



User's Guide for the



UJ4EXP

4-in-1 Cable TV Remote Control for Scientific-Atlanta® Explorer 2000 & 3000 Converters

Use this guide in conjunction with your cable converter 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.uselectronics.com



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Part Number USE18238, version 1.0
112602

1 BEFORE YOU BEGIN

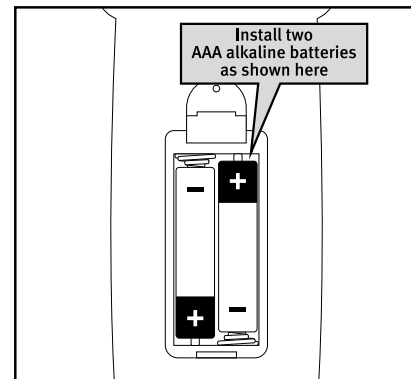
If you have a TV with a remote control, we recommend that you plug its power cord directly into an available outlet (your cable installer may select an alternate setup).

Make sure to set your TV to channel 2, 3, or 4 as directed by your cable company.

2 INSTALL BATTERIES

Before you can program or operate the remote control, you must install two AAA alkaline batteries.

- 1 Remove the battery compartment cover on the back of your remote control.
- 2 Check the battery polarity carefully, and install the batteries as shown in the illustration below.
- 3 Replace the battery compartment cover.

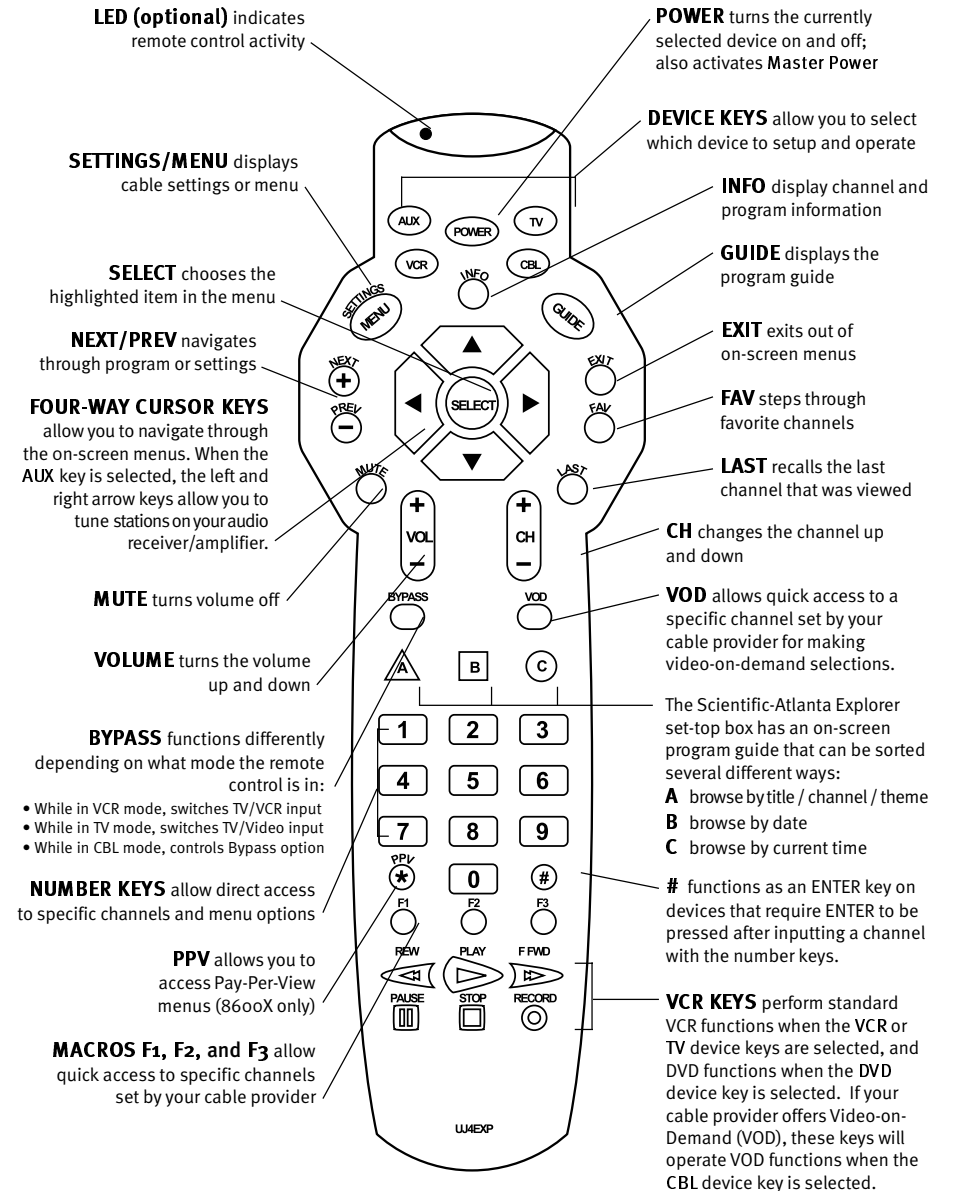


! IMPORTANT NOTE

Weak batteries may disrupt normal operation of the remote.
We recommend that you only use AAA alkaline batteries.

3 KNOW YOUR REMOTE

The diagram below shows the functions of special keys for your set-top box and program guide. US Electronics provides these function descriptions as a general guide to allow you to become more familiar with your set-top box. Refer to your set-top box manual for descriptions of specific functions.



4 SETTING UP YOUR REMOTE

To set up the UJ4EXP to operate a device, look for the list of manufacturers' three-digit codes for the device in **SECTIONS 10-16** of this manual, then perform the following steps. The UJ4EXP remote control is already programmed with the code for your Scientific-Atlanta set-top box. DVD players, PVRs, TV/VCR combos, and TV/DVD player combos need to be programmed using the **VCR** device key.

- 1 On the remote control, press and hold the appropriate device key for three seconds until all device keys begin to flash. Release the key. The selected device key will continue to flash.
- 2 Enter the three digit code using the number keys.
After you press the first digit, the device key should light and stay on. After you press the last digit, the device key should flash three times and turn off.
- 3 Point the remote at the device and press **POWER**. If the device turns on or off, you have finished programming the device.
- 4 If you are programming the **AUX** device, press and hold the **AUX** key until all four device keys begin to flash. Release the **AUX** key. The **AUX** key will continue to flash. Then press the device key (TV, VCR, AUX) you wish to program to the **AUX** device key - use the **AUX** key to program audio amplifier codes. Enter the three digit code for the device. After you press the last digit, the **AUX** key should flash three times and turn off.

If you have tried all the codes listed for the manufacturer and the device does not respond, refer to the Smart Scan™ section in the manual.

- 5 Write the codes below:

TV code: ___ ___ ___ AUX Code: ___ ___ ___ (device _____)

VCR Code: ___ ___ ___

5 PROGRAMMING VOLUME CONTROL

By default, your remote controls volume individually through each device. **AUX** is initially an audio device operating its own volume and mute. To set volume through a different device, follow these steps:

- 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 then the **VOLUME DOWN** key. The device key will stop flashing and remain on. Press and release the **TV**, **CBL**, **VCR**, or **AUX** key corresponding to the device you wish to control volume. After you release the key, the **CBL** device key will flash three times and turn off.

NOTE: Only select the **VCR** key if you have a TV/VCR combo or TV/DVD combo programmed under the **VCR** device mode.

NOTE: If a device is selected that does not have volume control, the programming cancels and does not flash a confirmation sequence.

To return volume control to the default state (where the volume keys can control volume for each device):

- 1 Same as step 1 above
- 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 the **SELECT** key. After you release the **SELECT** key, the **CBL** device key will flash three times and turn off.

6 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. Follow these steps to program the Master Power 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 One at a time, press and release the **DEVICE KEYS** corresponding to each device you wish to be controlled by Master Power.
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 device keys should flash and turn off.
- 5 Manually turn on all devices. Then test the Master Power control by pressing the **POWER** key.

To disable Master Power, select 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, **UNLESS** you do the following: To transmit a **POWER** on/off command for a device **NOT** included in the Master Power selection, press the **DEVICE** key for that device immediately (within five seconds) before pressing the **POWER** key.

7 CHANNEL LOCK

Channel Lock prevents the channel up and down functions from operating any device other than the set-top box – no matter which device (TV, Cable, VCR, or AUX) is currently selected. The UJ4EXP 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. To deactivate Channel Lock, follow these steps:

- 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 **CHANNEL UP** key, then the **CHANNEL DOWN** key, and finally the **SELECT** key. The **CBL** device key will flash three times to confirm the procedure.
Repeat these steps to reactivate Channel Lock.

8 RECALLING A DEVICE CODE

Perform the following steps to read the code currently set for a device. This is useful for retrieving a device code that was set using the Smart Scan™ procedure (**SECTION 9**).

- 1 Press and hold a device key until the four device keys flash twice. Release the key. The selected device key will continue to flash.
- 2 Press and release the **SELECT** key. The device key flashes each of the three 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 103 will be shown as:
FLASH <pause> **FLICKER** <pause> **FLASH... FLASH... FLASH**
- 3 Count and record the sequence of flashes to determine the three-digit code.

9 SMART SCAN™ AUTOMATIC PROGRAMMING

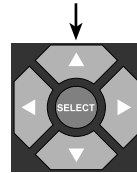
The Smart Scan™ automatic programming method will allow you to cycle through all the available codes in the remote until you find the right code for a device.

- 1 Manually turn on power to the device you want to program the remote for.
- 2 For TV and VCR modes, press and hold the appropriate device key for three seconds until all device keys begin to flash. Release the key. Then press and release the **POWER** key. The device key will stop flashing and stay on. Proceed to Step 3 to perform Smart Scan™.

For **AUX** mode, press and hold the **AUX** key for three seconds until the **AUX** key begins to flash. Release the key. Then press the **TV**, **VCR**, or **AUX** device key, depending on which device you want to assign to the **AUX** key. The **AUX** key will stop flashing and stay on. Press and release the **POWER** key. Proceed to Step 3 to perform the Smart Scan™.

- 3 Point the remote control at the device. Repeatedly press and release (or press and hold) the **UP ARROW** key until the device turns off. If holding the **ARROW UP** or **ARROW DOWN** key, the remote will send a code approximately once every second. If pressing keys repeatedly, one code is sent each time the key is pressed. If you accidentally press the **UP ARROW** key after the device has turned off, press the **DOWN ARROW** key to return to the previous device code.

The Up Arrow Key



- 4 While performing Smart Scan™, you can pause to test other device functions using the remote control. If primary functions do not work, resume Smart Scan™ by pressing the **ARROW** keys to find another code that turns off the device. Then test the functions again. When you are satisfied that all primary functions are working, press **SELECT** to lock in the code. The device key will then flash three times.

NOTE: When scanning for DVD players, PVRs, TV/VCR combos, and TV/DVD player combos, use the Smart Scan™ procedure with the **VCR** device key.

10 AUDIO AMPLIFIER CODES

Admiral	185	Kenwood	058 • 059 • 083 • 087	RCA	131 • 158 • 184 • 222
Aiwa	020 • 033 • 102 • 103 • 104 149 • 150 • 151 • 152 • 173	LXI	135 • 162 • 214	Realistic	018 • 072 • 170 • 185
Akai	075 • 119	MCS	021	Rotel	019 • 233 • 234
Bose	020 • 211	Lloyds	170	Sansui	015 • 016 • 063 • 074 • 133
Carver	022 • 083 • 091 • 093 • 147	MCS	021		223 • 224
Casio	021 • 170	Magnavox	028 • 119 • 170 • 210	Sanyo	083 • 147
Cinema Sound	036	Marantz	015 • 074 • 081 • 086 • 091 093 • 099 • 120 • 171	Sears	021
Citation	052 • 212	Memorex	151	Sharp	059 • 106 • 135 • 239
Clarion	059	Mitsubishi	045 • 082	Sony	000 • 001 • 002 • 003 • 004 005 • 006
Curtis Mathes	021	Modulaire	170	Sound Stream	027 • 030
Denon	036 • 106 • 107 • 108 109 • 110	NAD	099	Teac	058 • 074 • 075 • 090 • 223 225 • 226
Fisher	083 • 087 • 147 • 158	Nakamichi	074 • 084 • 157 • 217	Technics	056 • 057 • 126 • 177 199 • 200
Garrard	075	Onkyo	050 • 061 • 071 • 085 096 • 124 • 218 • 219	Vector Research	171 • 202
Harman Kardon	052 • 113 • 160 • 212	Optimus	037 • 059 • 075	Wards	083
Hitachi	110	Panasonic	038 • 126 • 177 • 220	Yamaha	053 • 059 • 145 • 180 • 203 204 • 227
JBL	078 • 161	Parasound	178	Yorx	170
JC Penney	021 • 170	Philips	015 • 086 • 093	Zenith	205 • 206 • 228
JVC	041 • 043 • 044 • 079	Pioneer	023 • 062 • 088 • 187 • 221		
Jensen	114 • 206	RCA	053 • 063 • 089 • 119 • 129 • 130		

11 PERSONAL VIDEO RECORDER CODES

Panasonic	145	ShowStopper	145	TIVO/Philips	135
ReplayTV	142 • 145	TIVO	135 • 146	TIVO/Sony	146

12 DVD CODES

Aiwa	179	Magnavox	021 • 120 • 198 • 215 • 220	Saba	205
Akai	163	Marantz	198	Samsung	208 • 209 • 220
Apex Digital	216	Mitsubishi	116 • 120 • 220 • 229	Sharp	053 • 197
Denon	112 • 113 • 185 • 195 222 • 227	NAD	120 • 224	Sherwood	166
Emerson	100	Nordmende	205	Shinco	206
Ferguson	205	Onkyo	220 • 225	Sony	101 • 103 • 108 • 200 • 218
Fisher	152 • 189	Panasonic	152 • 153 • 182 • 185 188 • 227	Sylvania	100 • 215
Funai	115	Philips	021 • 198 • 220	Technics	152 • 153 • 182 • 185
General Electric	205	Pioneer	120 • 188 • 191	Theta Digital	021
Goldstar	119 • 131 • 196	Proceed	228	Thomson	201 • 205
Harman Kardon	151	Proscan	205	Toshiba	053 • 120 • 220
Hitachi	104 • 181	Quasar	152	Yamaha	055 • 185 • 214 • 217 • 227
JVC	107 • 117 • 156	RCA	036 • 199 • 205	Zenith	119 • 131 • 196 • 203 • 220
KLH	187	Radio Shack	115		
Kenwood	018 • 053	Runco	207		

13 TV/DVD COMBO CODES

NOTE: Emerson, Sharp, and Sylvania TV/DVD combos require that the TV and DVD sections of the unit be programmed *separately*. If you own one of these models, note that there are two codes listed below. You will need to program the remote control for the TV *and* DVD sections of the device by using the two codes below and by following the instructions in Section 4.

Broksonic	110	Konka	106	Sylvania	TV = 231, DVD = 100
Emerson	TV = 230, DVD = 100	Samsung	109	Toshiba	118

14 TV/VCR COMBO CODES

Aiwa	251	Marantz	237 • 238	Sanyo	244 • 245
Audio Dynamics	238	Marta	223	Scott	247
Broksonic	219 • 226	Memorex	223 • 242 • 244 • 245 248 • 251	Sears	223 • 251
Curtis Mathes	241 • 251	Mitsubishi	239 • 240	Signature	251
DBX	238	Multitech	251	Sony	232
Daewoo	247 • 250 • 252	Optimus	242	Soundesign	251
Electrohome	240	Orion	219 • 226	Sylvania	237 • 240 • 251
Emerson	219 • 223 • 226 • 251 252 • 253	Panasonic	241 • 242	Symphonic	251
Funai	251	Philco	236 • 237 • 251	Tandy	251
General Electric	233 • 241 • 248	Philips	223 • 236 • 237 • 251	Teac	251
Goldstar	223 • 230 • 238 • 254	Pioneer	235	Technics	242
Harman Kardon	238	Proscan	233	Teknika	223 • 251
Hitachi	241 • 251	Pulsar	248	Toshiba	240 • 247
JC Penney	223 • 238 • 241 • 242	Quasar	241 • 242	Totevision	223
JVC	234 • 235 • 238	RCA	233 • 241 • 251	Vector Research	238
Kenwood	235 • 251	Radio Shack	230 • 242 • 251	Victor	235
LXI	223 • 251 • 254	Realistic	223 • 251	Video Concepts	238 • 251
MGA	240	Runco	243	Wards	251
MTC	251	Samsung	221 • 244 • 245 • 246 • 247	Yamaha	238 • 251
Magnavox	236 • 237 • 241 • 251	Sansui	219 • 235 • 251	Zenith	219 • 223 • 235 • 248 249 • 251

15 TELEVISION CODES

AOC	005 • 006 • 019 • 020 • 120 • 140
Admiral	003 • 018 • 034 • 041 • 090
Aiko	024
Aiwa	090
Akai	000 • 032 • 070 • 149 • 172
Alaron	034
Amark	120 • 224 • 225
Amstrad	033
Anam	005 • 009 • 021 • 041 • 120 • 121 • 183
Anam National	211
Archer	120
Audiovox	024 • 041 • 120 • 170
Bell & Howell	018 • 090
Broksonic	005 • 172 • 173 • 174 • 176
CXC	041
Candle	006 • 022 • 023 • 025 • 163 • 213
Capehart	019
Carver	151
Centurion	192 • 194
Citizen	006 • 016 • 018 • 022 • 023 • 024
Concerto	005 • 023 • 213
Contec	041 • 091 • 181 • 227
Corando	224
Coronado	225
Craig	021 • 041
Crown	026 • 041
Curtis Mathes	006 • 016 • 018 • 026 • 059
	090 • 125 • 131 • 163 • 172
	192 • 194 • 202 • 224

Daewoo	005 • 024 • 026 • 029 • 030 • 032
Daytron	026 • 192 • 194 • 224
Denon	169
Dimensia	125
Dumont	001
Electrohome	026 • 149 • 224
Emerson	017 • 023 • 026 • 028 • 033 • 034 • 035
	037 • 038 • 039 • 041 • 090 • 122
	141 • 143 • 171 • 172 • 176 • 181
	203 • 222 • 224 • 225 • 227 • 230
Envision	163
Fisher	042 • 090 • 099
Fujitsu	034
Funai	034 • 041 • 132
Futuretech	041
General Electric	003 • 008 • 009 • 023 • 043
	044 • 125 • 130 • 134 • 143 • 165 • 170
	172 • 182 • 183 • 195 • 206 • 207 • 211
Goldstar	005 • 023 • 026 • 045 • 046 • 088
	168 • 172 • 173 • 194 • 213 • 224 • 225
Gradiente	060
Hallmark	023 • 172
Hinari	034
Hitachi	018 • 023 • 026 • 048 • 049 • 050
	052 • 053 • 054 • 055 • 126 • 169
	172 • 213 • 224 • 225
Infinity	010 • 066 • 151
JBL	010 • 066 • 151
JC Penney	003 • 005 • 006 • 014 • 016 • 026
	043 • 044 • 096 • 125 • 131 • 134 • 149
	163 • 165 • 172 • 194 • 202 • 206 • 207 • 224

JVC	057 • 058 • 059 • 060 • 186
KFC	041
KMC	224 • 225
KTV	026 • 039 • 041 • 172 • 224 • 225
Kenwood	006
Kloss	022 • 110
LXI	003 • 010 • 066 • 090 • 117 • 125 • 129
	131 • 132 • 134 • 151 • 172 • 173 • 194
Lloytron	224
Lodgenet	018
Logik	018
Luxman	023 • 213
MGA	004 • 005 • 006 • 023 • 034 • 071
	072 • 149 • 163 • 172 • 192 • 194
MTC	005 • 006 • 016 • 023 • 163 • 202 • 213
Magnasonic	024 • 034 • 129 • 131 • 151
Magnavox	000 • 006 • 008 • 010 • 017 • 020
	025 • 027 • 028 • 034 • 066 • 067
	068 • 110 • 132 • 151 • 163 • 164 • 167
	172 • 173 • 175 • 192 • 194 • 224 • 225
Majestic	018
Marantz	006 • 010 • 066 • 068 • 088
	149 • 151 • 163 • 172
Matsui	032 • 109
Memorex	018 • 032 • 034 • 072 • 090
	149 • 172
Midland	001 • 003 • 165
Mitsubishi	004 • 005 • 023 • 034 • 070
	071 • 072 • 122 • 123 • 129 • 149
	172 • 173 • 192 • 194
Multitech	041
NAD	002 • 117 • 131 • 166 • 172
NEC	005 • 006 • 007 • 023 • 028 • 090 • 163
	172 • 173 • 183 • 191 • 192 • 194 • 213
National	011 • 151 • 195 • 196 • 211
Nikkai	118
Onwa	041
Optimus	012 • 090 • 166

Optonica	129
Orion	176
Osume	091
Panasonic	008 • 009 • 010 • 011 • 012 • 066
	151 • 165 • 183 • 195 • 196 • 211
Philco	005 • 006 • 025 • 067 • 068 • 110
	149 • 151 • 163 • 169 • 172 • 176
	183 • 224 • 225
Philips	005 • 010 • 025 • 027 • 066 • 068 • 088
	146 • 151 • 163 • 164 • 220 • 225
Pioneer	002 • 008 • 048 • 076 • 131 • 166
Portland	005 • 024 • 026 • 172 • 224 • 225
Proscan	125 • 172
Proton	006 • 013 • 019 • 023 • 026 • 172 • 224
Pulsar	001
Quasar	008 • 009 • 012 • 165 • 183 • 195 • 211
RCA	003 • 005 • 008 • 014 • 048 • 078 • 079
	080 • 082 • 084 • 085 • 086 • 087 • 125
	130 • 134 • 149 • 172 • 182 • 183 • 210
Radio Shack	003 • 026 • 041 • 072 • 090
	112 • 141 • 172 • 173 • 194
	224 • 229
Realistic	035 • 041 • 090 • 141 • 172 • 194
	222 • 224 • 229
Runco	001
SSS	005 • 041
Saisho	032 • 033 • 109
Sampo	006 • 019 • 163 • 192 • 194
Samsung	005 • 006 • 016 • 023 • 026 • 032
	088 • 112 • 163 • 172 • 173 • 192
	194 • 202 • 213 • 224 • 225 • 229
Sansui	176
Sanyo	042 • 089 • 090 • 091 • 092 • 109 • 194
Scott	026 • 034 • 037 • 041 • 093 • 172
	173 • 192 • 194 • 224
Sears	003 • 023 • 034 • 042 • 090 • 096 • 098
	099 • 101 • 102 • 104 • 117 • 125 • 131
	132 • 134 • 151 • 172 • 194 • 202 • 224 • 225

Sharp	026 • 091 • 129 • 141 • 200 • 224 • 225
Signature	018
Sony	000 • 109 • 119 • 122 • 189
Soundesign	023 • 025 • 034 • 041 • 172
Spectricon	120
Starlite	041
Supra	022 • 023
Sylvania	006 • 010 • 025 • 066 • 068 • 110
	112 • 132 • 151 • 163 • 172 • 173
	192 • 194 • 229 • 231
Symphonic	132 • 179
TMK	023 • 172 • 213
Tandy	112 • 129
Tatung	009 • 183 • 211
Technics	008 • 012 • 165
Techwood	023 • 165 • 213
Teknika	004 • 005 • 016 • 018 • 022 • 023 • 024
	025 • 026 • 034 • 041 • 072 • 114 • 149
	151 • 202 • 213 • 224 • 225
Telerent	018 • 224
Teletex	032
Toshiba	016 • 017 • 090 • 096 • 117 • 118
	131 • 180 • 201 • 202
Totevision	026 • 224
Universal	043 • 044 • 206 • 207
Vector Research	006
Victor	057 • 060
Video Concepts	070
Vidtech	005 • 023 • 172 • 173
Viking	122
Wards	005 • 006 • 018 • 023 • 034 • 043 • 044
	067 • 068 • 119 • 125 • 141 • 151 • 163
	172 • 173 • 182 • 192 • 194 • 206 • 207 • 224
Westinghouse	041 • 090 • 130 • 170 • 171 • 176
Yamaha	005 • 006
Yorx	192 • 194
Zenith	001 • 018 • 024 • 178
Zonda	120

16 VCR CODES

ASA	065 • 134
Admiral	085 • 178
Aiwa	056 • 088 • 202
Akai	008 • 013 • 014 • 015 • 016 • 019
	020 • 068 • 086 • 210
Alba	046
American High	054 • 158
Amstrad	088
Audio Dynamics	030 • 046 • 086 • 210
Audiovox	056
Bell & Howell	049 • 175 • 177
Broksonic	005 • 008 • 059 • 148
Bush	089
CCE	176
Candle	042 • 046 • 056 • 080 • 092 • 149
Canon	042 • 054 • 154 • 158
Capehart	046
Carver	065 • 136
Cineral	176
Citizen	034 • 046 • 056 • 091 • 092
Craig	044 • 056 • 082 • 091
Curtis Mathes	034 • 051 • 054 • 088 • 092 • 105
	114 • 139 • 149 • 154 • 158
DBX	030 • 046 • 086 • 210
Daewoo	034 • 046 • 150 • 176 • 204
Daytron	046
Denon	173
Dimensia	105
Dual	210
Dumont	049
Dymatech	034 • 088 • 161
Electrohome	056 • 068

Emerson	005 • 006 • 008 • 009 • 010 • 011 • 012
	034 • 056 • 059 • 068 • 070 • 088 • 090
	132 • 148 • 150 • 169 • 176 • 190 • 192
	193 • 204 • 211 • 212 • 213
Ferguson	210
Finlandia	049
Finlux	049 • 065 • 088 • 134
Fisher	048 • 049 • 081 • 082 • 084 • 175
Fuji	054 • 158
Funai	088
General Electric	025 • 033 • 050 • 051 • 052 • 054
	091 • 105 • 133 • 139 • 149 • 154
	158 • 167 • 178 • 194
Go Video	057 • 058 • 091 • 164 • 165 • 186
Goldstar	030 • 033 • 056 • 092 • 102
Goodmans	085 • 089 • 161
Gradiente	061 • 062 • 088
Graetz	210
Granada	049 • 081
Grundig	065 • 134
HQ	034
Harman Kardon	030 • 065 • 069 • 136
Hinari	089
Hitachi	037 • 038 • 040 • 041 • 086 • 088
	094 • 095 • 121 • 139 • 173 • 210
ITT	210
JC Penney	030 • 046 • 050 • 052 • 054 • 056
	080 • 081 • 091 • 092 • 094 • 114
	139 • 149 • 154 • 158 • 173 • 175
JVC	030 • 046 • 061 • 062 • 063 • 064 • 081
	086 • 092 • 123 • 158 • 168 • 210
Jensen	013 • 086 • 210

Kenwood	046 • 062 • 081 • 086 • 088 • 092 • 210
Kodak	056 • 158
LXI	034 • 056 • 088 • 173 • 175
Lloyd	088
Logik	089
MEI	054 • 158
MGA	067 • 068 • 070 • 169 • 183 • 211
MTC	080 • 088 • 091
Magnavox	027 • 033 • 034 • 050 • 054 • 065
	076 • 085 • 088 • 111 • 130 • 134
	136 • 137 • 138 • 139 • 158 • 159
Magnin	091
Marantz	030 • 046 • 054 • 065 • 081 • 085 • 092
	102 • 134 • 136 • 139 • 158 • 159 • 161
Marta	056
Matsui	088
Matsumita	054 • 114 • 137 • 138 • 139
	154 • 158
Memorex	033 • 049 • 054 • 056 • 066 • 081 • 082
	085 • 088 • 091 • 114 • 158 • 161 • 178
Minolta	094 • 173
Mitsubishi	062 • 067 • 068 • 069 • 070 • 071 • 124
	125 • 140 • 169 • 178 • 183 • 211
Motorola	054 • 158 • 178
Multitech	088 • 089 • 091 • 154 • 174
NAD	073
NEC	030 • 031 • 032 • 046 • 049 • 062 • 081
	086 • 092 • 102 • 127 • 128 • 158 • 160 • 210
National	054
Nokia	176
Nordmende	210
Olympus	054 • 158
Optimus	049 • 056 • 088 • 091 • 114 • 154 • 178
Optonica	085 • 130 • 161
Orion	005 • 006
Panasonic	023 • 024 • 034 • 054 • 078 • 098
	114 • 129 • 137 • 138 • 139 • 149
	154 • 158 • 170 • 171

Pentax	037 • 092 • 094 • 173
Philco	054 • 076 • 088 • 111 • 134 • 137
	138 • 139 • 154 • 158 • 176
Philips	034 • 054 • 065 • 085 • 088 • 134 • 136
	138 • 139 • 154 • 155 • 158 • 161
Pioneer	046 • 062 • 073 • 074 • 075 • 076 • 111
Portland	046
Proscan	034 • 065 • 105 • 136 • 138 • 154 • 173
Pulsar	033 • 088 • 154
Quartz	081
Quasar	054 • 078 • 114 • 129 • 137 • 139
	149 • 158 • 170
RCA	025 • 027 • 028 • 034 • 037 • 051 • 054
	065 • 088 • 091 • 094 • 105 • 136 • 138
	139 • 147 • 154 • 158 • 173 • 178 • 194
Radio Shack	054 • 056 • 068 • 081 • 082 • 084
	085 • 088 • 091 • 114 • 130 • 154
	161 • 172
Realistic	049 • 054 • 056 • 080 • 081 • 082
	084 • 085 • 088 • 091 • 130 • 139
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