



# User's Guide for the Enterprise

ENT 6412

4-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 ICX18346, 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 cable converter. 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

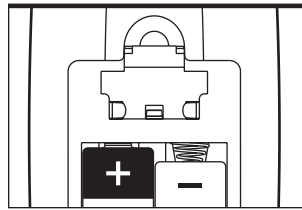
Please plug your television power cord into a separate wall outlet instead of the power outlet on the cable box.

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.

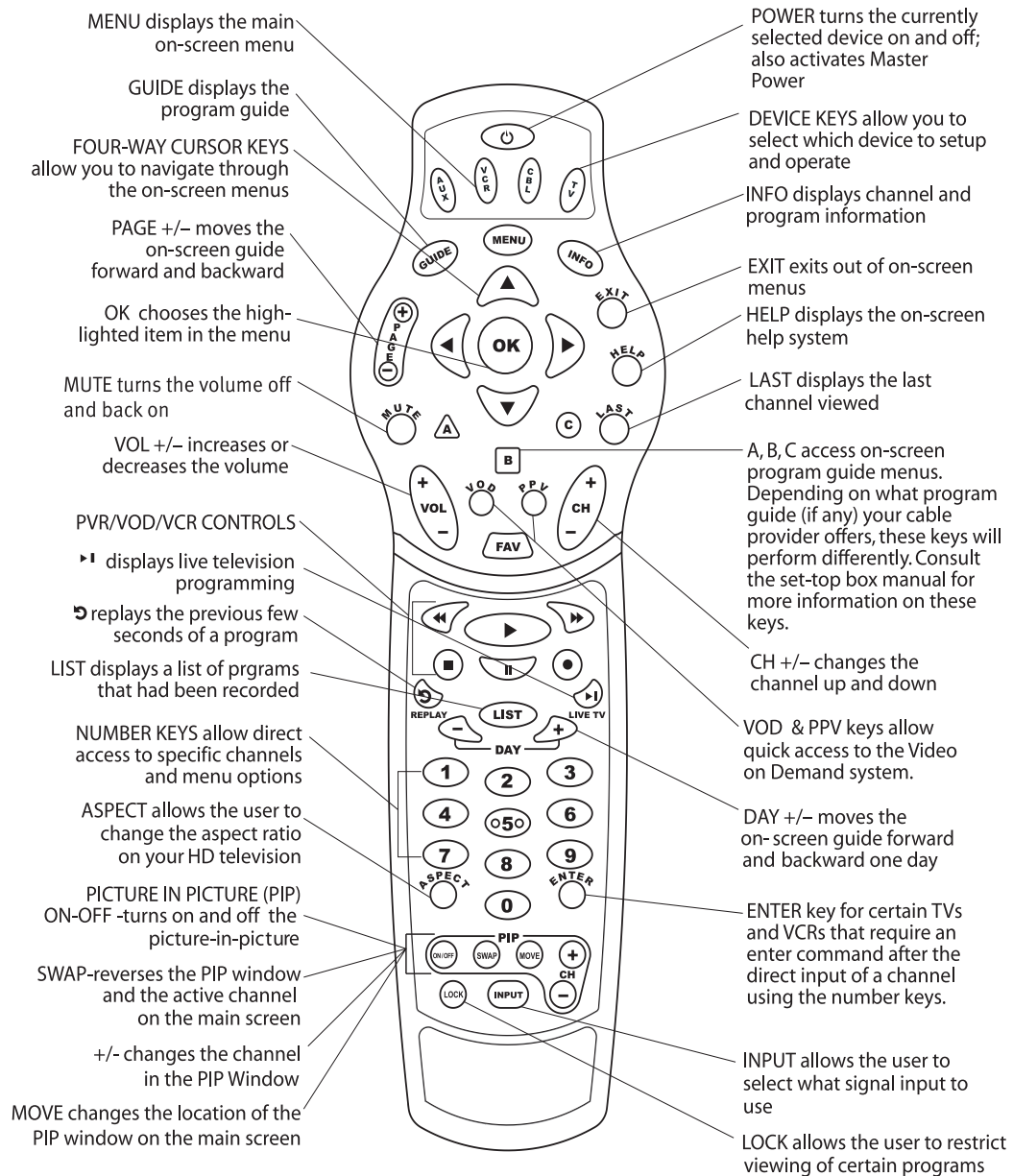


## ! IMPORTANT NOTE

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, VCR, CBL, TV) until all device keys on the remote begin to flash (approximately 3 seconds). Release the power key.
- 3 If the device you're are 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 are 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 should light and remain on. If the programming is successful. After the last digit is pressed the device key should flash three times and turn off.

## 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:

- 1 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.
- 2 Press and release the CHANNEL UP key.
- 3 Press and release the CHANNEL DOWN key.
- 4 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.

- 1 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.
- 2 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 0030 • 0032 • 0130 • 0146 • 0170 0171 • 0172 • 0224	0026 • 0043 • 0044 • 0096 • 0125 0131 • 0134 • 0149 • 0163 • 0165 0172 • 0194 • 0207 • 0224
Daytron	0024 • 0026 • 0192 • 0194 • 0224	
Denon	0169	
Dimensia	0125	
Dixi	0120 • 0146	
Dumont	0001	
Electrohome	0026 • 0149 • 0224	
Emerson	0017 • 0023 • 0026 • 0028 • 0033 0034 • 0035 • 0037 • 0038 • 0039 0041 • 0090 • 0122 • 0132 • 0141 0143 • 0163 • 0171 • 0172 • 0176 0181 • 0203 • 0222 • 0224 • 0225 • 0227	0006 • 00163 0022 • 0110 • 0175
Envision	0163	
Fisher	0042 • 0090 • 0099	
Fujitsu	0034	
Funai	0024 • 0034 • 0041 • 0132	
Futurtech	0041	
General Electric	0003 • 0008 • 0009 • 0023 0043 • 0044 • 0125 • 0130 0134 • 0143 • 0163 • 0165 0046 • 0088 • 0120 • 0146 • 0163 0168 • 0172 • 0173 • 0194 • 0224 • 0225	0004 • 0005 • 0006 • 0023 • 0034 • 0071 0072 • 0149 • 0163 • 0172 • 0192 • 0194
Goldstar	0170 • 0023 • 0026 • 0028 • 0045 0046 • 0088 • 0120 • 0146 • 0163 0168 • 0172 • 0173 • 0194 • 0224 • 0225	0004 • 0005 • 0006 • 0023 • 0034 • 0071 0072 • 0149 • 0163 • 0172 • 0192 • 0194
Gradiente	0060	
Granada	0146	
Hallmark	0023 • 0172	
Hinari	0034 • 0146	
Hitachi	0005 • 0018 • 0023 • 0024 • 0026 0044 • 0048 • 0049 • 0050 • 0051 0052 • 0053 • 0054 • 0055 • 0126 0169 • 0172 • 0194 • 0210 • 0224 • 0225	0006 • 00163 0022 • 0110 • 0175
Infinity	0010 • 0066 • 0151	
JBL	0010 • 0066 • 0151	
JC Penney	0003 • 0005 • 0006 • 0014 • 0016	

## VCR/DVD/PERSONAL VIDEO RECORDER CODES

ASA	1065 • 1159	
Admiral	1085 • 1178	
Aiwa	1056 • 1088 • 1179 • 1202	
Akai	1008 • 1013 • 1014 • 1015 • 1016 1018 • 1019 • 1020 • 1068 • 1086 • 1163	
Alba	1046	
American High	1054 • 1158	
Amstrad	1088	
Apex Digital	1221	
Audio Dynamics	1013 • 1030 • 1046 • 1086	
Audiovox	1056	
Bell & Howell	1049 • 1081 • 1177	
Broksonic	1005 • 1008 • 1059 • 1148	
Bush	1089	
CCE	1176	
Candle	1042 • 1046 • 1054 • 1056 1091 • 1092	
Canon	1042 • 1054 • 1154 • 1158	
Capehart	1046	
Carver	1065 • 1136	
Cineral	1176	
Citizen	1034 • 1046 • 1056 • 1091 • 1092 1044 • 1056 • 1082 • 1091	
Craig	1034 • 1051 • 1054 • 1088	
Curtis Mathes	1092 • 1105 • 1114 • 1139 • 1154 • 1158	
DBX	1013 • 1030 • 1046 • 1086	
Daewoo	1034 • 1046 • 1049 • 1150 • 1176	
Daytron	1046	
Denon	1094 • 1185 • 1227 • 1235	
Dimensia	1105	
Dual	1086	
Dumont	1049	
Dynatech	1034 • 1088 • 1161	
Electrohome	1056 • 1068	
Emerson	1005 • 1006 • 1008 • 1009 • 1011 1012 • 1034 • 1056 • 1059 • 1068 1070 • 1088 • 1090 • 1132 • 1148 1150 • 1169 • 1176 • 1192 • 1215	
Ferguson	1205	
Finlandia	1049	
Finlux	1049 • 1065 • 1088 • 1159	
Fisher	1048 • 1049 • 1081 • 1082 • 1084 1189 • 1237	
Fuji	1054 • 1158	
Funai	1088	

General Electric	1025 • 1033 • 1050 • 1051 1052 • 1054 • 1091 • 1105 1133 • 1139 • 1154 • 1158 1167 • 1174 • 1178 • 1194 • 1205	
Go Video	1057 • 1058 • 1091 • 1164 • 1165	
Goldstar	1030 • 1033 • 1056 • 1092 • 1196 1203	
Goodmans	1085 • 1089 • 1161	
Gradiente	1061 • 1062 • 1088	
Granada	1049 • 1081	
Grundig	1065 • 1159	
HQ	1034	
Harman Kardon	1030 • 1065 • 1069 • 1136 • 1231	
Hinari	1089	
Hitachi	1013 • 1037 • 1038 • 1040 • 1086 1088 • 1094 • 1095 • 1139 • 1181 1187	
ITT	1018 • 1086	
JC Penney	1030 • 1046 • 1050 • 1052 • 1054 1056 • 1081 • 1091 • 1092 • 1094 1114 • 1139 • 1154 • 1158	
JVC	1030 • 1046 • 1061 • 1062 • 1063 1064 • 1081 • 1086 • 1092 • 1117 1123 • 1158 • 1168	
jensen	1013 • 1086	
KLH	1187	
Kenwood	1046 • 1062 • 1081 • 1086 1088 • 1092 • 1119	
Kodak	1056 • 1158	
LXI	1034 • 1056 • 1081 • 1088 • 1094	
Lloyd	1088	
Logik	1089	
Luxor	1018	
MEI	1054 • 1158	
MGA	1068 • 1070 • 1169	
MTC	1088 • 1091	
Magnavox	1027 • 1033 • 1034 • 1050 • 1054 1065 • 1076 • 1085 • 1088 • 1111 1120 • 1130 • 1136 • 1137 • 1138 1139 • 1158 • 1159 • 1215 • 1220 • 1226	
Magnin	1091	
Marantz	1030 • 1046 • 1054 • 1065 • 1081 1085 • 1092 • 1136 • 1139 • 1158 1159 • 1161 • 1226	
Marta	1056	
Matsui	1088	

## 12 MANUFACTURER CODES

### AUDIO RECEIVER CODES

Admiral	4185
Aiwa	4020 • 4033 • 4103 • 4104 4149 • 4150 • 4151 • 4152 • 4173
Akai	4075 • 4119
Bose	4020 • 4211
Carver	4022 • 4083 • 4091 4093 • 4147
Casio	4021 • 4170
Cinema Sound	4036
Citation	4052 • 4212
Clarion	4059
Curtis Mathes	4021
Denon	4036 • 4106 • 4107 • 4108 4109 • 4110
Fisher	4083 • 4087 • 4147 • 4158
Garrard	4075
Harman Kardon	4052 • 4113 4160 • 4212
Hitachi	4110
JBL	4078 • 4161
JC Penney	4021 • 4170
JVC	4041 • 4043 • 4044 • 4079

Jensen	4114 • 4206
Kenwood	4058 • 4059 • 4083 • 4087 4135 • 4162 • 4214
LXI	4021
Lloyds	4170
MCS	4021
Magnavox	4028 • 4119 • 4170 • 4210
Marantz	4015 • 4074 • 4081 • 4086 4091 • 4093 • 4099 • 4120 • 4171
Memorex	4151
Mitsubishi	4045 • 4082
Modulaire	4170
NAD	4099
Nakamichi	4074 • 4084 • 4157 • 4217
Onkyo	4050 • 4061 • 4071 • 4085 4096 • 4124 • 4218 • 4219
Optimus	4037 • 4059 • 4075
Panasonic	4038 • 4126 • 4177 • 4200
Parasound	4178
Philips	4015 • 4086 • 4093 • 4181
Pioneer	4023 • 4088 • 4187 • 4221
RCA	4053 • 4063 • 4119 • 4129 • 4130 4158 • 4184 • 4222

Realistic	4018 • 4072 • 4170 • 4185
Rotel	4019 • 4233 • 4234
Sansui	4015 • 4016 • 4063 • 4074 4133 • 4223 • 4224
Sanyo	4083 • 4147
Sears	4021
Sharp	4059 • 4106 • 4135 • 4239
Sony	4000 • 4001 • 4002 • 4003 4004 • 4005 • 4006 • 4007
Sound Stream	4027 • 4030
Teac	4058 • 4074 • 4075 • 4090 4223 • 4225 • 4226
Technics	4056 • 4057 • 4126 4177 • 4199 • 4200
Vector Research	4171 • 4202
Wards	4083
Yamaha	4053 • 4059 • 4145 • 4180 4203 • 4204 • 4227
Yorx	4170
Zenith	4205 • 4206 • 4228

### 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.

Aiwa	5251
Audio Dynamics	5238
Broksonic	5219 • 5226 • 5228
Curtis Mathes	5241 • 5251
DBX	5238
Daewoo	5247 • 5250 • 5252
Electrohome	5240
Emerson	5219 • 5223 • 5226 • 5251 5252 • 5253
Funai	5251
General Electric	5233 • 5241 • 5248
Goldstar	5223 • 5230 • 5238
Harman Kardon	5238
Hitachi	5241 • 5251
JC Penney	5223 • 5238 • 5241 • 5242
JVC	5235 • 5238
Kenwood	5235 • 5251
LXI	5223 • 5251
MGA	5240
MTC	5251
Magnavox	5236 • 5237 • 5241 • 5251
Marantz	5237 • 5238

Marta	5223
Memorex	5223 • 5242 • 5244
Mitsubishi	5239 • 5240
Multitech	5251
Optimus	5242
Orion	5219 • 5226
Panasonic	5241 • 5242 • 5255
Philco	5236 • 5237 • 5251
Philips	5223 • 5236 • 5237 • 5251
Pioneer	5235
Proscan	5233
Pulsar	5248
Quasar	5241 • 5242
RCA	5233 • 5241 • 5251
Radio Shack	5230 • 5242 • 5251
Realistic	5223 • 5251
Runco	5243
Samsung	5221 • 5229 • 5244 5246 • 5247
Sansui	5219 • 5235 • 5251
Sanyo	5244

Scott	5247
Sears	5223 • 5251
Signature	5251
Sony	5232
Soundesign	5251
Sylvania	5237 • 5240 • 5251
Symphonic	5251
Tandy	5251
Teac	5251
Technics	5242
Teknika	5223 • 5251
Toshiba	5228 • 5240 • 5247
Totevision	5223
Vector Research	5238
Victor	5235
Video Concepts	5238 • 5251
Wards	5251
Yamaha	5238 • 5251
Zenith	5219 • 5223 • 5235 • 5248 5249 • 5251

### TELEVISION CODES

AOC	0005 • 0006 • 0019 • 0020 • 0023 • 0024 0120 • 0140 • 0163 • 0173
Admiral	0003 • 0018 • 0034 • 0041 • 0090 0125 • 0129 • 0176
Aiko	0024
Aiwa	0090
Akai	0000 • 0032 • 0070 • 0149 • 0163 • 0172
Alaron	0034
Amark	0120 • 0224 • 0225
Amstrad	0033 • 0132
Anam	0005 • 0009 • 0021 • 0041 • 0120 • 0121

Anam National	0211
Archer	0120
Audiovox	0024 • 0041 • 0120 • 0170
Bell & Howell	0018 • 0034 • 0090 • 0129
Broksonic	0005 • 0010 • 0172 • 0173 0174 • 0176
CXC	0041
Candle	0005 • 0006 • 0022 • 0023 0025 • 0163
Capehart	0019
Carver	0151

Centurion	0028 • 0192 • 0194
Citizen	0005 • 0006 • 0010 • 0016 • 0018 0022 • 0023 • 0024 • 0025 • 0026 0163 • 0172 • 0224
Concerto	0005 • 0010 • 0023
Contec	0041 • 0054 • 0091 • 0181 • 0227
Corando	0224
Coronado	0225
Craig	0021 • 0041 • 0203
Crown	0026 • 0041 • 0059 • 0090 0125 • 0131 • 0151 • 0163 0172 • 0192 • 0194 • 0224
Curtis Mathes	0006 • 0016 • 0018 • 0023 0026 • 0041 • 0059 • 0090 0125 • 0131 • 0151 • 0163 0172 • 0192 • 0194 • 0224

Mitsubishi	0004 • 0005 • 0023 • 0034 • 0070 0071 • 0072 • 0122 • 0123 • 0129 0149 • 0172 • 0173 • 0192 • 0194
Multitech	0041
NAD	0002 • 0117 • 0131 • 0166 • 0172
NEC	0005 • 0006 • 0007 • 0009 • 0023 0028 • 0090 • 0141 • 0149 • 0163 0172 • 0173 • 0191 • 0192 • 0194
National	0008 • 0011 • 0151 • 0190 0196 • 0211
Nikkai	0113 • 0118 • 0146
Onwa	0041
Optimus	0012 • 0090 • 0166
Optonica	0129 • 0141
Orion	0037 • 0146 • 0176
Osume	0091
Panasonic	0008 • 0009 • 0010 • 0011 • 0012 0066 • 0151 • 0165 • 0196 • 0211 0005 • 0006 • 0009 • 0010 • 0024 0025 • 0067 • 0068 • 0110 • 0149 0151 • 0163 • 0169 • 0172 • 0175 0176 • 0224 • 0225
Philco	0005 • 0006 • 0009 • 0010 • 0024 0025 • 0067 • 0068 • 0110 • 0149 0151 • 0163 • 0169 • 0172 • 0175 0176 • 0224 • 0225
Philips	0005 • 0010 • 0025 • 0027 • 0066 0068 • 0088 • 0146 • 0151 • 0163 0164 • 0220 • 0225
Pioneer	0002 • 0008 • 0048 • 0051 • 0076 0131 • 0166
Portland	0005 • 0024 • 0026 • 0172 0224 • 0225
Proscan	0125 • 0172
Proton	0006 • 0013 • 0019 • 0023 • 0026 0120 • 0172 • 0224
Pulsar	0001 • 0024
Quasar	0008 • 0009 • 0012 • 0165 • 0211 0003 • 0005 • 0008 • 0009 • 0014 0028 • 0048 • 0078 • 0079 • 0080 0082 • 0084 • 0086 • 0087 • 0125

Radio Shack	0003 • 0026 • 0041 • 0072 0090 • 0112 • 0141 • 0172 0173 • 0194 • 0224
Realistic	0035 • 0041 • 0090 • 0112 • 0141 0163 • 0172 • 0194 • 0222 • 0224
Runco	0001 • 0163
SSS	0005 • 0041
Saba	0051
Saisho	0032 • 0033 • 0109
Sampo	0006 • 0019 • 0163 • 0192 • 0194
Samsung	0005 • 0006 • 0016 • 0023 • 0026 0032 • 0088 • 0112 • 0146 • 0155 0157 • 0158 • 0163 • 0167 • 0172 0173 • 0192 • 0194 • 0224 • 0225
Sansui	0176
Sanyo	0041 • 0042 • 0089 • 0090 • 0091 0092 • 0109 • 0184 • 0194