



User's Guide for the Enterprise

ENT 6412
6-in-1 Cable TV Remote Control for Motorola® Digital Set-Top Boxes

Use this guide in conjunction with your set-top box manual

VISIT US ON THE WEB
YOU CAN FIND PROGRAMMING INSTRUCTIONS AND CODES FOR ALL OF OUR REMOTE CONTROLS, AS WELL AS INFORMATION ABOUT OUR OTHER PRODUCTS ON OUR WEBSITE: www.icxglobal.com



© 2004 ICX Global, Inc. All rights reserved. Part Number ICX18347, version 1.0 07012004

1 CONGRATULATIONS!

This 4 mode remote control has been programmed to control your Motorola set-top box and can be programmed to control up to three additional entertainment components by following these easy instructions.

The volume and channel controls are set to control the set-top box. This can be modified by following the instructions in sections 7 and 9. This remote has a master power feature for powering all components together. See details in section 8.

2 BEFORE YOU BEGIN

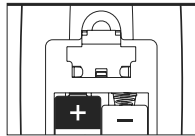
Please plug your television power cord into a separate wall outlet instead of the power outlet on the cable box.

Tune your television to channel 2, 3 or 4 as directed by your cable provider.

3 INSTALL BATTERIES

Two AA batteries must be installed before you can program or operate the remote control.

1. Remove the battery compartment cover located on the back of the remote control.
2. Place the batteries in the compartment in positions matching the picture below.
3. Replace the battery compartment cover.

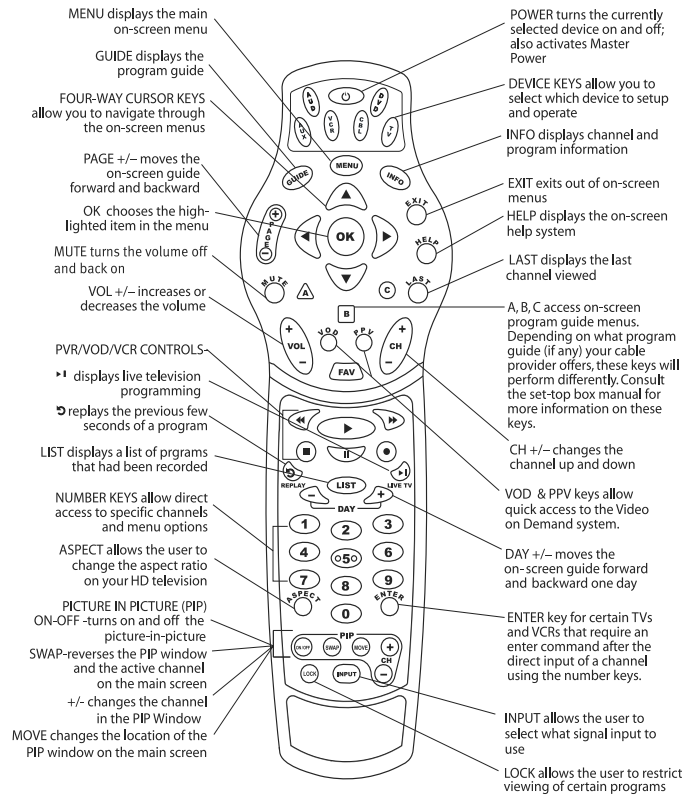


! IMPORTANT NOTE

Use only new AA Alkaline batteries to insure consistent operation

4 KNOW YOUR REMOTE

The diagram below provides a brief description of each key on your universal remote control. ICX Global provides these function descriptions as a general guide to allow you to become more familiar with your remote. Functions may vary between different services. Please refer to your set-top box manual for descriptions of specific functions.



The Enterprise remote control is already programmed with the code for your Motorola® Cable Converter. The following sections will help you program your remote to control your other entertainment components.

5 SMARTSCAN™ AUTOMATIC PROGRAMMING

The SmartScan™ programming instructions can also be found on the battery cover of the remote control. SmartScan™ will allow you to easily try all the available programming codes for the selected device and find the best match. If you prefer manual programming or already have the device codes you may also program the remote manually using the steps in section 6.

- 1 Turn on power for the device to be programmed.
- 2 Begin the SmartScan™ procedure by pressing and holding the associated device key (AUX, AUD, VCR, CBL, DVD, TV) until all device keys on the remote begin to flash (approximately 3 seconds). Release the power key.
- 3 If the device you're attempting to program matches the selected device key (e.g. TV component with the TV device key) proceed to step 5.
- 4 If the device you're attempting to program does not match the selected key (e.g. a second VCR programmed to the AUX device), locate the correct prefix code for the device you wish to program from the table listed below. Press and release the number key that matches the prefix code.

Prefix	Device
0	TV
1	VCR/DVD/PVR
4	Audio Receivers
5	Combo Units

- 5 Press and release the POWER key. The device key will stop flashing and remain on.
- 6 Point the remote control at the selected device.
- 7 Press and hold the UP ARROW key until the device turns off. While holding the UP ARROW key the remote will send a new code approximately once every second. The device button will blink each time a new code is sent. If you pass the code that turns off the device, press the DOWN ARROW key to return to the previous code.
- 8 When the device turns off, you have found a candidate code. Press the POWER Key to turn device back on. Test various functions using the remote control to determine if this code will work. If primary functions do not work, make sure the device is still on then resume SmartScan™ by pressing the UP ARROW key to find another device code.
- 9 Once you have found a satisfactory code, press OK to lock the code. The power of the device must be on. The device key will then flash three times. Go to section 10 to recall and record your device codes. When all the codes have been attempted the device button will flash rapidly.

6 MANUAL PROGRAMMING

To manually set up the Enterprise to operate a device, find the manufacturer of the device in the list of manufacturers' codes. The codes are logically grouped by device type in section 12. Then perform the following steps:

- 1 Press and hold the device key to be programmed until all device keys begin to flash (approximately 3 seconds). Release the key. The selected device key will continue to flash.
- 2 Enter the four digit code for the desired device using the number keys. After pressing the first digit, the device key will then flash three times. Go to section 10 to recall and record your device codes. When all the codes have been attempted the device button will flash rapidly.

- 3 Test the code by trying various functions. If the primary function keys fail to respond satisfactorily try the next code listed for the manufacturer.

If you have tried all the codes listed for the manufacturer and the device does not respond, try to program the device using SmartScan™ as described in section 5. Remember to record your device codes in section 11 when you are done.

7 PROGRAMMING VOLUME CONTROL

By default, your Enterprise remote controls cable volume through the Cable Box, and the VCR and DVD through the Television. To allow volume control through a different device:

- 1 Press and hold the CBL device key until all the device keys begin to flash. Release the CBL key. The CBL key will continue to flash.
- 2 Press and release the VOLUME UP key, the CBL key will remain on.
- 3 Press and release the VOLUME DOWN key. The CBL key will turn off when VOLUME DOWN is pressed, and will turn on when released.
- 4 Press and release the key corresponding to the device you wish to use to control volume. (TV or AUD) After you release the key, the CBL key will flash three times and turn off.

To return volume control to the default state:

- 1 Press and hold the CBL device key until all the device keys begin to flash. Release the CBL key. The CBL key will continue to flash.
- 2 Press and release the VOLUME UP key. The CBL device key will stop flashing and stay on. Press and release the VOLUME DOWN key, and then press and release the OK key. After you release the OK key, the CBL device key will flash three times and turn off.

8 MASTER POWER CONTROL

The Master Power function allows you to turn off and on two or more devices simultaneously with a single press of the power button. The following steps describe how to program the Master Power Control function:

- 1 Press and hold the CBL device key until all the device keys begin to flash. Release the CBL key. The CBL key will continue to flash.
- 2 Press and release the POWER key.
- 3 Individually press and release each device key corresponding to the components you wish to be controlled by Master Power (starting with the cable device key). NOTE: If no keys are pressed in this step, no change will occur in Master Power programming.
- 4 Press and release the POWER key. The CBL key will flash three times and turn off.
- 5 Manually turn on all devices. Then test the Master Power control by pressing the POWER key.

To disable Master Power, repeat the previous steps selecting only one device for Master Power (any device can be selected). The remote will now control the power ON/OFF of each device separately.

NOTE: Once Master Power has been programmed for two or more devices, pressing the POWER key in normal operation will cause the remote to transmit the POWER on/off commands for those devices selected during Master Power programming.

To override this and transmit a POWER on/off command for a device not included in the Master Power selection, press the DEVICE key for that device and immediately press the POWER key.

9 CHANNEL LOCK

Channel Lock causes channel up and down functions to always operate the set-top box independent of the device (TV, CBL, VCR, DVD or AUD) currently selected. The Enterprise comes with Channel Lock activated. If you want the remote control to operate the channel function on your TV or VCR, you will need to deactivate Channel Lock:

- Press and hold the CBL device key until all the device keys begin to flash (approximately 3 seconds). Release the CBL key. The CBL key will continue to flash.
- Press and release the CHANNEL UP key.
- Press and release the CHANNEL DOWN key.
- Press the OK key. The CBL device key will flash three times to confirm the procedure.
Repeat these steps to reactivate Channel Lock.

10 RECALLING A DEVICE CODE

Use the following steps to read the code set for a device. This is useful for determining a device code that was set using the Smart Scan™ procedure described in section 4.

- Press and hold the device key to be read until all device keys begin to flash (approximately 3 seconds). Release the key. The selected device key will continue to flash.
- Press and release the OK key. The device key flashes each of the four digits in the code. A pause separates each digit. For example, three flashes represent the number 3, and a rapid flicker represents 0. A code of 1032 will be shown as:

FLASH <pause> FLICKER <pause> FLASH... FLASH... FLASH
<pause> FLASH... FLASH

Count and record the sequence of flashes to determine the four-digit code.

11 RECORD YOUR DEVICE CODES

Now that you have programmed your remote control, write the codes below for later reference:

TV Code: _____ AUD Code: _____
VCR Code: _____ DVD Code: _____
AUX Code: _____ (device _____)

If necessary use the recall instructions to determine the code.

Any of the AV components listed in SECTION 12 can be programmed to any device key by following the steps above. Note: VCR and DVD devices require a TV first be programmed to one of the device keys.

TELEVISION CODES (CONT.)

Daewoo	0005 • 0023 • 0024 • 0026 • 0029	0026 • 0043 • 0044 • 0096 • 0125
Denon	0030 • 0036 • 0130 • 0132 • 0149	0131 • 0134 • 0149 • 0165 • 0166
Daytron	0024 • 0026 • 0197 • 0194 • 0224	0172 • 0194 • 0207 • 0224
Demco	0125	0096
Dimensia	0125	0041
Dixi	0120 • 0146	0224 • 0225
Dumont	0081	0026 • 0163
Electrohome	0026 • 0149 • 0224	0006 • 0163
Emerson	0017 • 0023 • 0026 • 0028 • 0037	0022 • 0109 • 0175
Funai	0034 • 0035 • 0037 • 0038 • 0039	0003 • 0010 • 0066 • 0090 • 0114
Funai	0041 • 0090 • 0122 • 0132 • 0141	0125 • 0129 • 0131 • 0132 • 0134
Funai	0143 • 0163 • 0171 • 0172 • 0176	0151 • 0172 • 0173 • 0174 • 0175
Funai	0181 • 0203 • 0222 • 0224 • 0225 • 0227	0181
Envision	0039	0034
Fisher	0042 • 0090 • 0093	0042
Fujitsu	0034	0034
Funai	0024 • 0034 • 0041 • 0132	0034
Fututech	0003 • 0008 • 0009 • 0023	0003
General Electric	0003 • 0008 • 0009 • 0023	0003 • 0008 • 0009 • 0023
General Electric	0043 • 0044 • 0125 • 0130	0134 • 0143 • 0163 • 0165
General Electric	0170 • 0172 • 0182 • 0207 • 0211	0005 • 0006 • 0010 • 0016 • 0023
Goldstar	0005 • 0023 • 0026 • 0028 • 0045	0046 • 0088 • 0120 • 0146 • 0163
Granada	0168 • 0172 • 0173 • 0194 • 0224 • 0225	0060
Gradiente	0060	0060
Grundy	0023 • 0172	0023 • 0172
Hinari	0034 • 0146	0034 • 0146
Hitachi	0005 • 0018 • 0023 • 0024 • 0025	0044 • 0048 • 0049 • 0050 • 0051
Hitachi	0052 • 0053 • 0054 • 0055 • 0126	0169 • 0172 • 0194 • 0210 • 0224 • 0225
Infinity	0010 • 0068 • 0131	0010 • 0068 • 0131
JBL	0010 • 0066 • 0131	0010 • 0066 • 0131
JC Penney	0003 • 0005 • 0006 • 0014 • 0016	0003 • 0005 • 0006 • 0014 • 0016

VCR/DVD/PERSONAL VIDEO RECORDER CODES

ASA	1065 • 1158	1065 • 1158
Admiral	1056 • 1088 • 1179 • 1202	1056 • 1088 • 1179 • 1202
Alfa	1008 • 1013 • 1014 • 1015 • 1016	1008 • 1013 • 1014 • 1015 • 1016
Akai	1018 • 1019 • 1020 • 1068 • 1086 • 1163	1018 • 1019 • 1020 • 1068 • 1086 • 1163
Alba	1046	1046
American High	1054 • 1158	1054 • 1158
Amstrad	1085 • 1089 • 1127	1085 • 1089 • 1127
Apex Digital	1221	1221
Audio Dynamics	1013 • 1030 • 1046 • 1086	1013 • 1030 • 1046 • 1086
Audionov	1056	1056
Bell & Howell	1049 • 1081 • 1147	1049 • 1081 • 1147
Benetton	1005 • 1008 • 1059 • 1148	1005 • 1008 • 1059 • 1148
Bush	1089	1089
CCE	1176	1176
Candide	1042 • 1046 • 1054 • 1056	1042 • 1046 • 1054 • 1056
Canon	1042 • 1054 • 1154 • 1158	1042 • 1054 • 1154 • 1158
Capehart	1046	1046
Carver	1065 • 1136	1065 • 1136
Cineral	1076	1076
Citizen	1034 • 1046 • 1056 • 1091 • 1092	1034 • 1046 • 1056 • 1091 • 1092
Craig	1044 • 1056 • 1082 • 1091	1044 • 1056 • 1082 • 1091
Curtis Mathes	1092 • 1105 • 1114 • 1139 • 1154 • 1158	1092 • 1105 • 1114 • 1139 • 1154 • 1158
DBX	1013 • 1030 • 1046 • 1086	1013 • 1030 • 1046 • 1086
Daewoo	1034 • 1046 • 1049 • 1150 • 1176	1034 • 1046 • 1049 • 1150 • 1176
Daytron	1094 • 1185 • 1227 • 1235	1094 • 1185 • 1227 • 1235
Demco	1094 • 1185 • 1227 • 1235	1094 • 1185 • 1227 • 1235
Dimensia	1094	1094
Dixi	1094	1094
Dumont	1094	1094
Dynatech	1034 • 1088 • 1127	1034 • 1088 • 1127
Electrohome	1056 • 1068	1056 • 1068
Emerson	1005 • 1006 • 1008 • 1009 • 1011	1005 • 1006 • 1008 • 1009 • 1011
Emerson	1012 • 1034 • 1056 • 1059 • 1068	1012 • 1034 • 1056 • 1059 • 1068
Emerson	1070 • 1088 • 1090 • 1114 • 1088	1070 • 1088 • 1090 • 1114 • 1088
Ferguson	1150 • 1169 • 1176 • 1192 • 1215	1150 • 1169 • 1176 • 1192 • 1215
Finlandia	1205	1205
Filux	1049 • 1065 • 1088 • 1159	1049 • 1065 • 1088 • 1159
Fisher	1048 • 1049 • 1081 • 1082 • 1084	1048 • 1049 • 1081 • 1082 • 1084
Fujitsu	1189 • 1237	1189 • 1237
Funai	1054 • 1158	1054 • 1158
Funai	1054 • 1158	1054 • 1158

12 MANUFACTURER CODES

AUDIO RECEIVER CODES

Admiral	4185	Jensen	4114 • 4206
Alfa	4020 • 4033 • 4103 • 4104	Kenwood	4058 • 4059 • 4083 • 4087
Alfa	4149 • 4150 • 4151 • 4152 • 4173	Kenwood	4135 • 4162 • 4214
Alka	4075 • 4119	LXI	4021
Alsa	4020 • 4211	Lloyd's	4170
Carver	4022 • 4083 • 4091	MCS	4021
Casio	4093 • 4147	Magnavox	4028 • 4119 • 4170 • 4210
Cinema Sound	4021 • 4170	Marantz	4015 • 4074 • 4081 • 4086
Citation	4036	Memorex	4091 • 4093 • 4099 • 4120 • 4171
Claron	4052 • 4110	Mitsubishi	4045 • 4082
Curtis Mathes	4021	Modulaire	4170
Denon	4036 • 4106 • 4107 • 4108	NAD	4099
Denon	4109 • 4110 • 4111	Nakamichi	4074 • 4084 • 4157 • 4217
Fisher	4083 • 4087 • 4147 • 4158	Onkyo	4050 • 4061 • 4071 • 4085
Garrard	4075	Onkyo	4096 • 4124 • 4218 • 4219
Harman Kardon	4052 • 4113	Optimus	4037 • 4059 • 4075
Hitachi	4160 • 4212	Panasonic	4038 • 4126 • 4177 • 4200
Hitachi	4110	Parasound	4178
JBL	4078 • 4161	Philips	4015 • 4086 • 4093 • 4181
JC Penney	4021 • 4170	Pioneer	4023 • 4088 • 4187 • 4221
JVC	4041 • 4043 • 4044 • 4079	RCA	4053 • 4063 • 4119 • 4129 • 4130

TV/DVD & TV/VCR COMBO CODES

NOTE: Certain combo boxes (single devices that have more than one component built in) must be treated as separate discrete devices. If you are not able to control your combo box with the codes listed below please try to code setup each device (TV, VCR, DVD) separately using the codes found in the corresponding sections.

Alfa	5251	Marta	5223
Audio Dynamics	5238	Memorex	5223 • 5242 • 5244
Broskonic	5219 • 5226 • 5228	Mitsubishi	5239 • 5240
Curtis Mathes	5241 • 5251	Optimus	5242
DBX	5240 • 5251	Orion	5219 • 5226
Daewoo	5247 • 5250 • 5252	Panasonic	5241 • 5242 • 5251
Electrohome	5240	Philco	5236 • 5237 • 5255
Emerson	5219 • 5223 • 5226 • 5251	Philips	5223 • 5236 • 5237 • 5251
Emerson	5252 • 5253	Pioneer	5235
Funai	5251	Proscan	5233
General Electric	5233 • 5241 • 5248	Pulsar	5248
Goldstar	5223 • 5230 • 5238	Quasar	5241 • 5242
Harman Kardon	5238	RCA	5233 • 5241 • 5251
Hitachi	5241 • 5251	Radio Shack	5230 • 5242 • 5251
JC Penney	5223 • 5238 • 5241 • 5242	Realistic	5235 • 5251
JVC	5235 • 5238	Runco	5246
Kenwood	5235 • 5251	Samsung	5221 • 5229 • 5244
LXI	5223 • 5251	Sanyo	5219 • 5235 • 5251
MGA	5240	Sanyo	5244
MTC	5251		
Magnavox	5236 • 5237 • 5241 • 5251		
Marantz	5237 • 5238		

TELEVISION CODES

AOC	0005 • 0006 • 0019 • 0020 • 0023 • 0024	Anam National	0021
Admiral	0003 • 0018 • 0034 • 0041 • 0090	Archel	0022
Admiral	0125 • 0129 • 0176	Audionov	0024 • 0041 • 0120 • 0170
Aiko	0090	Bell & Howell	0018 • 0034 • 0090 • 0129
Alfa	0090	Benetton	0005 • 0010 • 0174 • 0176
Alka	0000 • 0032 • 0070 • 0149 • 0163 • 0172	CXC	0041
Alson	0120 • 0224 • 0225	Candide	0005 • 0006 • 0023 • 0026
Amark	0120 • 0224 • 0225	Capehart	0019
Amstrad	0033 • 0132	Carver	0151
Anam	0005 • 0009 • 0021 • 0041 • 0130 • 0121		
Mitsubishi	0004 • 0005 • 0023 • 0034 • 0070		
Mitsubishi	0071 • 0072 • 0122 • 0123 • 0129		
Multitech	0149 • 0172 • 0173 • 0192 • 0194		
NEC	0005 • 0006 • 0007 • 0009 • 0023		
NEC	0028 • 0090 • 0141 • 0149 • 0163		
National	0008 • 0011 • 0151 • 0190		
Nikkai	0011 • 0191 • 0192 • 0194		
Optimus	0012 • 0090 • 0166		
Optonica	0012 • 0146		
Orion	0037 • 0146 • 0176		
Osune	0001 • 0091		
Panasonic	0008 • 0009 • 0010 • 0011 • 0017		
Philco	0005 • 0006 • 0009 • 0010 • 0024		
Philips	0025 • 0067 • 0068 • 0114 • 0149		
Philips	0005 • 0010 • 0023 • 0027 • 0066		
Pioneer	0002 • 0008 • 0048 • 0051 • 0076		
Portland	0005 • 0024 • 0025 • 0027		
Proscan	0006 • 0013 • 0120 • 0172 • 0224		
Pulsar	0001 • 0024		
RCA	0008 • 0009 • 0011 • 0120 • 0121		
RCA	0003 • 0005 • 0008 • 0009 • 0014		
RCA	0028 • 0048 • 0078 • 0079 • 0080		
RCA	0082 • 0084 • 0086 • 0087 • 0125		
Realistic	0035 • 0041 • 0090 • 0112 • 0141		
Realistic	0163 • 0172 • 0194 • 0224 • 0224		
Runco	0001 • 0163		
SBS	0005 • 0041		
Saba	0032 • 0033 • 0051		
Sanyo	0006 • 0019 • 0163 • 0192 • 0194		
Samsung	0005 • 0006 • 0016 • 0023 • 0026		
Sanyo	0039 • 0088 • 0112 • 0146 • 0151		
Sanyo	0157 • 0158 • 0163 • 0167 • 0172		
Sanyo	0173 • 0192 • 0194 • 0224 • 0225		
Sanyo	0041 • 0042 • 0089 • 0090 • 0091		
Scott	0026 • 0034 • 0037 • 0041 • 0149		
Scott	0172 • 0173 • 0192 • 0194 • 0224		
Sears	0003 • 0010 • 0016 • 0023 • 0034		
Sears	0042 • 0090 • 0096 • 0098 • 0099		
Sears	0102 • 0104 • 0117 • 0125 • 0131		
Sears	0132 • 0134 • 0151 • 0172 • 0184		
Sears	0194 • 0224 • 0225		
Signature	0026 • 0091 • 0129 • 0141 • 0200		
Signature	0018 • 0129 • 0151		
Signature	0001 • 0189		
Signature	0023 • 0025 • 0034 • 0041 • 0172		
Sony	0001 • 0120		
Sony	0022 • 0023		
Sylvania	0006 • 0010 • 0024 • 0025 • 0046		
Sylvania	0068 • 0110 • 0112 • 0132 • 0151		
Sylvania	0163 • 0172 • 0173 • 0175 • 0192 • 0194		

Realistic	4018 • 4072 • 4170 • 4185	Scott	5247
Rotel	4019 • 4233 • 4234	Sears	5223 • 5251
Sansui	4015 • 4016 • 4063 • 4074	Signature	5251
Sansui	4133 • 4223 • 4224	Sony	5232
Sanyo	4083 • 4147	Soundesign	5251
Sears	4021	Sylvania	5237 • 5240 • 5251
Sharp	4059 • 4106 • 4135 • 4239	Symphonic	5251
Sony	4000 • 4001 • 4002 • 4003	Tandy	5251
Sony	4004 • 4005 • 4006 • 4007	Teac	5251