

**entone<sup>TM</sup>**

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**Universal Remote Control**

**URC PLUS**

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User's Guide

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**P/N: HYDRA\_UG 1.0**

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# Chapter 1

## 1.1 Introduction

The Entone Universal Remote Control Plus (URC PLUS) is designed to work either on Radio Signals (RF) or InfraRed (IR). It can control Hydra Multi-Television Gateway using RF from another room where is not at direct sight distance from the Hydra. Or, it can use IR to control Amulet Video Receiver at direct sight distance. The URC PLUS can also be used to control other A/V devices such as TV, DVD player and audio equipment using IR.

The URC PLUS differs from the old URC on the followings :

- The old URC can only support old Hydra hardware. URC PLUS supports both the old Hydra and new Hydra hardware (with URC PLUS logo printed on the front panel).
- URC PLUS supports Amulet
- URC PLUS supports more A/V devices

## Loading Batteries

The URC PLUS comes with AA-size batteries, which need to be installed when you first receive your system. When you replace old batteries, you should replace all of the batteries. Use batteries of the same kind, for example alkaline or carbon zinc, and do not mix batteries of different kinds. Alkaline batteries last longer than carbon zinc.

**Warning:** Mixing old and new batteries or different types of batteries poses a fire hazard.

To load batteries to URC PLUS:

1. Press down on the battery cover's top latch and slide the cover off.
2. If you are changing out batteries, take out all of the old batteries.
3. Put the new batteries in. Make sure you match the plus ("+" ) ends with the plus markings on the battery case.
4. Slide the cover back into place.

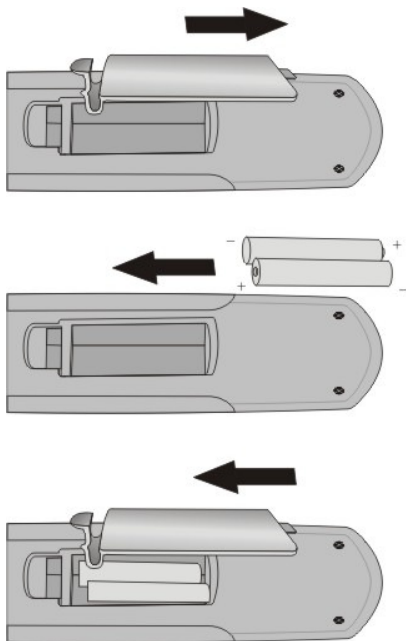


Figure 1-1 Loading Batteries to URC PLUS

# Chapter 2

## 2.1 Controlling the Hydra

Hydra is a multi-television gateway. It can support multiple TVs in multiple rooms viewing different channels or TV programs. You can use URC PLUS to control Hydra using radio signals (RF). These radio signals travel over long distances and go through walls and other solid objects. You must connect the RF Remote Control Antenna to the rear panel of the Hydra.

Your Hydra comes with 3 URC PLUS. (Additional URC PLUS can be purchased separately.) Your URC PLUS must be registered to one of the 3 decoders before it can be used. One URC PLUS can only be registered to one decoder. However, you can register at most 3 URC PLUS to a decoder. After registration, you need to use the corresponding URC PLUS to control the decoders.

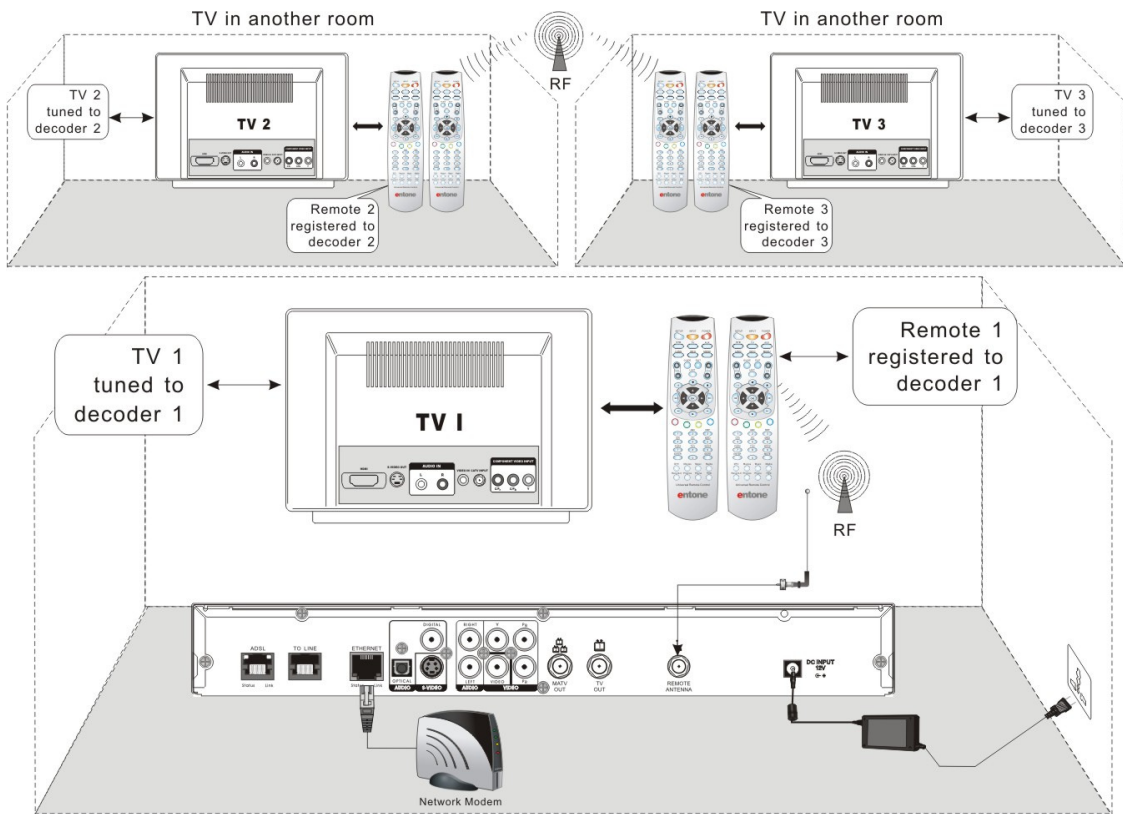


Figure 2-1 Controlling Hydra using RF URC PLUS

Here are some principles of the remote registration method:

- Each decoder allows a maximum of 3 URC PLUS to be registered and a registration list is maintained. If the user has registered 3 URC PLUS and tries to register another URC PLUS, the first registered URC PLUS will be removed from the registration list. This works as a first-in-first-out fashion.
- Each URC PLUS can only be registered for one decoder. If user tries to register a URC PLUS which is already registered to another decoder, that remote registration will be removed from the original registration list.
- The registration list is maintained in order. If the secondly registered URC PLUS is removed from the list, the third entry will move forth to the second and the third will be blank for a new URC PLUS to be registered.

You must install the RF Remote Control antenna before doing the registration. Please refer to the previous section for installing the RF Remote Control Antenna.

### Attach the RF Remote Control Antenna

You need to attach the RF Remote Control Antenna to the Hydra's rear panel "REMOTE ANTENNA" input in order to use the radio control remotes.

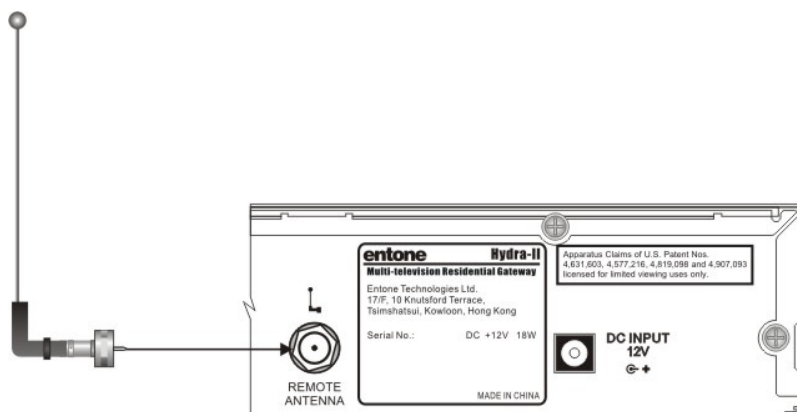


Figure 2-2 Attaching RF Remote Control Antenna

**NOTE:** Be sure to set the antenna straight up so that you can use the URC PLUS from as far away as possible. Don't let the antenna touch anything.

**ATTENTION:** If your URC PLUS isn't working very well from far away, you may be experiencing interference from objects near your receiver. To improve your URC PLUS's reception range, try any or all of the followings:

1. Place the receiver higher than all of the other equipment in your entertainment center.
2. Provide room above the receiver so that the antenna can be installed straight up. If this is not possible, tilt the RF Antenna at about a 30° angle.
3. Place the RF antenna outside the entertainment center by using a coaxial cable to connect the antenna to the Hydra.
4. Try moving the Hydra to other locations.

## URC PLUS Registration with Hydra

There are 2 types of Hydra boxes, the new one with the URC PLUS logo on top of the front panel and the old one without the URC PLUS logo. The registration method for the new box and the old box is different.



Figure 2-3 URC PLUS Logo

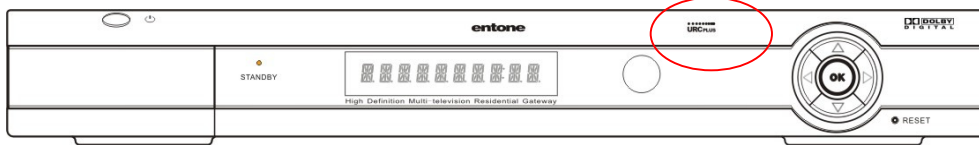


Figure 2-4 New Hydra with URC PLUS logo

The following table lists the new and old Hydra box type :

New Hydra with URC PLUS logo	Hydra HD B Series, Amulet HD
Old Hydra without URC PLUS logo	Hydra II, Hydra HD A Series

Check your Hydra box type and use the corresponding registration method.



### URC PLUS Registration with Hydra having URC PLUS logo

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.

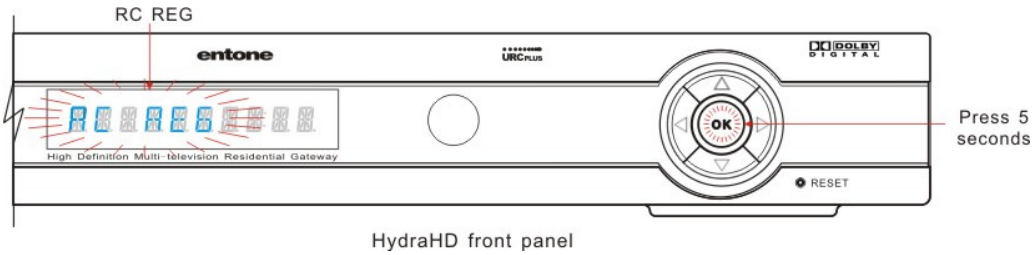


Figure 2-5 Hydra in Remote Registration Mode

2. On the URC PLUS, press and hold the "STB" button for approx. 5 seconds. The "STB" button backlight will illuminate.

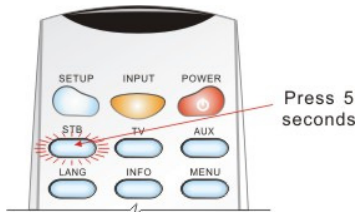


Figure 2-6 URC PLUS in Remote Registration Mode – Step 1 (for box with URC PLUS logo)

On the URC PLUS, press "STB" once again. Both the "STB" and "AUX" button backlight will illuminate.

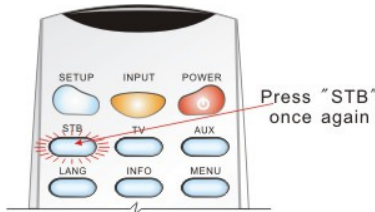


Figure 2-7 URC PLUS in Remote Registration Mode – Step 2 (for box with URC PLUS logo)

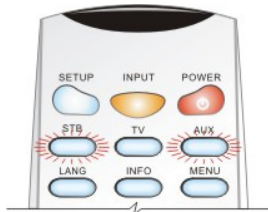


Figure 2-8 URC PLUS in Remote Registration Mode – Step 3 (for box with URC PLUS logo)

Now the URC PLUS is in registration mode.

3. Select the decoder to register by:
  - Press "1" to register URC PLUS to decoder 1.
  - Press "2" to register URC PLUS to decoder 2.
  - Press "3" to register URC PLUS to decoder 3.

After you enter a registration event, the "STB" button backlight on the URC PLUS will blink twice to indicate that the registration process was successful.

The Hydra front panel will display "RC REG Dx" to indicate that the registration process was successful.

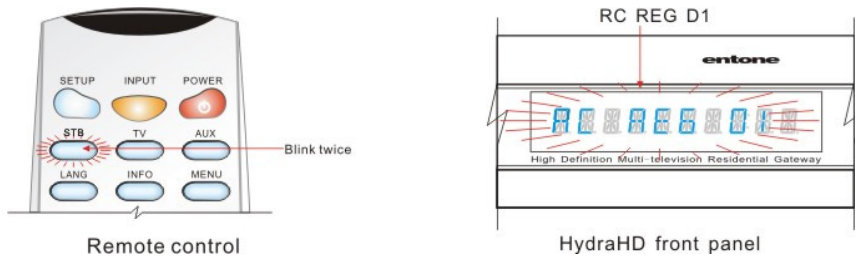


Figure 2-9 Remote Registration Successful

Pressing a key other than "0", "1", "2", "3" or a button is not pressed within 10 seconds, the "STB" backlight will extinguish and the URC PLUS registration process will be terminated.

4. If the Hydra does not receive any URC PLUS registration event within 30 seconds, the process will be terminated.

The Hydra front panel displays the following messages during remote control registration:

Front Panel Message	Description
RC REG TO	Registration times out
RC REGERR	Registration error
RC REG	In registration mode
RC REGEND	Registered to IR only mode
RC REG D1	Registered to decoder 1
RC REG D2	Registered to decoder 2
RC REG D3	Registered to decoder 3

Table 2-1 Remote Registration Messages

**NOTE:**

- While the URC PLUS is in "STB" mode, the volume +/- and MUTE key signal will be sent to the TV.
- While the URC PLUS is in "STB" mode, the POWER key signal will be sent to both the STB and the programmed TV.

## URC PLUS Registration with Hydra without URC PLUS logo

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 indicator blinks twice (alternates red and green), then stays lit red to indicate that the Hydra is now in remote registration mode.

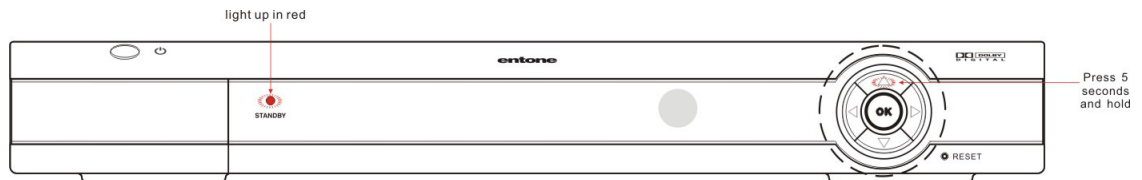


Figure 2-8 Hydra in Remote Registration Mode

2. On the URC PLUS, press and hold the "STB" button for approx. 5 seconds. The "STB" button backlight will illuminate. Now the URC PLUS is in registration mode.

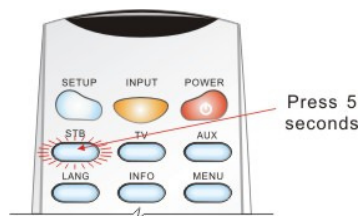


Figure 2-9 URC PLUS in Remote Registration Mode (for box without URC PLUS logo)

3. Select the decoder to register by:
  - Press "1" to register URC PLUS to decoder 1.
  - Press "2" to register URC PLUS to decoder 2.
  - Press "3" to register URC PLUS to decoder 3.

After you enter a registration event, the "STB" button backlight on the URC PLUS and the Hydra front panel Standby/On indicator will blink twice to indicate that the registration process was successful.

Pressing a key other than "0", "1", "2", "3" or a button is not pressed within 10 seconds, the "STB" backlight will extinguish and the URC PLUS registration process will be terminated.

4. If the Hydra does not receive any URC PLUS registration event within 30 seconds, the process will be terminated.

**NOTE:**

- While the URC PLUS is in "STB" mode, the volume +/- and MUTE key signal will be sent to the TV.
- While the URC PLUS is in "STB" mode, the POWER key signal will be sent to both the STB and the programmed TV.

# Chapter 3

## 3.1 Controlling the Amulet

Amulet is a single television video receiver. You can connect Amulet to a primary TV only. Amulet only uses InfraRed (IR) to receive remote control signals.

Unlike Hydra, you do not need to do remote registration in order to use URC PLUS to control Amulet. However, you have to program the URC PLUS to use IR.

To set the URC PLUS to use IR to control Amulet:

1. On the URC PLUS, press and hold the "STB" button for approx. 5 seconds. The "STB" button backlight will illuminate. Now the URC PLUS is in registration mode.

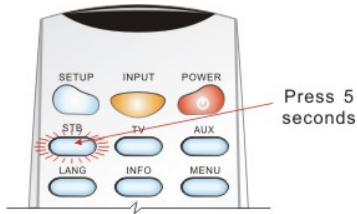


Figure 3-1 URC PLUS in Remote Registration Mode – Step 1 (for Amulet using IR mode)

2. On the URC PLUS, press "STB" once again. Both the "STB" and "AUX" button backlight will illuminate.

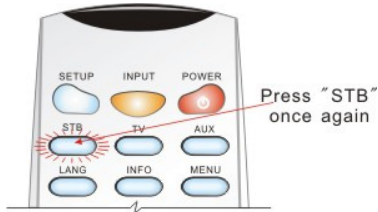


Figure 3-2 URC PLUS in Remote Registration Mode – Step 2 (for Amulet using IR mode)

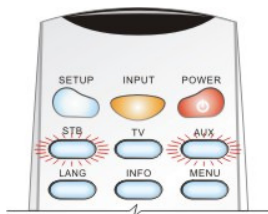


Figure 3-3 URC PLUS in Remote Registration Mode – Step 3 (for Amulet using IR mode)

3. Press "0" to set URC PLUS to IR mode only. The URC PLUS will not send any RF signal.

The "STB" button backlight on the URC PLUS will blink twice to indicate that the setting was successful.

Pressing a key other than "0", "1", "2", "3" or a button is not pressed within 10 seconds, the "STB" backlight will extinguish and the URC PLUS registration process will be terminated.

### IR Reception Range

IR signals travel only short distances (40 feet or less), and cannot go through walls or other solid objects. You must point the URC PLUS to the Amulet, with no objects blocking the line of sight.

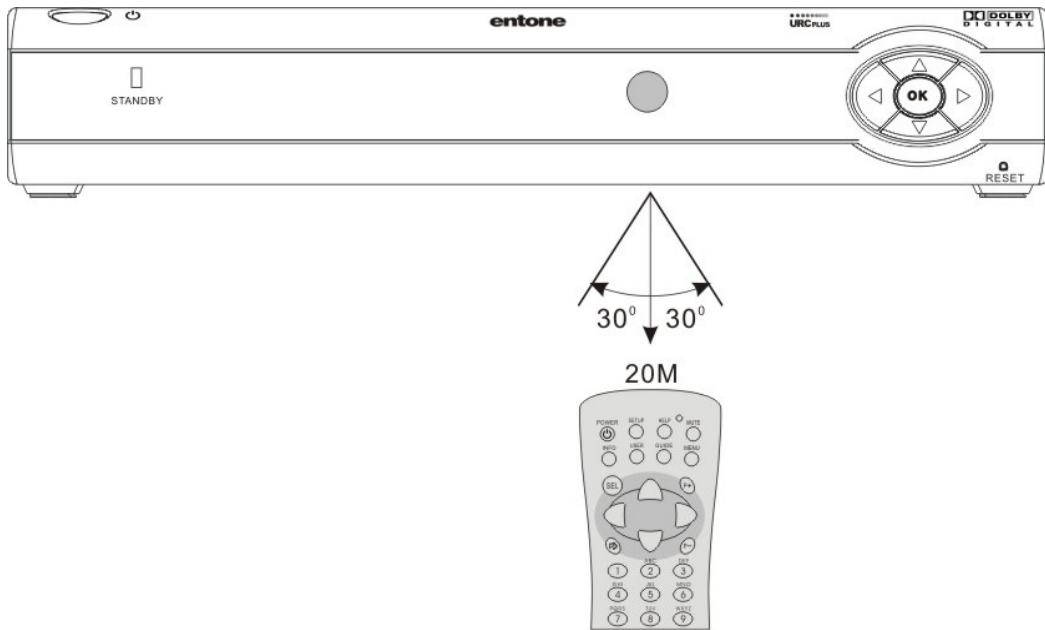


Figure 3-4 IR Reception Range

# Chapter 4

## 4.1 Controlling Your Television and other A/V Devices

The URC PLUS can also be used to control TVs and other A/V devices such as DVD players and recorders. The URC PLUS uses InfraRed (IR) light signals to control other devices that the remote is programmed to control. IR signals travel only short distances (40 feet or less), and cannot go through walls or other solid objects. You must point the URC PLUS directly at these devices, with no objects blocking the line of sight.

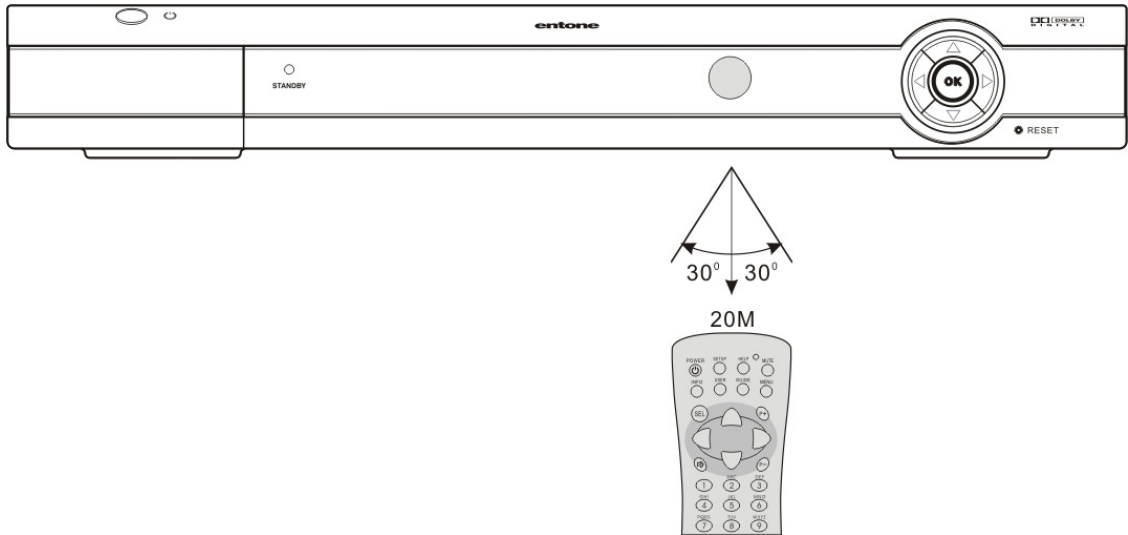


Figure 4-1 Controlling Devices using IR URC PLUS

You can program URC PLUS to control one TV and one AUX device. Use the remote control's mode keys (i.e., "STB", "TV", or "AUX") to control a specific device. When pressed, the selected mode key will light up confirming your choice. Then you can use the URC PLUS to control your STB, TV or AUX device.

You have to program the URC PLUS what TV and AUX devices you are using by either 1) entering the 4-digit device code 2) doing an auto search.

**NOTE:**

- While the URC PLUS is in "STB" mode, the volume +/- and MUTE key signal will be sent to the TV.
- While the URC PLUS is in "STB" mode, the POWER key signal will be sent to both the STB and the programmed TV.

## To Program a TV or 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").

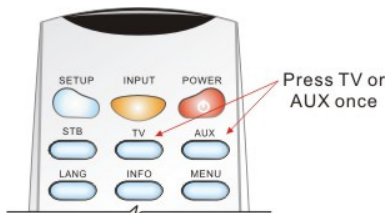


Figure 4-2 Select the device mode

**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.

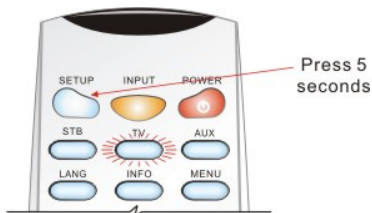


Figure 4-3 Press SETUP for 5 seconds to enter device setup mode

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.

## Auto Search Procedures

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

1. Turn on your TV or your A/V device.
2. 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.

3. Press and hold the "Setup" key until the selected device mode key blinks twice, then release "Setup". The device mode key will light up.
4. Press the "POWER" key once.
5. Aim the remote control at the TV. Press either the "CHANNEL UP" key or "CHANNEL DOWN" key to do device auto-scan:
  - a. Press the "CHANNEL UP" key to start searching upward at an approx. 5 seconds interval for each device code. The TV/AUX mode key will be on and blink every 5 seconds while in the device scan mode.

**NOTE:** In this search mode, the remote control will send IR codes from the library starting from the lowest code set number to the end of code set for that device; **OR**

- b. Press the "CHANNEL DOWN" key to start searching downward at an approx. 5 seconds interval for each code set. The TV mode key will be on and blink every 5 seconds while in the device scan mode.

**NOTE:** In this search mode, the remote control will send IR codes from the highest code set number to the beginning of code set of that device.

6. If the TV turns off, a working code has been found. Press OK once to lock in the code. The selected mode key will blink twice
7. If all code sets of that device is 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-Search does not scan device codes from 4056 to 4071. For decode codes from 4056 to 4071, you have to enter the device code manually.



# Appendix

## Appendix A – Device Code

Your URC Plus can control many brands and models of television, VCR, DVD and other types of audio-visual equipment. The following pages lists 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-Search feature to try to locate a suitable device code. Instructions for using the Auto-Search feature is located on page 15 of this guide.

### DVD

#### 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 - 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
Sony	2108, 2113
Venturer	2011

#### DVD - Network DVD

Go Video	2124
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#### DVD - Portable DVD

CyberHome	2083
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RCA	2055
Toshiba	2135

**DVD - TV/DVD Combo**

Apex	2095
Broksonic	2053
RCA	2063, 2099
Sansui	2071
Sylvania	2092
Toshiba	2054

**DVD - TV/DVD/VCR Combo**

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

**TV**

**TV - Digital TV**

Zenith	0020
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**TV - HDTV**

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

**TV - HDTV Projection TV**

Sony	0037
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**TV - LCD TV**

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

**TV - PLASMA TV**

Viewsonic	0149
Gateway	0038

**TV - Plasma TV Monitor**

Acer	0041
Fujitsu	0029
Pioneer	0035

**TV - Projection TV**

Hitachi	0132
JVC	0130, 0131
Panasonic	0010
Sony	0128
Toshiba	0127

**TV - TV**

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
Daytron	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
Goldstar	0004, 0005, 0011, 0018, 0050, 0090, 0091, 0097, 0098
Grunpy	0036, 0044
Hallmark	0004
Harvard	0036
Hisense	0112
Hitachi	0004, 0011, 0012, 0030, 0051, 0084, 0085, 0086, 0102, 0133
IMA	0036
Infinity	0053
Janeil	0100
JBL	0053
JC Penney	0000, 0004, 0005, 0007, 0012, 0021, 0048, 0049, 0058, 0063, 0068, 0072, 0073, 0075, 0097, 0098
JCB	0002
Jensen	0004
JVC	0011, 0012, 0026, 0049, 0054, 0055, 0080, 0117
Kawasho	0002, 0004
Kenwood	0004, 0018
Kloss Novabeam	0036, 0056, 0057, 0100
KTV	0036, 0097
LG	0005
Loewe	0053
Logik	0001
Luxman	0004
LXI	0000, 0004, 0045, 0053, 0058, 0068, 0075

Magnavox	0004, 0007, 0018, 0053, 0056, 0057, 0059, 0060, 0110, 0147
Majestic	0001
Marantz	0004, 0051, 0053
Megatron	0004, 0051
Memorex	0001, 0004, 0005, 0022, 0045
MGA	0004, 0005, 0018, 0021, 0047, 0061
Midland	0049, 0068, 0097, 0098
Minutz	0048
Mitsubishi	0004, 0005, 0018, 0021, 0032, 0047, 0061
Montgomery Ward	0001
Motorola	0003, 0099
MTC	0004, 0005, 0073
Multitech	0036
NAD	0004, 0058, 0075, 0085
NEC	0003, 0004, 0005
Nikko	0004, 0015
NTC	0015
Onwa	0036
Optimus	0085
Optonica	0064, 0099
Orion	0023, 0033, 0107
Panasonic	0003, 0049, 0053, 0096, 0123, 0140, 0152
Philco	0003, 0004, 0005, 0007, 0011, 0018, 0053, 0056, 0057, 0059
Philips	0003, 0007, 0011, 0017, 0018, 0053, 0056, 0057, 0059, 0063, 0095, 0126, 0129, 0148
Philips Magnavox	0148
Pilot	0097
Pioneer	0004, 0085, 0102
Portland	0004, 0005, 0015, 0097
Price Club	0073
Prima	0113
Prism	0049
Proscan	0000, 0008, 0068
Proton	0004, 0011
Quasar	0003, 0039, 0049, 0062, 0069
Radio Shack	0000, 0045
Radio Shack/Realistic	0004, 0011, 0036, 0045, 0064, 0097, 0098

RCA	0000, 0003, 0004, 0005, 0008, 0018, 0028, 0052, 0065, 0067, 0068, 0071, 0076, 0082, 0102, 0104, 0106, 0108, 0115, 0151
Realistic	0000, 0045
Sampo	0004, 0097, 0098, 0120
Samsung	0004, 0005, 0011, 0014, 0018, 0019, 0072, 0073, 0078, 0094, 0097, 0098
Sansui	0023, 0107, 0122
Sanyo	0045, 0103
Scotch	0004
Scott	0004, 0011, 0033, 0036, 0044
Sears	0000, 0004, 0012, 0018, 0044, 0045, 0047, 0055, 0058, 0068, 0075, 0103, 0105
Sharp	0004, 0009, 0011, 0025, 0064, 0077, 0092, 0097, 0099, 0153
Signature	0001
Simpson	0007
Sony	0002, 0109
Soundesign	0004, 0007, 0036, 0044
Squareview	0105
SSS	0036
Starlite	0036
Supre-Macy	0100
Supreme	0002
Sylvania	0004, 0007, 0018, 0027, 0053, 0056, 0057, 0059, 0060, 0124, 0145, 0150
Symphonic	0024, 0031, 0036, 0105
Tandy	0099
Tatung	0003
Technics	0049
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,

White Westinghouse	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**

**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
Asha	1035
Audio Dynamics	1031, 1032
Audiovox	1036
Beaumarck	1034, 1035
Bell & Howell	1033
Broksonic	1034, 1078, 1098
Calix	1036
Candle	1035, 1036, 1037, 1039, 1040
Canon	1042
Carver	1062
CCE	1048, 1061
Citizen	1035, 1036, 1037, 1039, 1040, 1048
Colortyme	1031
Colt	1061
Craig	1035, 1036, 1044, 1061
Curtis Mathes	1026, 1031, 1035, 1040, 1042
Cybernex	1035
Daewoo	1037, 1039, 1047, 1048, 1085
DBX	1031, 1032
Dimensia	1026
Dynatech	1047
Electrohome	1036, 1049
Electroponic	1036
Emerson	1034, 1036, 1037, 1042, 1047, 1049, 1076, 1097
Fisher	1033, 1044
Fuji	1042, 1084
Funai	1028, 1047

Garrard	1047
GE	1026, 1035, 1042, 1069
Go Video	1043, 1045, 1088, 1092
Goldstar	1031, 1036, 1040
Gradiente	1047
Harley Davidson	1047
Harman Kardon	1031
Harwood	1061
Headquarter	1033
Hi-Q	1044
Hitachi	1038, 1058, 1081
Instant Replay	1042
JC Penney	1031, 1032, 1033, 1034, 1035, 1036, 1042, 1058, 1061, 1062
JCL	1042
Jensen	1058, 1081
JVC	1030, 1031, 1032, 1033, 1040, 1081, 1093
Kenwood	1031, 1032, 1033, 1040, 1081
KLH	1061
Kodak	1036, 1042
LG	1036
Lloyd's	1047
Logik	1061
LXI	1036
Magnavox	1042, 1062, 1077
Magnin	1036
Marantz	1031, 1032, 1033, 1040, 1042, 1062
Marta	1036
Matsushita	1042
MEI	1042
Memorex	1027, 1033, 1035, 1036, 1042, 1044, 1047, 1077
MGA	1049
MGN Technology	1035
Midland	1057
Minolta	1058
Mitsubishi	1049, 1058
Montgomery Ward	1027
Motorola	1027, 1042
MTC	1035
Multitech	1035, 1047, 1057, 1061
NEC	1031, 1032, 1033, 1040,

	1081
Nikko	1036
Noblex	1035
Olympus	1042
Optimus	1027, 1036
Panasonic	1042, 1072, 1073, 1079, 1080, 1082, 1083
Pentax	1058
Pentex Research	1040
Philco	1042, 1062
Philips	1042, 1062, 1091
Pilot	1036
Pioneer	1032, 1058
Polaroid	1041
Portland	1039
Proscan	1026
Protec	1061
Pulsar	1077
Quarter	1033
Quartz	1033
Quasar	1042, 1067, 1068
Radio Shack	1027, 1036
Radio Shack/Realistic	1033, 1035, 1036, 1042, 1044, 1047, 1049
Radix	1036
Randex	1036
RCA	1026, 1035, 1042, 1046, 1058, 1065, 1066, 1086, 1094
Realistic	1027, 1033, 1035, 1036, 1037, 1042, 1044, 1047, 1049
Ricoh	1090
Runco	1077
Samsung	1035, 1037, 1054, 1057, 1070, 1075, 1095
Sanky	1027, 1077
Sansui	1032, 1081
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**

#### **Cable Box - 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**

**Satellite - HDTV Tuner**

Panasonic	4054
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**Satellite - SAT-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

**SAT - Satellite Receiver/Recorder**

Philips	4048
RCA	4041
Sony	4047

**Audio**

**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
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
	5017, 5028, 5029, 5030, 5031, 5032, 5033, 5080, 5081
Sony	
Technics	5016
Wards	5000, 5021
Yamaha	5003, 5014, 5015, 5021

### Audio - Tuner/CD Combo

BOSE	5007
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## Appendix B – Other Features

### Showing URC PLUS Firmware Version

The URC PLUS firmware version is in the format of x.y.z, where x, y and z is digit 0-9. Use the following procedures to show the URC PLUS firmware version:

1. Press "STB".
2. Press and hold "SETUP" for 5 seconds.
3. The "STB" backlight will illuminate.
4. Press "INFO" once.
5. The 3 digits of the firmware version (x, y and z as described above) will be displayed in the following manner.
  - a. The "STB" backlight blinks to indicate the digit. One blink indicates 1, 2 blinks indicates 2, etc until 9 blinks indicates 9. A 0 is indicates by a shot, long, short, long, short, long blink.
  - b. In between each digit, the "STB" backlight will be off for 1 second.
  - c. For example, the following blink pattern shows a firmware version of 2.0.4.

... ..

### Showing Programmed Device Code

You can display the 4-digit device code by the following procedures:

1. Press "TV" to display the TV device code or "AUX" to display the AUX device code.
2. Press and hold "SETUP" for 5 seconds.
3. The "TV" or "AUX" backlight will illuminate.
4. Press "INFO" once.
5. The 4-digits device code will be displayed in the following manner.
  - a. The "TV"/"AUX" backlight blinks to indicate the digit. One blink indicates 1, 2 blinks indicates 2, etc until 9 blinks indicates 9. A 0 is indicates by a shot, long, short, long, short, long blink.
  - b. In between each digit, the "TV"/"AUX" backlight will be off for 1 second.
  - c. For example, the following blink pattern shows a device code of 0123.

... ..

### Factory Reset

You can factory reset the remote by pressing the "SETUP" and "POWER" button at the same time for 10 seconds. After factory reset, the programmed device setting will lose. You need to program the devices and do the remote registration with your Hydra/Amulet again. In case, you find your remote does not function as expected, you can also try the factory reset.