

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* in <http://www.entone.com>.

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.



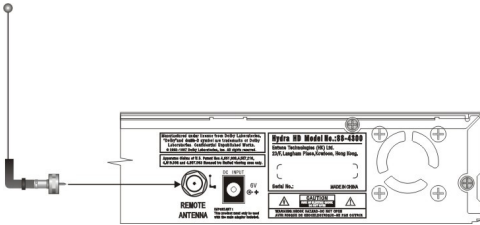
Important!! Use only new AA Alkaline batteries to insure consistent operation.

4. Understanding the Remote Control

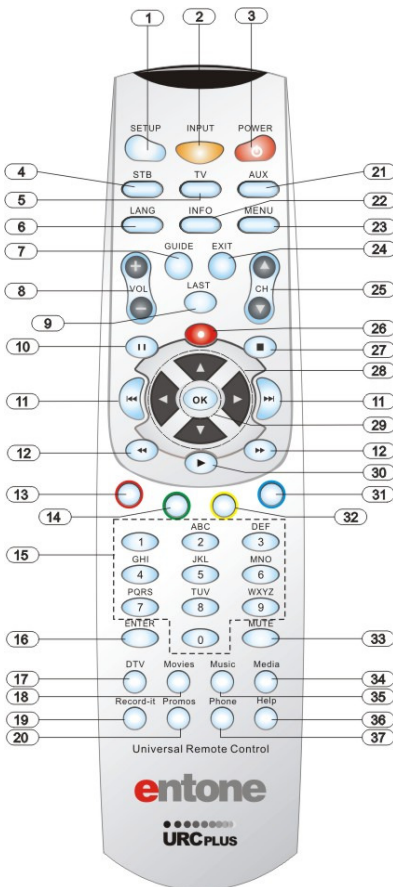
This 3 mode Universal Remote Control can be programmed to control your Hydra and up to two other devices. The remotes can be set up by following these simple instructions.

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.

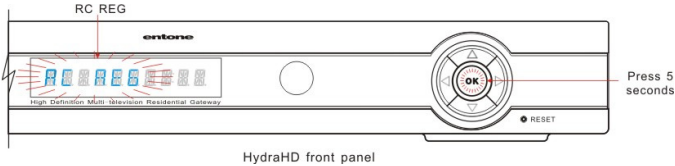
Please refer to your service provider's manual for specific information on remote usage and features.

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

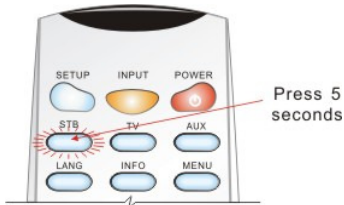
- 1 Press and hold the "OK" button on the Hydra front panel for approx. 5 seconds. When releasing the "OK" button, the Hydra front panel will display "RC REG". The Hydra is now in remote registration mode.



- 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.



- 4 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.
- Press "0" to set remote control to IR mode only. The remote control will not send any RF signal.

- 5 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 will blink twice and the Hydra front panel will display "RC REG Dx" to indicate that the registration process was successful.

- ⑥ 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.

NOTE: Auto-Scan does not scan device codes from 4056 to 4071. For decode codes from 4056 to 4071, you have to enter the device code manually.

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, Toshiba TSR-202 Hitachi HDS-100R	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.

NOTE: The features available in User Menu may vary in different middleware. Some of the features can also be set up through the user menu of the middleware.

NOTE: Reboot of Hydra is required for the new channel ID change to take effect.

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:

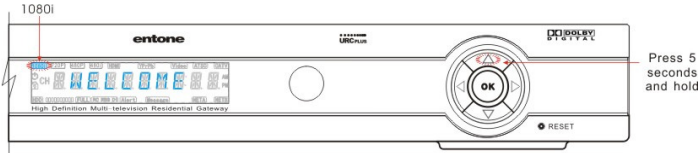
- ① Press "LANG" button on the remote.
- ② Use the User Menu.

NOTE: Control of captioning may vary for different service providers. For detailed usage of captioning, please refer to the service provider.

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.

Appendix - Device Codes

Your Universal Remote Control (URC) can control many brands and models of television, VCR, DVD and other types of audio-visual equipment. The following pages list device codes for many categories and brands of equipment. Many brands list more than one code, and you may need to test several codes to find the best match for your equipment. Your equipment may be supported even if your brand is not shown in the list below. If you cannot locate your brand, or none of the listed device codes works, then you may still use the auto-scan feature to try to locate a suitable device code. Instructions for using the auto-scan feature are located on page 5 of this guide.

DVD – DVD Player

Aiwa	2026 2131
Apex	2001 2056 2057 2095 2098
Audiovox	2132
Blaupunkt	2136
BOSE	2122 2130
Broksonic	2053 2072
Clarion	2100
Classic	2101
Daewoo	2058 2062 2137 2138
Denon	2040 2110 2133
Emerson	2059 2073
Fisher	2112 2134
GE	2041 2079 2118
Go Video	2046 2127 2129
GPX	2114
Harman Kardon	2125
Hitachi	2000 2027 2126
Irradio	2017
JVC	2047 2090 2096 2097 2115
Kenwood	2019 2039
Konka	2029
Lasonic	2081
Magnavox	2002 2018
Marantz	2034
Memorex	2003
Mintek	2004
Mitsubishi	2021 2030 2123
NAD	2059 2139
Nakamichi	2116
Nexxtech	2140
Norcent	2005 2117
Onkyo	2006
Oritron	2009
Panasonic	2066 2075 2076
Philips	2018 2032 2045 2051 2091 2109
Pioneer	2008
Polaroid	2007
Proscan	2010 2033 2118
Qwestar	2009

RCA	2010 2048 2063 2077 2099 2107 2118
Sampo	2119
Samsung	2012 2049 2074 2085 2102
Sansui	2071
Sanyo	2050 2120
Sharp	2013 2015 2044 2086
Sherwood	2121
Sony	2014 2020 2022 2065 2067 2068 2069 2070 2087 2103 2108 2113
Sylvania	2064 2078 2092
Techwood	2141
Toshiba	2023 2025 2037 2038 2054 2080 2084 2088 2093 2094
Yamaha	2028
Zenith	2052 2128

DVD - VCR Combo

Broksonic	2072
Daewoo	2062
Emerson	2073
Go Video	2046 2127 2129
Hitachi	2126
JVC	2047 2097
Panasonic	2066
Philips	2051
Polaroid	2007
RCA	2048
Samsung	2049 2074 2085
Sanyo	2050
Sony	2065 2067
Toshiba	2080 2084
Zenith	2052 2128

DVD - Home Theater

BOSE	2130
JBL	2043
Koss	2060
Onkyo	2024
Philips	2036
Pioneer	2016
RCA	2042

Sony2108 2113
 Venturer2011

DVD - Network DVD

Go Video2124

DVD - Portable DVD

CyberHome2083
 RCA2055
 Toshiba2135

DVD - TV/DVD Combo

Apex2095
 Broksonic2053
 RCA2063 2099
 Sansui2071
 Sylvania2092
 Toshiba2054

DVD - TV/DVD/VCR Combo

Panasonic2075 2076
 RCA2077
 Sharp2086
 Sylvania2064 2078
 Toshiba2093 2094

TV - Digital TV

Zenith0020

TV - HDTV

Apex0088
 Daewoo0135
 Hitachi0134
 Philips0037
 RCA0143
 Sony0137

TV - HDTV Projection TV

Sony0037

TV - LCD TV

Benq0136
 ESA0046
 NET-TV0040
 Sharp0138
 Sylvania0046

TV - Plasma TV

Viewsonic0149
 Gateway0038

TV - Plasma TV Monitor

Acer0041
 Fujitsu0029

Pioneer 0035

TV - Projection TV

Hitachi 0132
 JVC0130 0131
 Panasonic..... 0010
 Sony 0128
 Toshiba 0127

TV - TV

Abex 0098
 Admiral0001 0099
 Adventura 0100
 Aiko 0015
 Aiwa 0034
 Akai 0002
 Alleron 0044
 Amtron..... 0036
 Anam National0003 0036
 AOC0004 0005
 Apex0074 0111 0119
 Audiovox 0036
 Bell & Howell0001 0045
 Benq 0042
 Bradford 0036
 Broksonic.....0114 0121
 Candle0004 0007 0100
 Celebrity 0002
 Citizen0004 0007
 0015 0036 0073 0097
 Colortyme 0004
 Concerto 0004
 Contec/Cony..... 0011 0012 0036
 Craig 0036
 Crown0036 0053
 Curtis Mathes0000 0004
 0014 0045 0073 0097
 CXC 0036
 Daewoo0004 0005 0013
 0015 0016 0097 0106
 Daytron0004 0097
 Dell0141 0142 0146
 Dimensia 0000
 Electroband 0002
 Electrohome0002 0003 0004
 0018 0021
 Emerson0004 0011 0013
 0025 0031 0033 0036 0044 0045 0080
 0097 0102 0107
 Envision..... 0004
 Fisher0043 0045 0047 0103
 Fujitsu 0044
 Funai0036 0044
 Futuretech 0036
 GE0000 0003 0004 0008 0021
 0048 0049 0063 0068 0070 0144

Goldstar	0004 0005 0011	Philco	0003 0004 0005 0007
0018 0050 0090 0091 0097 0098		0011 0018 0053 0056 0057 0059	
Grunpy	0036 0044	Philips.....	0003 0007 0011 0017
Hallmark	0004	0018 0053 0056 0057 0059 0063 0095	
Harvard	0036	0126 0129 0148	
Hisense	0112	Philips Magnavox	0148
Hitachi.....	0004 0011 0012 0030	Pilot.....	0097
0051 0084 0085 0086 0102 0133		Pioneer.....	0004 0085 0102
IMA	0036	Portland.....	0004 0005 0015 0097
Infinity.....	0053	Price Club.....	0073
Janeil.....	0100	Prima.....	0113
JBL.....	0053	Prism.....	0049
JC Penney.....	0000 0004 0005	Proscan.....	0000 0008 0068
0007 0012 0021 0048 0049 0058 0063		Proton.....	0004 0011
0068 0072 0073 0075 0097 0098		Quasar.....	0003 0039
JCB	0002	0049 0062 0069	
Jensen	0004	Radio Shack.....	0000 0045
JVC	0011 0012 0026	Radio Shack/Realistic.....	0004
0049 0054 0055 0080 0117		0011 0036 0045 0064 0097 0098	
Kawasho	0002 0004	RCA.....	0000 0003 0004 0005
Kenwood.....	0004 0018	0008 0018 0028 0052 0065 0067 0068	
Kloss Novabeam	0036 0056	0071 0076 0082 0102 0104 0106 0108	
0057 0100		0115 0151	
KTV.....	0036 0097	Realistic.....	0000 0045
LG.....	0005	Sampo.....	0004 0097 0098 0120
Loewe	0053	Samsung.....	0004 0005 0011
Logik	0001	0014 0018 0019 0072 0073 0078 0094	
Luxman	0004	0097 0098	
LXI	0000 0004 0045 0053	Sansui.....	0023 0107 0122
0058 0068 0075		Sanyo.....	0045 0103
Magnavox.....	0004 0007 0018	Scotch.....	0004
0053 0056 0057 0059 0060 0110 0147		Scott.....	0004 0011 0033
Majestic.....	0001	0036 0044	
Marantz.....	0004 0051 0053	Sears.....	0000 0004 0012 0018
Megatron.....	0004 0051	0044 0045 0047 0055 0058 0068 0075	
Memorex.....	0001 0004 0005	0103 0105	
0022 0045		Sharp.....	0004 0009 0011 0025
MGA.....	0004 0005 0018 0021	0064 0077 0092 0097 0099 0153	
0047 0061		Signature.....	0001
Midland	0049 0068 0097 0098	Simpson.....	0007
Minutz	0048	Sony.....	0002 0109
Mitsubishi.....	0004 0005 0018	Soundesign.....	0004 0007
0021 0032 0047 0061		0036 0044	
Montgomery Ward.....	0001	Squareview.....	0105
Motorola.....	0003 0099	SSS.....	0036
MTC	0004 0005 0073	Starlite.....	0036
Multitech.....	0036	Supre-Macy.....	0100
NAD	0004 0058 0075 0085	Supreme.....	0002
NEC	0003 0004 0005	Sylvania.....	0004 0007 0018
Nikko.....	0004 0015	0027 0053 0056 0057 0059 0060 0124	
NTC.....	0015	0145 0150	
Onwa.....	0036	Symphonic.....	0024 0031 0036
Optimus.....	0085	0105	
Optonica.....	0064 0099	Tandy.....	0099
Orion.....	0023 0033 0107	Tatung.....	0003
Panasonic.....	0003 0049 0053	Technics.....	0049
0096 0123 0140 0152		Techwood.....	0004 0049

Teknika	0001 0004 0005
0007 0011 0012 0015 0036 0044 0060	
0073 0096 0097	
TMK	0004
Toshiba	0006 0045 0058
0073 0075 0079 0083 0087 0093 0101	
0116	
Totevision	0097
Universal	0048 0063
Victor	0055
Vidtech	0004 0005
Viking	0100
Wards	0000 0001 0004 0005
0018 0031 0044 0048 0053 0056 0057	
0059 0060 0063 0064	
White Westinghouse	0013
Yamaha	0004 0005 0018
Zenith	0001 0081 0089
0118 0125	

TV - TV/DVD Combo

Apex	0074
Broksonic	0114
RCA	0076 0115
Sansui	0122
Sylvania	0150
Toshiba	0116

TV - TV/DVD/VCR Combo

Panasonic	0123 0152
RCA	0151
Sharp	0153
Sylvania	0027 0124
Toshiba	0087 0101

TV - TV/VCR Combo

Broksonic	0121
GE	0070
Quasar	0062 0069
RCA	0028 0052
Samsung	0078
Sylvania	0145
Toshiba	0006
Zenith	0118

VCR - CD

Denon	1104
JVC	1099
Onkyo	1100
Pioneer	1101
RCA	1102 1106
Sony	1105
Yamaha	1103

VCR – Digital Network Recorder

Sony	1001
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VCR – DVD/VCR Combo

Broksonic	1078
Daewoo	1085
Emerson	1076
Go Video	1043 1045 1092
Hitachi	1038
JVC	1030 1093
Panasonic	1082
Philips	1091
Polaroid	1041
RCA	1094
Samsung	1054 1075 1095
Sanyo	1096
Sony	1051 1074
Toshiba	1052 1053
Zenith	1029 1089

VCR – DVR

DIRECTV	1000
Panasonic	1004
Philips	1002
RCA	1000
RePlay	1003
Tivo	1000

VCR – PVR

Tivo	1087
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VCR – TV/DVD/VCR Combo

Panasonic	1072 1073
RCA	1046
Sharp	1055
Sylvania	1050 1071
Toshiba	1056 1059

VCR – TV/VCR Combo

Broksonic	1098
GE	1069
Quasar	1067 1068
RCA	1065 1066
Samsung	1070
Sylvania	1064
Toshiba	1063
Zenith	1060

VCR - VCR

Admiral	1027
Adventura	1047
Aiko	1048
Aiwa	1047
Akai	1081 1084

American High.....	1042	Logik.....	1061
Asha.....	1035	LXI.....	1036
Audio Dynamics.....	1031 1032	Magnavox.....	1042 1062 1077
Audiovox.....	1036	Magnin.....	1036
Beaumarck.....	1034 1035	Marantz.....	1031 1032 1033
Bell & Howell.....	1033	1040 1042 1062	
Broksonic.....	1034 1078 1098	Marta.....	1036
Calix.....	1036	Matsushita.....	1042
Candle.....	1035 1036 1037	MEI.....	1042
1039 1040		Memorex.....	1027 1033 1035
Canon.....	1042	1036 1042 1044 1047 1077	
Carver.....	1062	MGA.....	1049
CCE.....	1048 1061	MGN Technology.....	1035
Citizen.....	1035 1036 1037 1039	Midland.....	1057
1040 1048		Minolta.....	1058
Colortyme.....	1031	Mitsubishi.....	1049 1058
Colt.....	1061	Montgomery Ward.....	1027
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	Pentex Research.....	1040
1042 1047 1049 1076 1097		Philco.....	1042 1062
Fisher.....	1033 1044	Philips.....	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 1049	
Instant Replay.....	1042	Radix.....	1036
JC Penney.....	1031 1032 1033	Randex.....	1036
1034 1035 1036 1042 1058 1061 1062		RCA.....	1026 1035 1042
JCL.....	1042	1046 1058 1065 1066 1086 1094	
Jensen.....	1058 1081	Realistic.....	1027 1033 1035
JVC.....	1030 1031 1032	1036 1037 1042 1044 1047 1049	
1033 1040 1081 1093		Ricoh.....	1090
Kenwood.....	1031 1032	Runco.....	1077
1033 1040 1081		Samsung.....	1035 1037 1054
KLH.....	1061	1057 1070 1075 1095	
Kodak.....	1036 1042	Sanky.....	1027 1077
LG.....	1036	Sansui.....	1032 1081
Lloyd's.....	1047	Sanyo.....	1033 1035 1044 1096

Scott.....	1034	1037
Sears.....	1033	1036 1042
1044	1058	
Sharp.....	1027	1039 1049 1055
Shintom.....	1061	1084
Shogun.....		1035
Signature.....		1027
Singer.....	1042	1061 1090
Sony.....	1051	1074 1084
STS.....		1042
Sylvania.....	1042	1047 1050
1062	1064	1071
Symphonic.....	1028	1047
Tandy.....		1033
Tashiko.....		1036
Tatung.....		1081
Teac.....	1047	1081
Technics.....	1042	1079
Teknika.....	1036	1042 1047
TMK.....		1035
Toshiba.....	1037	1052 1053 1056
1058	1059	1063
Totevision.....	1035	1036
Unitech.....		1035
Vector Research.....		1031
1032	1037	
Victor.....		1032
Video Concepts.....		1031
1032	1037	
Videosonic.....		1035
Wards.....	1027	1035
1036	1037	1042 1044 1047 1049 1058
1061		
White Westinghouse.....		1028
XR-1000.....	1042	1047 1061
Yamaha.....	1031	1032
1033	1040	1081
Zenith.....	1029	1060 1077 1084
1089	1090	

Cable Box

ABC.....	3000	3001
3002	3004	3046
Adelphia.....		3049
Antronix.....	3006	3007
Archer.....	3007	3008
Cable Vision.....		3050
Cabletenna.....		3006
Cableview.....		3005
Colour Voice.....	3010	3011
Comcast.....	3051	3052
Comtronics.....		3012
Contec.....		3014
COX.....		3053
Eastern.....		3015
GC Electronics.....		3007

GE.....	3000	3001
Gemini.....		3016 3017
General Instrument.....		3051
General Instruments.....	3001	3048
Hamlin.....	3018	3019 3020 3026
3033	3039	3047
Hitachi.....		3001
Jerrold.....	3001	3016 3021 3022
3046	3048	
Magnavox.....		3023
Memorex.....		3024
Motorola.....	3052	3053 3054
Movie Time.....		3025
NEC.....		3003
NSC.....		3025
Oak.....		3014 3027
Panasonic.....		3042 3045
Philips.....	3009	3010 3011 3013
3017	3023	3028 3029 3030
Pioneer.....		3031 3032
Proscan.....		3000 3001
RCA.....		3005 3041
3043	3045	3048
Realistic.....		3007
Regal.....	3020	3033 3047
Regency.....		3015
Rembrandt.....		3001
Samsung.....		3032
Scientific Atlanta.....	3004	3034
3035	3036	3049
Signal.....		3016
Signature.....		3001
Sony.....		3050
Sprucer.....		3045
Standard Component.....		3037
3038		
Starcom.....		3016 3046
Stargate.....		3016
Starquest.....		3016
TIME WARNER.....		3055
Tocom.....		3002 3021
Tusa.....		3016
TV86.....		3025
Unika.....		3006 3007
United Cable.....		3046
Universal.....	3006	3007 3008
View Star.....	3014	3023 3025
Zenith.....		3044

Satellite – HDTV Tuner

Panasonic.....		4054
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Satellite – Satellite-DVR

DIRECTV.....	4058	4059 4060 4062 4063
DISH Network.....		4061
Hughes.....		4058

Philips	4058 4063
RCA	4058 4059
Samsung	4058
Sony	4060 4062
Tivo	4058 4060 4063
Zenith	4064

Satellite – Satellite Receiver

Alphastar	4023
Chaparral	4002 4003
DIRECTV	
4035 4036 4038 4039 4043 4044 4045	
4049 4050 4051 4052 4056 4058 4069	
4070 4071	
DISH Network.....	4000 4066
4067 4068	
Dishnet.....	4022
Drake.....	4004 4005
Echostar.....	4030
GE.....	4001 4016 4033 4034
4056 4065	
General Instruments	4006
4007 4008	
Hitachi	4026 4027
Hughes.....	4036 4069
Hughes Network.....	4069
Hughes Network Systems	4031
4069	
Humax.....	4071
JVC	4025
Mitsubishi	4043 4045
Panasonic	4019 4049 4052
Philips	4028 4039 4057
Pioneer.....	4053
Primestar.....	4020
Proscan.....	4001 4016
4033 4034 4065	
RCA.....	4001 4016 4024 4033 4034
4040 4055 4065 4070	
Realistic	4009
Samsung.....	4044 4046
Sony.....	4017 4035
4037 4038 4042 4071	
STS.....	4032
STS1.....	4010
STS3.....	4012
STS4.....	4013
Toshiba	4014 4018 4050
Uniden.....	4015 4029
Zenith.....	4051

Satellite - Satellite Receiver/Recorder

Philips	4048
RCA	4041
Sony.....	4047

Audio - Amplifier

Aiwa	5037 5054
Carver	5036
Citizen	5060
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
Sharp.....	5063 5064 5065 5066
Sherwood	5045
Sony	5054
Teac	5053
Technic.....	5035
Technics.....	5035
Toshiba	5061
Victor.....	5058
Yamaha.....	5041

Audio - DVR

RePlay.....	5062
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Audio - Home Theater

BOSE	5071
JBL.....	5072
Koss	5074
Onkyo.....	5075
Philips.....	5077
Pioneer.....	5078
RCA.....	5079
Sony.....	5080 5081
Venturer	5082

Audio - Receiver/Tuner

Aiwa	5000 5001 5002 5004
5005 5006	
BOSE	5007 5071
Carver	5000
Denon.....	5008
Harman Kardon	5000 5009
JBL.....	5009

JVC5010
Kenwood5011 5012
Linn5000
Maganvox.....5000
Marantz5000
Onkyo.....5018
Philips5000
Pioneer.....5021 5022
RCA 5024 5025 5026
Sansui5000

Sherwood 5027
Sony 5017 5028 5029 5030
5031 5032 5033 5080 5081
Technics 5016
Wards5000 5021
Yamaha..... 5003 5014 5015 5021

Audio - Tuner/CD Combo

BOSE 5000

