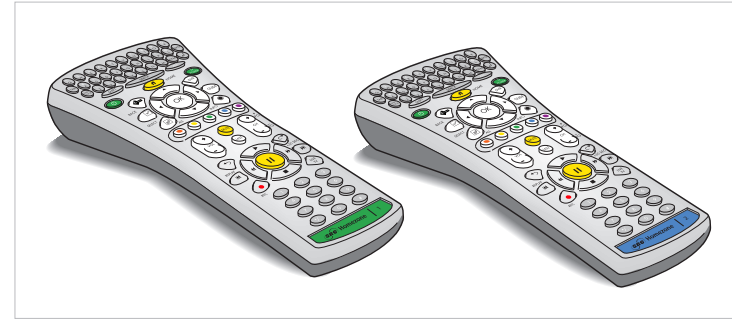


REMOTE CONTROL PROGRAMMING



DISTINGUISHING REMOTE CONTROL 1 AND REMOTE CONTROL 2

The receiver is capable of supporting two simultaneous users and is therefore supplied with two distinct remote controls.

TV1 Remote Control (Green)

The TV1 Remote Control has a green label with a number “1” and will control the nearby television (TV1), which is typically located where the RECEIVER resides. This remote control uses infra-red (IR) signals to control the receiver and your TV1 on-screen experience, and requires unobstructed, line-of-sight use with the receiver.

TV2 Remote Control (Blue)

The TV2 Remote Control has a blue label with a number “2” and will control a second television (TV2), which is connected via coaxial cable to the receiver. This remote uses RF signals, which can travel long distances and go through walls. The TV2 Remote Control is able to control the receiver and your TV2 on-screen experience from anywhere in your home up to 200 feet away.

PAIRING THE TV2 REMOTE CONTROL TO THE RECEIVER

It is necessary to synchronize your TV2 Remote Control with your receiver before use. You're shown how to do this during the on-screen setup process, but the instructions are repeated below.

Using Your TV1 Remote Control:

1. Press **HOME** on the remote control to display the home menu.
2. Select **System Settings** to go to the System Settings Main Menu.
3. Select **Television** to go to the TV Settings menu.
4. Select **2nd TV Setup** to go to the TV2 menu.
5. Select **Pair TV2 Remote**. The Configure TV2 Remote Control window displays.

Using Your TV2 Remote Control on TV1:

6. Simultaneously press and hold **NUMBER PAD 3** and **NUMBER PAD 7** until the LED blinks twice and stays on. Release both keys.
7. When complete, the TV2 Remote Control Configured window displays.

Using Your TV1 Remote Control on TV1:

8. Press **OK** to continue.

Because RF signals travel long distances and go through walls, a neighbor's remote may control your receiver by mistake. If this is happening, perform the procedure above to re-pair your TV2 Remote Control. Each time, one of 256 codes is randomly selected, so the likelihood of interference with your neighbor is low.

CONFIGURING THE REMOTE CONTROL TO CONTROL A TELEVISION DEVICE, AUDIO DEVICE, OR BOTH

Each remote control is capable of controlling not only the receiver, but also your television and optionally another audio device (i.e., stereo receiver or other media device).

Configuration 1 (television only)

If you use your television to output both video and audio, you should configure your remote control to control your television only. In this configuration, pressing **VOL +**, **VOL -**, **MUTE**, and **TV POWER** on the remote control will control your television's volume up, volume down, mute, and power functions respectively.

To program your remote control for this configuration:

1. Simultaneously press the **SHIFT** and **NUMBER PAD 1**.

Configuration 2 (television and audio device)

If you use your television to output video only and another audio device (i.e., stereo receiver or other media device) to output audio, you should configure your remote control to control both your television and audio device. In this configuration, pressing **TV POWER** on the remote control will control your television's power function and pressing **VOL +**, **VOL -**, and **MUTE** will control your audio device's volume up, volume down, and mute functions respectively. Additionally, simultaneously pressing the **KEYBOARD SHIFT** and **TV POWER** will toggle the power of your audio device.

To program your remote control for this configuration:

1. Simultaneously press the **SHIFT** and **NUMBER PAD 2**.

PROGRAMMING EACH REMOTE CONTROL TO CONTROL A TELEVISION

To program your remote control to your television:

1. Turn on the television device using the device's front panel or its remote control.
2. Simultaneously press **NUMBER PAD 1** and **NUMBER PAD 3** to enter television-programming mode.
3. After 3 seconds, the LED indicator on top of the remote control will blink twice and stay lit.
4. Find the 3-digit Code Number from Table 1 that corresponds to your television's manufacturer. Many manufacturers have several Code Numbers associated with them. Start with the first Code Number.

5. Enter the 3-digit Code Number using the lower keypad on the remote control. After each digit key press, the LED indicator will blink.
6. If a valid 3-digit Code Number is entered, the LED indicator will blink twice and switch off. The remote control is now programmed with the new Code Number of the television device.
7. If an invalid 3-digit Code Number is entered, the LED indicator will give one long blink and switch off. The previously programmed code is retained.
8. Try turning off the television device by pressing **TV POWER** on the remote control. If the television device does not turn off, go to step 10.
9. Turn the device back on and try **VOL +**, **VOL -**, and **MUTE** to make sure they work. If the Code Number works, stop here.
10. If the Code Number does not work, repeat steps 1-9 with the next Code Number in the table.
11. If you cannot find a code that works, try 000-156 until the remote control works.

PROGRAMMING EACH REMOTE CONTROL TO CONTROL AN AUDIO DEVICE (CONFIGURATION 2 ONLY)

To program your remote control to your audio device:

1. Turn on the audio device using the device's front panel or its remote control.
2. Simultaneously press **NUMBER PAD 1** and **NUMBER PAD 6** to enter audio-programming mode.
3. After 3 seconds, the LED indicator on top of the remote control will blink twice and stay lit.
4. Find the 3-digit Code Number from Table 2 that corresponds to your audio device's manufacturer. Many manufacturers have several Code Numbers associated with them. Start with the first Code Number.
5. Enter the 3-digit Code Number using the lower keypad on the remote control. After each digit key press, the LED indicator will blink.
6. If a valid 3-digit Code Number is entered, the LED indicator will blink twice and switch off. The remote control is now programmed with the new Code Number of the audio device.
7. If an invalid 3-digit Code Number is entered, the LED indicator will give one long blink and switch off. The previously programmed code is retained.
8. Try turning off the audio device by pressing **TV POWER** on the remote control. If the audio device does not turn off, go to step 10.
9. Turn the device back on and try **VOL +**, **VOL -**, and **MUTE** to make sure they work. If the Code Number works, stop here.
10. If the Code Number does not work, repeat steps 1-9 with the next Code Number in the table.
11. If you cannot find a code that works, try every code from 000-156 until the remote control works.

TABLE 1 Television Device Code Numbers

A Mark	134	Fujitsu	083
Action	108	Funai	082 083 106 108
Admiral	071 093 099 118 127 130 131	GE	009 066 067 070 072 073 075 085 086 104 106 110 113 116 117 125 126 127 128 134 144 149 154 155
Advent	147		086 104 106 110 113 116 117 125 126 127 128 134 144 149 154 155
Aiko	079		073 074 075 078 080 092 104 105 109 112 117 134 135 137
Aiwa	047	Goldstar	073 074 075 078 080 092 104 105 109 112 117 134 135 137
Akai	104 105 123		073 074 075 078 080 092 104 105 109 112 117 134 135 137
Amtron	082		073 074 075 078 080 092 104 105 109 112 117 134 135 137
Anam	106		073 074 075 078 080 092 104 105 109 112 117 134 135 137
Anam National	072 082 110		073 074 075 078 080 092 104 105 109 112 117 134 135 137
AOC	073 074 075 104 112 117 134 140	Gradiente	105 122 123
	112 117 134 140	Granada	134
Apex	000 001 015 016	Grundig	126 134
Audiovox	082 108 140 144	Hallmark	073 075 104
Bell & Howell	071 084 118 131	Harman Kardon	104
Benq	051	Hisense	151
Broksonic	037 038 104 106 118 138 146	Hitachi	041 042 058 059 068 073 075 078 101 117 126 127 131 134 140 145
Carver	153		041 042 058 059 068 073 075 078 101 117 126 127 131 134 140 145
CCE	118	Infinity	087 153
Centurion	077	Inovision	009 076 144
Citek	143	Janeli	094
Citizen	073 075 079 082 089 092 138	JBL	087 153
	104 123	JC Penney	070 073 074 075 085 086 089 092 104 112 113 125 126 127 134 149 155
Classic	073 075 105 116 118 125 127 139	Jensen	073 075 105 129
Colortyme	106 108	JVC	007 010 012 031 036 078 086 103 122 125 126
Contec Cony	078 082		073 075 112 123 073 075 080 104 105 112 116 139 082 094 110
Contec/Cony	082 106 108 114 119 125 138	Kawasho	073 075 112 123
Craig	118 153	Kenwood	073 075 080 104 105 112 116 139 082 094 110
Crosley	082 087 119 134		073 075 080 104 105 112 116 139 082 094 110
Crown	056		073 075 080 104 105 112 116 139 082 094 110
CTX	104	Kloss	082 092 106 108 112 117 134
Curtis	070 073 075 084 089 092 102 105 112 117 118 125 127 134 135 148 153 155	Novabeam	082 092 106 108 112 117 134
Curtis Mathes	073 074 075 079 092 104 110 112 117 134 135 140 144	KTV	082 092 106 108 112 117 134
	006 014 016 136	LG	074
Dalian	073 075 092 114 117 134 140	Lloyds	137 139
Daytron	145	Loewe	087
Denon	070 155	Logik	071 142
Dimensia	073 091	Luxman	073 075
Dumont	072 073 075 080 104 105 117 134	LXI	070 075 084 087 104 118 127 149 153 155
Electrohome	073 075 078 081 082 083 084 092 096 103 104 105 106 108 114 117 119 125 129 130 131 134 139 144 146	Magnasonic	104 105 131 140
	073 075 078 081 082 083 084 092 096 103 104 105 106 108 114 117 119 125 129 130 131 134 139 144 146	Magnavox	104 105 131 140 080 102 106 110 111 113 116 117 125 127 128 134 148 149 154 155
Emerson	073 075 105 112 052 084 115 123 124 133	Majestic	071
	073 075 105 112 052 084 115 123 124 133	Marantz	073 075 087 105 112 116 117 118 153
	073 075 105 112 052 084 115 123 124 133	Megatron	075
	073 075 105 112 052 084 115 123 124 133	Memorex	071 074 075 084 104
	073 075 105 112 052 084 115 123 124 133	MGA	073 074 075 080 105
	073 075 105 112 052 084 115 123 124 133	Mitsubishi	049 073 074 075 080 104 105 112 117 134

Montgomery Ward	071	Sanyo	073 084 115 124 020 036
Motorola	072 093	Sasho	073 075 078 082 083 106 108 117 130 134
MTC	073 074 075 089 104 112 118 125 140	Scott	073 075 078 082 083 106 108 117 130 134
	073 074 075 089 104 112 118 125 140	Sears	070 073 075 080 083 084 095 104 106 115 118 124 127 133 134 149 153 155
Multitech	082		070 073 075 080 083 084 095 104 106 115 118 124 127 133 134 149 153 155
Multivision	088		070 073 075 080 083 084 095 104 106 115 118 124 127 133 134 149 153 155
NAD	075 101		070 073 075 080 083 084 095 104 106 115 118 124 127 133 134 149 153 155
NEC	072 073 074 075 080 092 104 105 109 112 117 134 139 141	Sharp	013 028 035 073 075 078 092 093 120 131 132 134 139 141
Nikko	075 079 140		013 028 035 073 075 078 092 093 120 131 132 134 139 141
Noblex	137		013 028 035 073 075 078 092 093 120 131 132 134 139 141
Onwa	082 106	Signature	071
Optimus	101	Signature 2000	115 132
Optonica	093	Sony	002 018 026 098 100 121 123 134
Orion	096 130 146		002 018 026 098 100 121 123 134
Panasonic	003 011 023 032 033 034 072 086 087 108 110 113 126 127 128 140	Soundesign	073 075 082 083 104 106 117 119 129
	003 011 023 032 033 034 072 086 087 108 110 113 126 127 128 140	Starlite	082
Philco	072 073 074 075 078 080 087 104 105 112 114 117 118 119 131 140 145 153	Supre-Macy	094
	072 073 074 075 078 080 087 104 105 112 114 117 118 119 131 140 145 153	Sylvania	044 046 069 073 075 080 087 104 105 112 114 117 118 119 140 153
Philips	004 005 029 030 072 073 078 080 087 118 153	Symphonic	081 082 095 108
	004 005 029 030 072 073 078 080 087 118 153	Tandy	093 118
Pioneer	045 073 075 101 110 111 116 117	Tatung	072 110 138
	045 073 075 101 110 111 116 117	Technics	086 126 128
Portland	073 074 075 079 092 104 112 117 134 135	Techwood	073 075 086 105 118
	073 074 075 079 092 104 112 117 134 135	Teknika	071 073 074 075 078 079 082 083 089 092 106 108 112 116 117 119 134 137 140 143 153
Price Club	089	Telecaption	090
Prima	135 142 152	Telefunken	139
Prism	086	Toshiba	006 019 021 024 025 027 084 089 090 115 125 133 150
Proscan	070 127 149 154		006 019 021 024 025 027 084 089 090 115 125 133 150
155		ToteVision	092 127
Proton	073 075 078 104 105 117 119 127 134 138	Ultra	140
	073 075 078 104 105 117 119 127 134 138	Uniden	121
Quasar	053 063 064 072 086 110 114 126 128	Universal	085
	053 063 064 072 086 110 114 126 128	Video Concepts	106
Radio Shack	084 106 108 110 118 120 124 127 132 134 155	Vidikron	118 153
	084 106 108 110 118 120 124 127 132 134 155	VisteK	040 048
Radio Shack/ Realistic	070 073 075 078 082 084 092	Wards	070 071 073 074 075 080 081 083 085 087 104 112 113 117 118 119 120 125 127 131 153 155
RCA	008 060 065 070 072 073 074 075 080 102 106 110 111 113 116 117 125 127 128 134 148 149 154 155		070 071 073 074 075 080 081 083 085 087 104 112 113 117 118 119 120 125 127 131 153 155
	008 060 065 070 072 073 074 075 080 102 106 110 111 113 116 117 125 127 128 134 148 149 154 155	Walmart	055 051 107
Realistic	084 155	White	104 112 134 135
Replay	156	Westinghouse	140 144
Runco	091	Yamaha	073 074 075 080 112 119 139 140
Sampo	039 073 075 092 110 112 117	Zenith	050 055 061 071 073 091 109 121 140
	039 073 075 092 110 112 117		050 055 061 071 073 091 109 121 140
Samsung	043 048 054 057 062 073 074 075 078 080 089 092 097 104 112 117 118 125 131 134 139		050 055 061 071 073 091 109 121 140
	043 048 054 057 062 073 074 075 078 080 089 092 097 104 112 117 118 125 131 134 139	Sansui	022 096 120

TABLE 2 Audio Device Code Numbers

Amplifier		Receiver/Amplifier	
Kenwood	048	Yamaha	001
Pioneer	041	Receiver/Tuner	
RCA	069	Aiwa	017 036 039
Yamaha	001 053	BOSE	010
Audio Cassette		Cambridge	011 028
Aiwa	039	Carver	051
Curtis Mathes	041	Curtis Mathes	041
Denon	052	Denon	006 026 027 052
Fisher	042 049		052
GE	070	Fisher	042 044 049
Kenwood	048 056	Gradiente	062
NAD	040	Harman Kardon	008 038 046
Nakamichi	054	Hitachi	059
Onkyo	055	Ibiza	006 037
Optimus	041 047	JBL	038
Panasonic	015 050	Jensen	061
Philips	013	JVC	007 030
Pioneer	018 041 045	Kenwood	005 028 048 056
Proscan	070	Luxman	064
Quasar	050	Marantz	019
Radio Shack	047	McIntosh	058
RCA	070	NAD	040
Sansui	057	Nakamichi	054
Sanyo	044	NEC	040
Sherwood	047	Nikko	063
Sony	043	Onkyo	003 021 055
Technics			