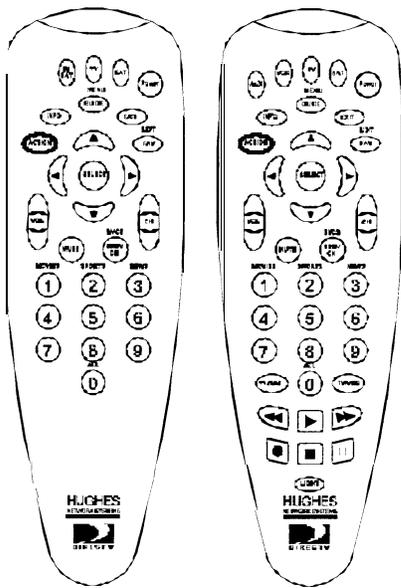


PROGRAMMING YOUR REMOTE CONTROL

8

You can use the remote control that came with your digital satellite receiver to control other components in your entertainment system. The basic remote control (HRMC-2) can control your digital satellite receiver and most TV brands. The universal remote control (HRMC-3) can control the digital satellite receiver as well as many brands of TVs, VCRs, tuners/amplifiers, laser disc players, and cable boxes.



*The basic remote control (HRMC-2) on the left.
The universal remote control (HRMC-3) on the right*

Programming the Remote Control

There are two different ways to program your remote control to match the devices you want to control: code scan or code entry. Code scan can take some time, but it avoids having to dig out this manual whenever you want to program your remote control. Code entry saves some time; however, you will need to look up the possible codes that are assigned to the manufacturer of the device you want to control.

If you have a TV with a built-in VCR, you will likely need to program your remote control to operate it as a VCR. This may limit the control you have over some features, such as volume.

Code Scan

Keep your remote control aimed at the device you want to control during this process. The remote control will send out the “power” command for the device being programmed.

While holding down the device key that you are programming, press the “Mute” key, and simultaneously release both keys. On the HRMC-3, the light at the front of the remote control should light and stay lit. If it isn’t, repeat the process.

Now you are in programming mode. You can now press the **GO** key to try the next code, sending out the power command. This could take some time since there could be as many as 120 codes associated with each type of device. When your device responds to your tapping the **GO**, you have found the code! If you inadvertently go past a code that responded, or realized that you may not have been aiming the remote at the device, you can use the **GO** key to step backward through the codes. Press the **POWER** key to verify that you haven’t missed the code.

In order to lock in the code, press the device key again. The remote will remember the code until you reprogram it.

Code Entry

First, look up the device type and brand in the following charts. You will find a list of numbers, one or more of which should operate your device. There may be more than one code, so you will need to try each of them to find the one that works best.

While holding down the device key that you are programming, press the "Mute" key, and simultaneously release both keys. The light at the front of the on the model HRMC-3 remote control should light and stay lit. If it isn't, repeat the process. Note that there is no indicator light on the model HRMC-2 remote control.

You are now in code entry mode. Simply use the remote control keypad to enter the three-digit code. Press the device key being programmed once again to lock in the entered code. The remote will remember the code until you reprogram it.

Test if the entered code matches your device by pressing the **POWER** key. If the device works, you're all set! Otherwise, repeat the process using the next code for your brand or try the code scan procedure.

Brand	Televisions
Admiral	072, 081, 161
A Mark	112, 143
Akai	001, 146
Ampro	073, 167
Amstrad	052
Anam	043, 054, 056, 080, 084, 108, 112, 115, 118, 121, 131
AOC	001, 004, 036, 112
Blaupunkt	088
Bruette	572
Candle	001, 002, 003, 004
Capehart	058
Catronic	043
Citizen	001, 002, 003, 004, 043, 101, 103, 143
Classic	043
Concerto	004
Contec	039, 043, 050, 051
Coronado	1143
Craig	043, 054
Crown	043, 143
Curtis Mathes	001, 116, 143, 101
Culbertson	352
CXC	043
Daewoo	004, 006, 016, 017, 043, 044, 055, 071, 076, 103, 107, 111, 114, 117, 120, 123, 125, 127, 128, 136, 143
Daytron	004, 143
Dynasty	043
Dynatech	062
Electrohome	024, 077, 143
Emerson	004, 005, 028, 043, 047, 048, 051, 143, 151, 153, 155
Fisher	007, 057
Funai	028, 043
Futuretech	043
GE	001, 008, 009, 034, 056, 073, 074, 091, 144, 155, 160, 161, 165
Goldstar	004, 102, 106, 110, 112, 113, 119, 122, 127, 137, 143
Hall Mark	004
Hitachi	001, 004, 007, 009, 010, 011, 012, 023, 075, 143
Infinity	164
Inkel	129
JBL	164
J.C. Penney	001, 004, 008, 024, 030, 065, 077, 101, 143, 160
Jensen	013
JVC	034, 038, 083, 034
KEC	043
Kenwood	001, 070
Kloss	002, 059
KMCC	143

Brand	Televisions
KTV	001, 043, 143, 154
Kuehn	265
Lodgenet	072
Logik	072
Luxman	004
LXI	007, 015, 052, 081, 160, 164
Magnavox	001, 003, 022, 059, 060, 061, 063, 064, 127, 160, 164
Marantz	001, 077, 164
Matsui	164
Memorex	004, 007, 072
Metz	088
MGA	001, 004, 024, 028, 042, 049, 077
Minerva	088
Mitsubishi	081, 004, 024, 040, 042, 077, 146
MTC	001, 004, 062, 101
NAD	015, 025
NEC	001, 016, 024, 040, 056, 077, 130, 134
Nikei	043
Onking	043
Onwa	043
Optonica	019, 081
Panasonic	034, 056, 080, 164
Philco	001, 003, 004, 056, 059, 060, 063, 064, 143, 164
Philips	001, 003, 004, 038, 059, 070, 143, 160, 164
Pioneer	001, 018, 023, 025
Portland	004, 143
Prism Multimedia	572
Proton	004, 058, 131, 143
ProScan	144, 160, 161, 165
Quasar	034, 056
Radio Shack	004, 019, 043, 127, 143
RCA	001, 004, 023, 024, 056, 065, 074, 144, 152, 156, 160, 161, 165
Realistic	007, 019, 043, 047
Sampo	001, 058
Samsung	050, 089, 101, 105, 127, 133, 143, 160, 161
Sanyo	007, 020, 053, 057, 082
Scott	004, 028, 043, 048, 143
Sears	004, 007, 015, 028, 030, 057, 082, 101, 143, 160, 165
Sharp	004, 019, 014, 022, 028, 081, 143
Siemens	088
Signature	072
Sony	070, 085
Soundesign	003, 004, 028, 043
Spectricon	112
SSS	004, 043

Brand	Televisions
Supremacy	002
Sylvania	001, 003, 004, 059, 060, 063, 064, 127, 160, 164
Tandy	081
Talung	056, 062
Technics	084
Techwood	004
Teknika	001, 002, 003, 004, 024, 028, 043, 072, 101, 143
Telefunken	037, 046, 086, 087
Tolerent	072
TMK	004
Toshiba	007, 015, 030, 040, 051, 062, 101
Totevision	143
Universal	008, 009
Video Concepts	146
Vidtech	004
Wards	004, 008, 009, 019, 028, 060, 061, 063, 064, 072, 074, 143, 164
Yamaha	001, 004
York	004
Yupiteru	043
Zenith	072, 073
Zonda	112

Brand	VCRs
Aiwa	034
Akai	016, 043, 046, 124, 125, 142
Ampro	072
Anam	031, 033, 103
Audio Dynamics	012, 023, 039, 043
Broksonic	035, 037, 129
Canon	028, 031, 033
Capehart	108
Craig	003, 040, 135
Curtis Mathes	031, 033, 041
Daewoo	005, 007, 010, 064, 065, 108, 110, 111, 112, 116, 117, 119
Daytron	108
DBX	012, 023, 039, 043
Dynatech	034, 053
Electrohome	002
Emerson	006, 017, 025, 027, 029, 031, 034, 035, 036, 037, 046, 101, 129, 131, 138
Fisher	003, 008, 009, 010
Funai	034
GE	031, 033, 063, 072, 126, 143, 144
Go Video	132, 136
Goldstar	012, 013, 020, 101, 106, 114, 123

PROGRAMMING YOUR REMOTE CONTROL

Brand	VCRs
Harman Kardon	012, 045
Hitachi	004, 018, 026, 034, 043, 047, 063, 137
Instant Replay	031, 033
JCL	031, 033
J.C. Penney	012, 013, 015, 031, 040
Jensen	043
JVC	012, 039, 043, 048, 050, 130
Kenwood	014, 039, 043, 048
Lloyd	034
LXI	013, 014, 034, 101
Magin	040
Magnavox	031, 034, 041, 067
Marantz	012, 031, 067
Marta	101
Matsui	027, 030
Mei	031, 033
Memorex	003, 010, 014, 031, 033, 034, 053, 072, 101, 134, 139
MGA	045, 046, 059
Mirrolta	013, 020
Mitsubishi	013, 020, 046, 051, 059, 061, 142
MTC	034, 040
Multitech	024, 034
Nec	012, 023, 043, 048
Normende	043
Optonica	053, 054
Panasonic	081, 070, 133, 140
Pentax	013, 020, 031, 063
Philco	031, 033, 034, 067
Philips	031, 034, 054, 067, 071, 101
Pilot	101
Pioneer	013, 021, 048
Portland	108
Prism Multimedia	572
Pulsar	072
Quartz	002, 014
Quasar	031, 075
RCA	013, 020, 041, 062, 063, 107, 109, 140, 144
Realistic	003, 008, 010, 014, 031, 033, 034, 040, 053, 054, 101
Rico	033
Salora	014
Samsung	032, 040, 102, 104, 105, 107, 109, 112, 113, 115, 120, 122, 125
Sansui	022, 043, 048, 135
Sanyo	003, 004, 007, 010, 014, 134
Scott	07, 037, 112, 129, 131
Sears	003, 008, 009, 010, 013, 014, 020, 031, 042, 073, 101
Sharp	031, 053, 054
Shintom	024
Sony	003, 031, 052, 056, 057, 058, 076, 077, 078
Soundesign	034
STS	013
Sylvania	031, 033, 034, 059, 067
Symphonic	034
Tandy	010, 034
Tatung	039, 043
Teac	034, 039, 043
Technics	031, 033
Teknika	019, 031, 033, 034, 101
Thomas	034
TMK	006
Toshiba	008, 009, 013, 047, 059, 112, 131
Totevision	040, 101
Unitech	040
Vector Research	012
Victor	048
Video Concepts	012, 034, 046, 141
Videosonic	040
Wards	003, 013, 017, 024, 031, 033, 034, 040, 053, 054, 131
Yamaha	012034, 039, 043

Brand	VCRs
Zenith	034, 048, 056, 058, 072, 101

Brand	AUX Cable Boxes
ABC	001, 003, 004, 039, 042, 046, 053
Antronix	014
Archer	005, 007, 014, 024
Cable Star	026
Century	007
Citizen	007
Colour Voice	065, 090
Combano	080, 081
Comtronics	019, 030
Culbertson	326
Diamond	023
Eagle	020, 030, 040
Eastern	057, 062, 066
Electricord	032
GE	072
Gemini	008, 022, 025, 054
GI	001, 074
Golden Channel	030
Hamlin	049, 050, 055
Hitachi	001, 055
Hospitality	070, 077
Jerrold	001, 002, 003, 004, 008, 009, 010, 069, 074
M-Net	037
Macom	033
Magnavox	010, 012, 064, 079
Memorex	052
Movie Time	028, 032
NSC	015, 028, 038, 071, 073
Oak	016, 031, 037, 053
Panasonic	044, 047
Paragon	052
Philips	006, 012, 013, 020, 065, 085, 090
Pioneer	001, 034, 051, 063, 076
Post Newsweek	016
Prism Multimedia	572
Prucer	059
Pulsar	052
RCA	047
Regal	049, 050
Regency	057
Rembrant	025
RK	091
Samsung	030, 068
Scientific Atlanta	003, 011, 041, 04, 043, 045, 046
Sheritech	022
Signal	030
Signature	001
SL Marx	030
Sprucer	017, 028
Starcom	002, 004, 000, 009
Stargate	008, 030
Sylvania	067
Tadiran	030
Tandy	017
Telecapation	021
Texscan	029, 067
Tocom	039, 040, 056
Toshiba	052
Unika	007, 014, 024
United Cable	004, 053
Universal	005, 007, 014, 024, 026, 027, 032, 035
Viewstar	012, 015, 018, 086, 087, 088, 089
Zenith	052, 060

Brand	AUX Tuners/Amps
Aiwa	111, 114, 117, 156, 170, 199, 203
Akai	181
Anam	130
Carver	107, 126, 129, 160
Casio	127
Clarinette	127
Clarion	169
Daewoo	225
Denon	101, 133
Fisher	107, 129, 163, 176
GF	123
Goldstar	110, 128
Haitai	119
Inkel	119
J.C. Penney	108, 178
Jerrold	141
JVC	112, 198
Kenwood	104, 119, 125, 148, 158, 163, 171, 173, 226
Luxman	134
LXI	123, 177
Magnavox	126, 185, 227
Marantz	105, 126, 139, 155, 162, 164, 186
MCS	108, 178
NAD	128
Onkyo	115, 116, 207, 209
Optimus	121, 125, 140
Panasonic	106, 131, 144, 187, 223
Philips	126, 136, 186, 197, 227
Pioneer	132, 138, 165, 168, 189, 195, 201, 220, 221
Prism Multimedia	572
Quasar	106, 187
RCA	109
Realistic	100, 103, 118, 122, 123, 124, 127, 172, 174, 177, 179, 180, 194
Samsung	224, 230
Sansui	126, 139, 167, 196, 204
Sanyo	157
Schneider	130
Scientific Atlanta	142
Scott	118, 180, 190
Sharp	125, 151, 158, 161, 169, 182, 191, 193, 226, 229
Sony	117, 183, 188, 192, 200, 222
Soundesign	135
Starcom	141
Symphonic	124
Teac	119, 127, 130
Technics	108, 145, 184, 187, 202, 208, 773
Techwood	130
Toshiba	175
Victor	112, 205
Wards	163
Yamaha	120, 125, 166, 169
Yorx	127

Brand	AUX Laser Discs
Daewoo	225
Denon	231, 232
Goldstar	228
Kenwood	226
Magnavox	227
Panasonic	223
Philips	227
Pioneer	221
Samsung	224, 230
Sharp	226, 229
Sony	222
Technics	223

Using the Remote Control

Once you have your codes entered, you are ready to start using your universal remote control. The device keys allow you to switch from one device to another. Some keys behave in a special way. They control one device while you are actually in another device mode. For instance, while in SAT mode, pressing Volume +/- controls your TV's volume. This is because the remote control knows that there is no volume control on the digital satellite receiver.

Advanced feature keys (i.e. **ACTION**, **EXIT**, etc.) are not supported for devices other than your digital satellite receiver. For other devices, only the primary keys (i.e. **PAUSE** and **STOP**, **POWER**, etc.) will function. For Sony-brand devices, use the "Mute" key as the "Enter" key. For RCA-brand devices, the device key (i.e. "TV" or "VCR") is the power on keys and **POWER** is the power off key.

Switching the Remote Control to Operate a Second Digital Satellite Receiver

Your remote control can be reprogrammed to operate a second digital satellite receiver to avoid signal conflicts with the first digital satellite receiver. This may be necessary in situations where two digital satellite receivers are located in the same general area where both units can "see" the remote control signals or in environments where two RF Remote Control Extenders are being used.

To switch the remote control between SAT #1 and SAT #2, simply press the "SAT" key and the "Mute" keys simultaneously. Remember to access the **ADVANCED PREFERENCES** screen on the associated digital satellite receivers to pair the remote control accordingly.

Controlling Other Components Using the AUX Button

Some additional features are available from your remote control while in the AUX mode. Take a moment to understand the special operation in this case. Note that these instructions apply exclusively to the universal remote control (HRMC-3).

Volume Control in AUX Mode

Note that when the remote control is in TV, VCR, or SAT mode, the volume keys control the sound volume for the television. When you're in AUX mode, if your auxiliary component has audio output, the volume keys control that component's sound volume. If your auxiliary component doesn't have audio output, you can program the volume button so that it continues to control the TV volume when your remote control is in AUX mode:

1. Press the "AUX" key and the "Mute" key simultaneously.
2. Press the "Volume Up" key.

Once you perform these steps, whenever your remote control is in AUX mode the volume keys will control the television volume. In the event that you reprogram the "AUX" key to control a different component at some future time, you can restore the remote control's capability to control the auxiliary component's volume by simply repeating these two steps.

VCR Function in AUX Mode

The VCR function keys (Play, Rew, FF, Stop, Pause, and Rec) on the remote control perform those VCR functions when the remote control is in TV and SAT, as well as VCR, modes. However, if you program the AUX key to control a component that does not need or use these functions, you can program the remote control to maintain VCR functionality in AUX mode.

1. Press the "AUX" key and the "Mute" key simultaneously.
2. Press the "Volume Down" key.

Once you perform these steps, whenever your remote control is in AUX mode the VCR function keys will continue to control the VCR. In the event that you reprogram the AUX key to control a different component that need use of the keys, simply repeat these two steps.

Assigning a Device to a Different Device Key

You can assign a component to a mode key that has a different label. For example, you can assign a second TV to the AUX key.

1. Begin the programming process as described earlier. (i.e. Press “TV” and “Mute” keys simultaneously or “VCR” and “Mute” keys simultaneously.)
2. Once you have established the correct code, either by scanning or direct code entry, do not press the device key to lock in your code.
3. Press the “AUX” key to store the code onto the “AUX” key

Identifying Codes that Have Been Stored

You can determine the codes that are stored in your remote control. This may be desirable to make future reprogramming of additional remote controls easier.

1. Press the device mode key and the “Mute” key simultaneously.
2. Press the  key and count the number of times the red light on the top of the remote control blinks for each digit. Each digit of the three digit code is separated by a 3-second pause, during which time the light is “off.” For example, if the code number is 021, the light will blink 10 times (for “0”), pause three seconds, blink twice, pause three seconds, and blink once.