERNET" to your network access device. For details of connecting Hydra to the network, please refer to your service provider.

If you have an external hard drive, connect the external hard drive using the eSATA cable. External hard drive requires separate power supply. Power up the external hard drive before powering up Hydra.

Software upgrade is required when you power up Hydra for the first time. Software upgrade may take 5-10 minutes. Do not power off during software upgrade.

3. Install Remote Control Batteries

Install the two AA batteries (provided) into the remote control.



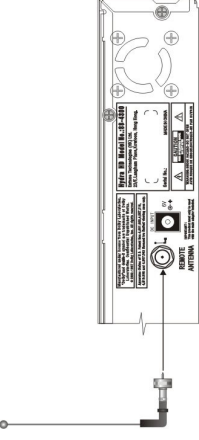
Important!! Use only new AA Alkaline batteries to insure consistent operation.

4. Understanding the Remote Control

This 3 mode Universal Remote Control can be programmed to control your Hydra and up to two other devices. The remotes can be set up by following these simple instructions.

5. Connect Antenna

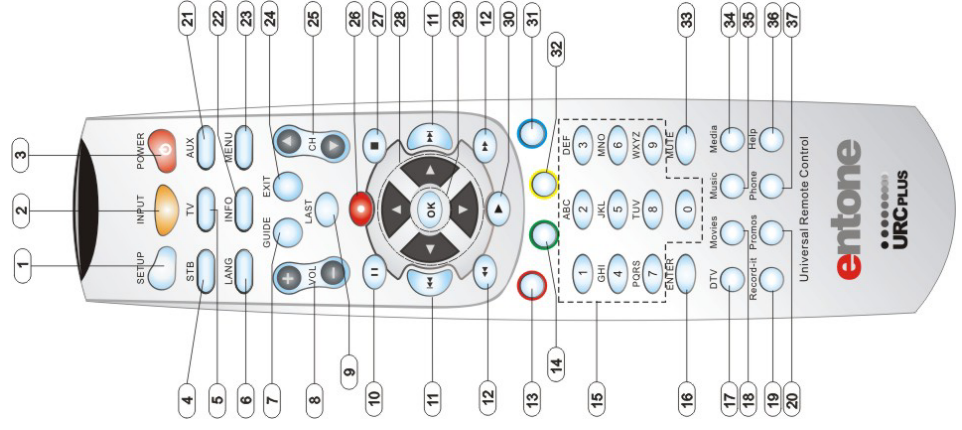
Connect the small antenna (provided) to the "Remote Antenna" connector on the back panel of the Hydra.



6. Using the Remote Control

The diagram and list provide a brief description of your remote control features. Entone provides this as a general guide to remote control usage. Functions may vary between different service providers.

Please refer to your service provider's manual for specific information on remote usage and features.

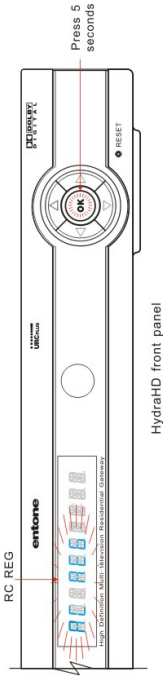


- | | |
|--|--|
| 1. SETUP Special Key reserved for remote programming functions. | 21. AUX Selects to control AUX device. |
| 2. INPUT Changes the current AV input of the selected device. | 22. INFO Displays on-screen information about the current television program. |
| 3. POWER Switches the power on/off for the currently selected device. | 23. MENU Displays the on-screen menu. |
| 4. STB Puts remote control in STB mode. | 24. EXIT Exits the current menu item. |
| 5. TV Selects to control TV. | 25. CH UP/DOWN Changes channel up or down. |
| 6. LANG Toggles closed captioning on or off on decoder 1. | 26. RECORD Records live channel. |
| 7. GUIDE Displays electronic program guide. | 27. STOP Stop button for VOD or live channel. |
| 8. VOL+/- Raises or lowers volume of the currently selected device. | 28. ARROW KEYS Navigates right, left, up, down in the on-screen guide. |
| 9. LAST Changes channel to the most recently viewed channel. | 29. OK Executes the currently selected menu option. |
| 10. PAUSE Pause button for VOD or live channel. | 30. PLAY Play button for VOD or live channel. |
| 11. CHAPTER Goes to previous or next chapter for VOD. | 31. BLUE Reserved or future use. |
| 12. FAST REV/FWD Starts fast reverse or fast forward for VOD or live channel. | 32. YELLOW Reserved for future use. |
| 13. RED Reserved for future use. | 33. MUTE Turns the volume of the currently selected device off. |
| 14. GREEN Reserved for future use. | 34. Media Displays the web menu. |
| 15. NUMBER KEYS Allows direct access to specific channels and menu items. | 35. Music Displays available music channels. |
| 16. ENTER Reserved for future use. | 36. Help Displays the help menu. |
| 17. DTV Returns to live programming. | 37. Phone Displays the Caller ID menu. |
| 18. Movies Display the VOD menu. | |
| 19. Record-it Displays the digital recorder menu. | |
| 20. Promos Displays the promotion menu. | |

7. Programming Remotes For Use With Hydra

First, you must program your remotes for use with your Hydra. The Hydra comes with 3 URC remotes. Each remote can be programmed for use with a different TV/Room. (Refer to the *Hydra HD User's Guide* for more information on in-home configurations.)

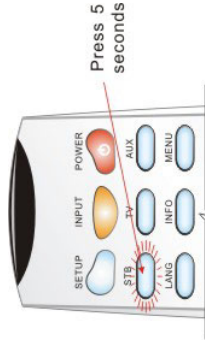
- 1 Press and hold the "OK" button on the Hydra front panel for about 5 seconds. When the "OK" button is released, the Hydra front panel Standby/On LED blinks twice (alternates red and green), then stays lit red to indicate that the Hydra is now in remote registration mode.



- 2 Identify the remote control, which is labeled with a number 1, 2, or 3 on the battery cover plate on the bottom of the remote, as shown below:



- 3 Press and hold the "STB" button on the remote control for about 4 to 5 seconds. The "STB" button backlight LED will light to indicate that the remote control is in registration mode.



- 5 Use the number keys to send the registration event:
 - Press "1" to send the "Register remote control to Decoder 1" event for Remote #1.
 - Press "2" to send the "Register remote control to Decoder 2" event for Remote #2.
 - Press "3" to send the "Register remote control to Decoder 3" event for Remote #3.

- ⑥ If you press a key other than "0", "1", "2", or "3", or if you do not press a button within about 10 seconds, the STB button backlight LED will turn off, and the remote control registration process terminates.

After you enter a registration event, the "STB" button backlight LED on the remote control and the Hydra front panel LED will blink twice to indicate that the registration process was successful.

- ⑦ Repeat the steps above for each remote control. You can register at most 3 remote controls for each decoder. Each remote control can only be registered for one decoder.

8. Manually Program Additional Devices

Perform the following steps to program the TV and AUX device:

- ① Locate the device code for your desired device in the device code table provided in the Appendix. If you could not find the device code for your device or it does not work after trying the listed device codes for your device brand, then you can go to the next section to try the auto-search procedures.
- ② Turn on your device and with media inserted (if applicable).
- ③ On the remote control, press a device mode key once (i.e., "TV" or "AUX"). NOTE: Use the "AUX" mode key to program control of VCR, DVD player, cable box, satellite set-top-box and audio device.
- ④ Press and hold the "SETUP" key until the selected mode key backlight blinks twice, then release "SETUP". The device mode key will light up.
- ⑤ Enter the four-digit device code for you device. If you perform this procedure correctly, the selected device mode key backlight will blink twice. NOTE: If you enter an invalid device code, the selected device mode key will fast blink 7 times. Device program mode will be terminated.
- ⑥ Aim the remote control at your device and press the "POWER" once. The device should be turn off. If it does not respond, repeat the above steps.

9. Auto-Scan (Program Additional Devices)

If your device does not respond to the remote control after trying all devices codes listed for you brand, or if your brand is not listed at all, try searching for your device code as follows:

- ① Power on the device and on the remote control, press the desired device key once. Then press and hold "SETUP" until the device key blinks twice, then release "SETUP".
- ② Press the "POWER" key once and aim your new remote at the device.
- ③ Press either the "CHANNEL UP" key or "CHANNEL DOWN" key to do device auto-scan.

- ④ In this search mode, the remote control will send IR codes from the library in 5 second intervals. The device key will be on and blink every 5 seconds while in the device scan mode.
- ⑤ If the device turns off, a working code has been found. Press "OK" once to lock in the code. The selected mode key will blink twice.
- ⑥ If all code sets of that device are exhausted in the search and the "OK" is not pressed, the selected device key will fast blink 7 times and the search mode will be terminated.

10. Hydra On-Screen User Menu

The Hydra User Menu is an on-screen setup menu to set up your Hydra features. You need to connect the TV properly before using the User Menu. Each decoder has its own User Menu. The User Menu provides the following setup features:

	Decoder 1	Decoder 2	Decoder 3
TV 1 Channel ID	CATV Channel ID	N/A	N/A
TV 2 Channel ID	CATV Channel ID	N/A	N/A
TV 3 Channel ID	CATV Channel ID	N/A	N/A
Resolution	1080i / 720p / 480p / 480i	N/A	N/A
Closed Captioning	Enable / Disable	N/A	N/A
Fan Speed	High / Middle / Low / Off	N/A	N/A
HPNA Mode	Coax / Phone	N/A	N/A
TiVo IR Key Code	MAGNAVOX 0224-B CENTURION 0092-B	N/A	N/A

To enter the User Menu:

- ① Use the corresponding remote control of the decoder.
- ② Press "INPUT" and then "MENU" in sequence within 1 second.

11. Captioning

Decoder 1 captioning is controlled by Hydra. Decoder 2 and 3 captioning is controlled by your TV. (Refer to your TV User's Guide for details on how to control your TV captioning.)

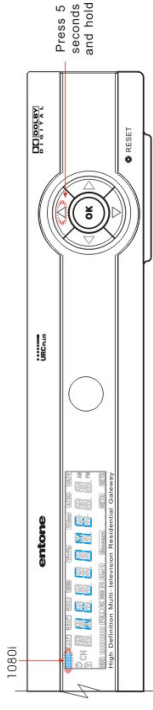
To turn captioning on or off on decoder 1 either:

- ① Press "LANG" button on the remote.
- ② Use the User Menu.

12. Setting HDMI/Component Resolution

You can use User Menu or the Hydra front panel UP arrow to set the resolution. To use Hydra front panel UP arrow to set resolution:

- 1 Press and hold the Hydra front panel "UP" arrow for 5 seconds.
- 2 Keep on pressing the "UP" arrow, the resolution indicator in the Hydra front panel display will illuminate in a round robin manner from "1080i - > 720p -> 480p -> 480i".
- 3 When your desired resolution is illuminated, release the "UP" arrow. Then, both the HDMI and Component outputs will be set to the selected resolution.



NOTE: If your TV does not display the video or error message is displayed after you have selected a new resolution, your TV may not support the selected resolution. Repeat the above procedures again to find a resolution supported by your TV.

NOTE: The S-Video, RCA Composite and RF outputs are always set to 480i and will not be affected by the HDMI and Component resolution setting.

Pioneer 2016 Fujitsu 0029
 RCA 2042 Pioneer 0035
 Sony 2108 2113
 Venturer 2011

Projection TV

Network DVD
 Hitachi 0132
 JVC 0130 0131
 Panasonic 0010
 Sony 0128
 Toshiba 0127

Portable DVD

Go Video 2124

TV

TV/DVD Combo

CyberHome 2083
 RCA 2055
 Toshiba 2135

TV/DVD/VCR Combo

Panasonic 2075 2076
 RCA 2077
 Sharp 2086
 Sylvania 2064 2078
 Toshiba 2093 2094

Digital TV

Zenith 0020

HDTV

Apex 0088
 Daewoo 0135
 Hitachi 0134
 Philips 0037
 RCA 0143
 Sony 0137

HDTV Projection TV

Sony 0037

LCD TV

Benq 0136
 ESA 0046
 NET-TV 0040
 Sharp 0138
 Sylvania 0046

Plasma TV

Viewsonic 0149
 Gateway 0038

Plasma TV Monitor

Acer 0041

Abex 0098
 Admiral 0001 0099
 Adventura 0100
 Aiko 0015
 Aiwa 0034
 Akai 0002
 Alleron 0044
 Amtron 0036
 Anam National 0003 0036
 AOC 0004 0005
 Apex 0074 0111 0119
 Audiovox 0036
 Bell & Howell 0001 0045
 Benq 0042
 Bradford 0036
 Broksonic 0114 0121
 Candle 0004 0007 0100
 Celebrity 0002
 Citizen 0004 0007
 0015 0036 0073 0097
 Colortyme 0004
 Concerto 0004
 Contec/Cony 0011 0012 0036
 Craig 0036
 Crown 0036 0053
 Curtis Mathes 0000 0004
 0014 0045 0073 0097
 CXC 0036
 Daewoo 0004 0005 0013
 0015 0016 0097 0106
 Dayton 0004 0097
 Dell 0141 0142 0146
 Dimensia 0000
 Electroband 0002
 Electrohome 0002 0003 0004
 0018 0021
 Emerson 0004 0011 0013
 0025 0031 0033 0036 0044
 0045 0080 0097 0102 0107
 Envision 0004
 Fisher 0043 0045 0047 0103
 Fujitsu 0044
 Funai 0036 0044
 Futuretech 0036
 GE 0000 0003 0004 0008 0021
 0048 0049 0063 0068 0070
 0144

Goldstar0004 0005 0011 Orion0023 0033 0107
 0018 0050 0090 0091 0097 Panasonic0003 0049 0053
 0096 0123 0140 0152
 Grunpy0036 0044 Philco0003 0004 0005 0007
 Hallmark0004 0011 0018 0053 0056 0057
 Harvard0036 0059
 Hisense0112 Philips0003 0007 0011 0017
 Hitachi0004 0011 0012 0030 0018 0053 0056 0057 0059
 0051 0084 0085 0086 0102 0063 0095 0126 0129 0148
 0133 Philips Magnavox0148
 IMA0036 Pilot0000 0001 0002 0097
 Infinity0053 Pioneer0004 0085 0102
 Janell0100 Portland0004 0005 0015 0097
 JBL0053 Price Club0073
 JC Penney0000 0004 0005 Prima0113
 0007 0012 0021 0048 0049 Prism0049
 0058 0063 0068 0072 0073 Proscan0000 0008 0068
 0075 0097 0098 Proton0004 0011
 JCB0002 Quasar0003 0039
 Jensen0004 0049 0062 0069
 JVC0011 0012 0026 Radio Shack0000 0045
 0049 0054 0055 0080 0117 Radio Shack/Realistic0004
 0002 0004 0098
 Kenwood0004 0018 RCA0000 0003 0004 0005
 Kloss Novabeam0036 0056 0008 0018 0028 0052 0065
 0057 0100 0067 0068 0071 0076 0082
 KTV0036 0097 0102 0104 0106 0108 0115
 LG0005 0151
 Loewe0053 Realistic0000 0045
 Logik0001 Sampo0004 0097 0098 0120
 Luxman0004 Samsung0004 0005 0011
 LXI0000 0004 0045 0053 0014 0018 0019 0072 0073
 0058 0068 0075 0078 0094 0097 0098
 Magnavox0004 0007 0018 Sansui0023 0107 0122
 0053 0056 0057 0059 0060 Sanyo0045 0103
 0110 0147 Sanyo0004 0011 0033
 Majestic0001 Scott0036 0044
 Marantz0004 0051 0053 Sears0000 0004 0012 0018
 Megatron0004 0051 0044 0045 0058
 Memorex0001 0004 0005 0044 0045 0103 0105
 0022 0045 0047 0061 Sharp0004 0009 0011 0025
 MGA0004 0005 0018 0064 0077 0092 0097 0099
 0047 0061 0153
 Midland0049 0068 0097 0098 Signature0001
 Minut0048 Simpson0007
 Mitsubishi0004 0005 0018 Sony0002 0109
 0021 0032 0047 0061 Soundesign0004 0007
 Montgomery Ward0001 0036 0044
 Motorola0003 0099 Squareview0105
 MTC0004 0005 0073 SSS0036
 Multitech0036 Starlite0036
 NAD0004 0058 0075 0085 Starlite0036
 NEC0003 0004 0005 Starlite0036
 Nikko0004 0015 Supreme0100
 NTC0015 Supreme0002
 Onwa0036 Sylvania0004 0007 0018
 Optimus0085 Sylvania0004 0007 0018
 Optonica0064 0099 0027 0053 0056 0057 0059
 0060 0124 0145 0150

Craig	1035 1036 1044 1061	Motorola	1027 1042
Curtis Mathes	1026 1031	MTC	1035
1035 1040 1042		Multitech	1035 1047 1057 1061
Cybernex	1035	NEC ..	1031 1032 1033 1040 1081
Daewoo	1037 1039	Nikko	1036
1047 1048 1085		Noblex	1035
DBX	1031 1032	Olympus	1042
Dimensia	1026	Optimus	1027 1036
Dynatech	1047	Panasonic	1042 1072 1073
Electrohome	1036 1049	1079 1080 1082 1083	
Electroponic	1036	Pentax	1058
Emerson	1034 1036 1037	Pentax Research	1040
1042 1047 1049 1076 1097		Philco	1042 1062
Fisher	1033 1044	Phillips	1042 1062 1091
Fuji	1042 1084	Pilot	1036
Funai	1028 1047	Pioneer	1032 1058
Garrard	1047	Polaroid	1041
GE	1026 1035 1042 1069	Portland	1039
Go Video	1043 1045 1088 1092	Proscan	1026
Goldstar	1031 1036 1040	Protec	1061
Gradiente	1047	Pulsar	1077
Harley Davidson	1047	Quarter	1033
Harman Kardon	1031	Quartz	1033
Harwood	1061	Quasar	1042 1067 1068
Headquarter	1033	Radio Shack	1027 1036
Hi-Q	1044	Radio Shack/Realistic	1033
Hitachi	1038 1058 1081	1035 1036 1042 1044 1047	
Instant Replay	1042	1049	
JC Penney	1031 1032 1033	Radix	1036
1034 1035 1036 1042 1058		Randex	1036
1061 1062		RCA	1026 1035 1042
JCL	1042	1046 1058 1065 1066 1086	
Jensen	1058 1081	1094	
JVC	1030 1031 1032	Realistic	1027 1033 1035
1033 1040 1081 1093		1036 1037 1042 1044 1047	
Kenwood	1031 1032	1049	
1033 1040 1081		Ricoh	1090
KLH	1061	Runco	1077
Kodak	1036 1042	Samsung	1035 1037 1054
LG	1036	1057 1070 1075 1095	
Lloyd's	1047	Sanky	1027 1077
Logik	1061	Sansui	1032 1081
LXI	1036	Sanyo	1033 1035 1044 1096
Magnavox	1042 1062 1077	Scott	1034 1037
Magnin	1036	Sears	1033 1036 1042
Marantz	1031 1032 1033	1044 1058	
1040 1042 1062		Sharp	1027 1039 1049 1055
Marta	1036	Shintom	1061 1084
Matsushita	1042	Shogun	1035
MEI	1042	Signature	1027
Memorex	1027 1033 1035	Singer	1042 1061 1090
1036 1042 1044 1047 1077		Sony	1051 1074 1084
MGA	1049	STS	1042
MGN Technology	1035	Sylvania	1042 1047 1050
Midland	1057	1062 1064 1071	
Minolta	1058	Symphonic	1028 1047
Mitsubishi	1049 1058	Tandy	1033
Montgomery Ward	1027	Tashiko	1036

Tatung	1081	Philips	4009 4010 4011 4013
Teac	1047 1081	4017 4023 4028 4029 4030	
Technics	1042 1079	Pioneer	4031 4032
Teknika	1036 1042 1047	Proscan	4000 4001
TMK	1035	RCA	4005 4041
Toshiba	1037 1052 1053 1056	4043 4045 4048	
1058 1059 1063		Realistic	4007
Totevision	1035 1036	Regal	4020 4033 4047
Unitech	1035	Regency	4015
Vector Research	1031	Rembrandt	4001
1032 1037		Samsung	4032
Victor	1032	Scientific Atlanta	4004 4034
Video Concepts	1031	4035 4036 4049	
1032 1037		Signal	4016
Videosonic	1035	Signature	4001
Wards	1027 1035	Sony	4050
1036 1037 1042 1044 1047		Sprucer	4045
1049 1058 1061		Standard Component	4037
White Westinghouse	1028	4038	
XR-1000	1042 1047 1061	Starcom	4016 4046
Yamaha	1031 1032	Stargate	4016
1033 1040 1081		Starquest	4016
Zenith	1029 1060 1077 1084	TIME WARNER	4055
1089 1090		Tocom	4002 4021

Satellite Receiver/DVR Combo

ABC	4000 4001	Unika	4006 4007
4002 4004 4046		United Cable	4046
Adelphia	4049	Universal	4006 4007 4008
Antronix	4006 4007	View Star	4014 4023 4025
Archer	4007 4008	Zenith	4044
Cable Vision	4050	Panasonic	3054
Cabletenna	4006	Mitsubishi	3043
Cableview	4005	Philips	3039
Colour Voice	4010 4011	Pioneer	3053
Comcast	4051 4052	Sony	3042
Comtronics	4012	DISH Network	3061
Contec	4014	Hughes	3058
COX	4053	Philips	3058 3063
Eastern	4015	RCA	3058 3059
GC Electronics	4007	Samsung	3058
GE	4000 4001	Sony	3060 3062
Gemini	4016 4017	Zenith	3064
General Instrument	4051		
General Instruments	4001 4048		
Hamlin	4018 4019 4020 4026		
4033 4039 4047			
Hitachi	4001		
Jerrold	4001 4016 4021 4022		
4046 4048			
Magnavox	4023		
Memorex	4024		
Motorola	4052 4053 4054		
Movie Time	4025		
NEC	4003		
NSC	4025		
Oak	4014 4027		
Panasonic	4042 4045		

Satellite

Alphastar	3023
Chaparral	3002 3003
DIRECTV	3069
DISH Network	3000 3066
3067 3068	
Dishnet	3022
Drake	3004 3005
EchoStar	3030
GE	3001 3016 3033 3034
3056 3065	
General Instruments	3006
3007 3008	
Hitachi	3026 3027

Hughes 3036 3069 Sharp 5063 5064 5065 5066
 Hughes Network 3069 Sherwood 5045
 Hughes Network Systems 3031 Sony 5054
 3069 Teac 5053
 JVC 3025 Technic 5035
 Mitsubishi 3045 Technics 5035
 Panasonic 3019 3049 3052 Toshiba 5061
 Philips 3028 3057 Victor 5058
 Primestar 3020 Yamaha 5041
 Proscan 3001 3016

DVR

3033 3034 3065 RePlay 5062
 RCA .. 3001 3016 3024 3033 3034
 3040 3055 3065 3070

Home Theater in a Box

Realistic 3009 BOSE 5071
 Samsung 3044 3046 JBL 5072
 Sony 3017 3035 3037 3038 3071 Koss 5074
 STS 3032 Onkyo 5075
 STS1 3010 Philips 5077
 STS3 3012 Pioneer 5078
 STS4 3013 RCA 5079
 Toshiba 3014 3018 3050 Sony 5081
 Uniden 3015 3029 Venturer 5082
 Zenith 3051

Satellite Receiver/Recorder

Philips 3048 Aiwa 5000 5001 5002 5004
 RCA 3041 5005 5006 BOSE 5007 5071
 Sony 3047 Carver 5000

Receiver/Tuner

Denon 5008 Harman Kardon 5000 5009
 JBL 5009 JVC 5010
 Kenwood 5011 5012 Linn 5000
 Maganvox 5000 Marantz 5000
 Onkyo 5018 Philips 5000
 Pioneer 5021 5022 RCA 5024 5025 5026
 Sansui 5000 Sherwood 5027
 Sony 5017 5028 5029 5030
 5031 5032 5033 5080 5081
 Technics 5016
 Wards 5000 5021
 Yamaha 5003 5014 5015 5021

Tuner/CD Combo

BOSE 5007

Amplifier

Aiwa 5037 5054 Philips 3048
 Carver 5036 RCA 3041
 Citizen 5060 Sony 3047
 Denon 5048
 Fisher 5036
 GE 5062
 Goldstar 5050 5055
 Harmon/Kardon 5047
 Hitachi 5068
 JVC 5052 5058
 Kenwood 5049 5056
 Magnavox 5069
 Marantz 5034
 Nakamichi 5046
 NEC 5067
 Onkyo 5039 5040 5051
 Optimus 5042
 Panasonic 5035
 Pioneer 5043 5044 5057 5070
 Proton 5069
 Quasar 5035
 RCA 5059