

CheckMate® V

Model RT-U50

Universal Remote Control



Programming & Operating Instructions

To have a clearer idea of the features and capabilities of your remote control, take a moment to carefully read these instructions
Save for future reference.

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1. Introduction

Your Checkmate® V, Model RT-U50, universal remote control is simple to program, easy to use, and can operate up to four (5) electronic devices, which include:

CABLE	Cable set-top terminals
TV	Televisions
VIDEO	VCR
DVD	DVD players
AUDIO	Audio-video receivers, amplifiers, CD players, cassette players, DMX / DCR Digital Music converters

Before you can use your remote control, it must be programmed (set-up) to operate the above devices.

2. Before Getting Started

Some of the special features on your remote control are:

Point and Press™ Programming

Lets you program your TV, VIDEO, DVD and AUDIO devices without using codes. For more information, see sections 5, 6 and 7.

SmartKeys™

Program multiple button presses on the [CABLE], [TV] and [PPV/LOCK] buttons. For more information, see section 9.

Mode Lock™

Your model RT-U50 remote comes "locked" in its cable operating mode. To operate more functions on your TV, VCR, DVD or Audio devices, see section 11.

[DEVICE] Button

[DEVICE] button operates only when Mode Lock™ feature is unlocked. When [DEVICE] is pressed, one of the power buttons will light up indicating the current device being operated. While the current mode power button is illuminated, press a non-illuminated power button to operate a different device.

[VCR / DVD / VOD] Button

"Toggles" the VCR buttons between Cable "Video-On-Demand" (VOD), VCR or DVD functions.

Memory Guard™

Eliminates reprogramming after battery changes.

Time Out

Shuts remote off if any button is pressed and held for 45 seconds. This extends battery life in the event the remote becomes lodged under or between heavy objects.

Reset

Lets you reset your remote to its original default settings. For more information, see section 12.

3. Installing / Replacing Batteries

Install two (2) new AAA batteries - alkaline type batteries are recommended for longer operating life. Properly match the "+" / "-" ends of the batteries with the diagram in the battery compartment.

Low Battery Indication - when the batteries become low and need to be replaced, the [CABLE], [TV], [VCR], [DVD], and [AUDIO] buttons will no longer illuminate during operation. When this happens, install two (2) new AAA alkaline batteries to restore normal operation to the remote control.

Your remote control has Memory Guard™, which eliminates reprogramming after battery changes.

4. Programming Cable Set-Top Terminal

Your remote control is pre-programmed to operate Motorola's DCT® (digital) and CFT2200 (analog) set-top terminals. If you are operating either of these cable set-top terminals, no cable programming is necessary - proceed to section 6.

If you need to operate another cable set-top terminal, look up the brand and model number in the Cable Setup Code list. If you are not sure of your brand and model, contact your cable company.

To program (setup) your cable set-top terminal...

1. Turn on your cable set-top terminal.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in

sequence.

3. Press [CABLE]. The [CABLE] button lights up.
4. From the Cable Setup Code list, locate and enter the 3-digit code for your brand and model.
5. Press [CABLE] to lock in the code. The [CABLE] button will blink and go out.

Cable brand & setup code _____

5. Programming TV, VIDEO, DVD or AUDIO Devices

If you have a TV that's operated by remote control, it's recommended that you plug it directly into a wall outlet instead of the cable set-top terminal.

To program (setup) your TV, VCR, DVD or AUDIO...

1. Turn on the device you wish to program (i.e., TV, VCR, DVD or AUDIO)
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [TV] (or [VCR], [DVD] [AUDIO]). The button of the device you wish to program will light up.
- 4 a. Press and hold [CH ▲] until your device turns off. As soon as your device turns off, release [CH ▲].

OR

- b. From the Setup Code list of your device, locate and enter the 3-digit code until your device turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your device turns off.
5. Press [MUTE].
 - a. If your device turns back on, press [TV] (or [VCR], [DVD] [AUDIO]) to lock in the code. The button will blink and go out.
 - b. If your device doesn't turn back on, repeat steps 4 and 5 above until you can turn your device off and on.

TV brand & setup code _____

VCR brand & setup code _____

DVD brand & setup code _____

AUDIO brand & setup code _____

 **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your device off but not back on, you may have gone past the correct matching code. Try pressing [CH ▼] one step at a time until you find a code that turns your device back on.

6. Programming TV / VCR Combination

1. First, program your remote for the TV functions
 - a. Refer to Section 5
 - b. Find a TV Setup Code that operates the TV functions (power, vol ▲/▼, mute, CH ▲/▼, 0 – 9) of your TV / VCR unit.
2. Then, program your remote for the VCR functions
 - a. Refer to Section 5
 - b. Enter, lock and test each 3-digit VCR Setup Code until a code is found that operates the VCR functions (play, stop, fast-forward, rewind, pause, record) of your TV / VCR unit.

Note: You can not use the Point and Press™ Programming method to program the VCR functions of your TV / VCR unit.

7. Programming a 2nd TV, VCR, DVD

Instead of programming an Audio device, you can program your remote to operate a 2nd TV, 2nd VCR, or 2nd DVD player.

To program a 2nd TV to your remote's [AUDIO] button...

1. Turn on your 2nd TV.
2. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
3. Press [AUDIO], then [TV]. The [AUDIO] and [TV] buttons will start blinking.
- 4 a. Press and hold [CH ▲] until your 2nd TV turns off. As

soon as your 2nd TV turns off, release [CH ▲].

OR

- b. From the TV Setup Code list, locate and enter the 3-digit code until your 2nd TV turns off. If multiple codes are listed, you may have to enter several 3-digit codes until your 2nd TV turns off.
5. Press [MUTE].
 - a. If your 2nd TV turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink and go out.
 - b. If your 2nd TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your 2nd TV off and on.

 **NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your 2nd TV off but not back on, you may have gone past the correct matching code. Try pressing [CH ▼] one step at a time until find a code that turns your 2nd TV back on.

If you want to program a 2nd VCR or DVD player in the above example, you would press [AUDIO], then [VCR] or [DVD] in step 3., then follow steps 4. and 5. referring to the Video Setup Code list.

8. Programming Volume Control

When you first program your remote, volume / mute are controlled through your TV (except AUDIO volume which defaults to the AUDIO device).

The volume control options in each mode of the remote are:

CABLE	TV (default), Cable or Audio.
TV	TV (default), Cable or Audio.
VIDEO	TV (default), Cable or Audio.
DVD	TV (default), Cable or Audio
AUDIO	Audio device (default), Cable or TV.

To control volume / mute through your cable set-top terminal in the remote's cable mode...

1. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
2. Press [CABLE] to select the cable mode. The [CABLE]

button lights up.

3. Press [VOL ▲], then [CABLE] for cable volume. The [CABLE] button will blink and go out.

To return volume control back to your TV, repeat steps 1. and 2. above, then press [VOL ▲], then [TV] in step 3.

9. Your Remote's SmartKey™

Your remote has three (3) SmartKeys™ - [CABLE], [TV], and [PPV / LOCK], that operate in its cable mode. Each SmartKey™ can be programmed to transmit multiple functions.

Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable set-top terminal. To program the [CABLE] button to transmit multiple pre-programmed functions, follow the steps below:

1. Press [DEVICE], then [CABLE] to select the cable mode of your remote. (If [DEVICE] is unlocked).
2. Press [CABLE], then [OK/SEL] together - hold both buttons down until the [CABLE] button lights up.
3. Press the option number below for the desired functions:

Option	Pre-Programmed to turn on...
[1]	Cable box & TV - tune TV to Ch 3
[2]	Cable box & TV - tune TV to Ch 2
[3]	Cable box & TV - tune TV to Ch 4
[4]	Cable box, TV & VCR - tune TV to Ch 3
[5]	Cable box, TV & VCR - tune TV to Ch 2
[6]	Cable box, TV & VCR - tune TV to Ch 4
[7]	Cable box, TV, VCR & AUDIO - tune TV to Ch 3
[8]	Cable box, TV, VCR & AUDIO - tune TV to Ch 2
[9]	Cable box, TV, VCR & AUDIO - tune TV to Ch 4
[A]	Cable box, TV, VCR, AUDIO & DVD - tunes TV to Ch 3
[B]	Cable box, TV, VCR, AUDIO & DVD - tunes TV to Ch 2
[C]	Cable box, TV, VCR, AUDIO & DVD - tunes TV to Ch 4
[0]	Cable box only (default)

4. The [CABLE] button will blink and go out, storing the selected option.

Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV. To program the [TV] button to transmit multiple pre-programmed functions, follow the steps below:

1. Press [DEVICE], then [CABLE] to select the cable mode of your remote.
2. Press [TV], then [OK/SEL] together - hold both buttons down until the [TV] button lights up.
3. Press the option number below for the desired functions:

Option	Pre-programmed to turn on...
[1]	TV - tune TV to Ch 3
[2]	TV - tune TV to Ch 2
[3]	TV - tune TV to Ch 4
[0]	TV only (default)

4. The [TV] button will blink and go out, storing the selected option.

Programming and using the [PPV / LOCK] SmartKey™

The [PPV/LOCK] button (Cable mode) normally displays your cable system's listing of pay-per-view events. You can program the [PPV / LOCK] SmartKey™ to tune to a specific cable channel (ex. 123) with one button press...

1. Press [DEVICE], then [CABLE] to select the cable mode of your remote.
2. Press [PPV / LOCK], then [OK/SEL] together – hold both buttons down until the [CABLE] button lights up.
3. In this order, press [1], [2], [3]. The [CABLE] button will blink and remain illuminated.
4. Press [CH ▲] to lock in this setting. The [CABLE] button will blink and go out.

To return the [PPV / LOCK] button to its normal default setting, repeat steps 1 and 2 above, then press [CH ▼].

Remember: When using any SmartKey™ to transmit a series of functions, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

10. Code Number Read Back

To identify a 3-digit device code stored under the Point and Press™ method, follow these steps:

1. Press [DEVICE], then [MUTE] together - hold both buttons down until the lighted mode buttons start blinking in sequence.
2. Press [CABLE] to identify your cable set-top terminal code. Or [TV], [VCR], [DVD], [AUDIO] to identify these codes. The selected mode button will be illuminated.
3. Press [INFO]. The illuminated button “blink back” the code numbers, with a 1 second interval between each digit of the code.

Example: For code “035”, the remote will blink 10 times, then 3 times, then 5 times.

11. Mode Lock™

Your model RT-U50 remote comes locked in its cable operating mode. While locked in its cable mode, it can control all cable set-top operations, as well as power on your TV, VCR, DVD and Audio devices.

To operate more functions on your TV, VCR, DVD and Audio devices, you can unlock the remote as follows:

1. Press [CABLE], then [MUTE] together - hold both buttons down until the [CABLE] button lights up.
2. Press [9, 9, 9]. The [CABLE] button will blink and go out.

To lock your remote back in its cable operating mode...

1. Press [CABLE], then [MUTE] together - hold both buttons down until the [CABLE] button lights up.
2. Press [0, 0, 0]. The [CABLE] button will blink and go out.

12. Resetting Your Remote Control

To reset you remote to its factory default settings...

1. Press [OK /SEL], then [LAST] together – hold both buttons down until the [CABLE], [TV], [VCR], and [AUDIO] buttons blink in sequence two times (approx. 5 seconds).

13. Helpful Tips & Troubleshooting

- Your remote is equipped with 2 quick- programming labels on the back of its case.
 - Point and Press™ Programming** - This will help you quickly program the remote without using codes.
 - Mode-Lock™** - Your model RT-U50 comes “locked” in its cable-operating mode. To operate more functions on your TV, VCR, DVD and audio devices, you can unlock your remote using the simple instructions on the back of your remote or refer to section 11.
- The illuminated mode button will remain on while the remote is in a programming mode. In the absence of an entry, the button will go out after approx. 20 seconds.

When locking in your devices, the illuminated mode button will blink and go out.
- When using the Point and Press™ programming method, you may find a code that turns your device off but not back on. If this happens...
 - the correct code has not been found. Continue pressing [CH ▲] until your devices turn on and off.
 - you may have gone past the correct matching code. Try pressing [CH ▼] one step at a time until find a code that turns your cable set-top terminal back on.
- NOTE: If you have a Scientific Atlanta 8500 series cable set-top terminal, press [CH ▲] or [CH ▼] to turn on the cable set-top terminal. Press [CABLE] to turn these cable set-top terminals off.
- If you have any questions concerning the operation of your cable set-top terminal, contact your cable operator.
- Your remote control has Memory Guard™, which eliminates reprogramming after battery changes.

Cable Setup Codes

Manufacturer	Model	Code
MOTOROLA (GI)	DCT, CFT2200	001

	CFT2000, CFT2100, WNR	115
JERROLD	DL4, DP(V), DQN(V), DPBB	101
OAK / TOCOM	SIGMAONE P1, P2& P3, SIGMA2000, SIGMA 550	037
PIONEER	VOYAGER	122
	BC4100, 4200, 4500, 4600	
	BA5000, 6000	034
	BA-V1000, BA-V2000	120
	BA-9000	121
PACE	510 Digital	122
PHILIPS	Digital	017
SCIENTIFIC-ATLANTA	EXPLORER	122
	8600X	002
	8600	011
	8540, 8550, 8570, 8580	
	8590	042
TOCOM	5503VIP & 5507, 5508	003
ZENITH	MM2500	008
	Z-TAC	108

TV Setup Codes

Admiral	072 081 161 160
Aiwa	205
Akai	001 146
A Mark	107 186
Ampro	073 167 157
Amstrad	052
Anam	043 056 080 131
AOC	001 004 058
Audiovox	076
Blaupunkt	088
Cairin	201
Candel	001 002 003 004
Capehart	058
Cetronic	043
Citizen	001 002 003 004 043 101 103 143
Classic	043
Concerto	004
Contec	043 050 051
Coronado	143
Craig	043
Crown	043 143
Curtis Mathes	001 101 004 143

Daewoo	004 016 043 044 076 103 114 125 127 143
Daytron	004 143
DWIN	177
Dynasty	043
Dynatech	062
Eiki	187
ElectroHome	024 076 143 196
Emerson	001 004 005 028 043 047 048 050 051 076 143 154 155
Fisher	007 057
Fujitsu	198
Funai	028 043
Futuretech	043
GE	001 004 008 009 034 056 073 074 091 130 144 155 157 160 161 165 206
Goldstar	004 102 106 119 127 143
Hall Mark	004
Hitachi	004 009 010 011 012 023 072 075 143 158
Infinity	164
JBL	164
JC Penney	001 004 008 009 024 030 065 101 143 156 160
Jensen	013
JVC	034 038 070 083 145 199
KEC	043
Kenwood	001 070
Kloss	002 059
KMC	143
KTV	001 043 143 154
Lodgenet	072
Logik	072
Luxman	044
LXI	007 015 052 081 160 164
Magnavox	001 003 004 022 059 060 061 063 064 127 160 164 094 207
Marantz	001 164
Matsui	164
Memorex	004 007 072
MGA	001 004 024 028 042
Minerva	088
Mitsubishi	004 024 028 040 042 109 124 146 191
MTC	001 004 062 101
NAD	015 025
NEC	001 130 134 040 016 019 024 056
Nikei	043
Onking	043
Onwa	043
Orion	096
Panasonic	034 056 080 164
Philco	001 003 004 024 056 059 060 063 064 164
Philips	001 003 004 005 038 059 093 164 127
Pioneer	001 018 023 025 135 190

Portland 004 143
ProScan 144 160 161 165 167 197
Proton 004 058 131 143 171 173 193
Quasar 034 056
Radio Shack 004 019 043 143 127
RCA 001 004 023 024 056 065 144 152 156 160 161 165
208
Realistic 007 019 043 047
Roctech 186
Runco 168 169 178 179 180 181 182 073 157
Sampo 001 004 058 202
Samsung 004 050 089 101 105 127 143 160 209
Sanyo 007 020 053 057 082 187 204
Scott 004 028 043 048 143
Sears 015 030 004 007 028 057
Selco 189 200
Sharp 004 014 019 022 028 029 143 170 175 081
Seimens 088
Signature 072
Sony 070 085 126 139 147 185 194
Soundesign 004 028 003 043
SSS 004 043
Supre-Macy 002
Sylvania 001 003 044 059 060 063 064 127 160 164 203
Tandy 081
Tatung 056 062
Techwood 004
Teknika 002 003 004 024 028 043 072 101 143
Telefunken 037 046 086 087
Telarent 072
TERA 172
TMK 004
Toshiba 007 015 030 040 062 101 138
Totevision 143
Universal 008 009
VideoConcepts 146
Vidikron 174 184 188 192
Vidtech 004
Wards 004 008 009 019 028 034 060 061 063 064 072 074
143 164
Westinghouse 076
Yamaha 001 004
York 004
Yupitero 043
Zenith 072 073 095 103 157

VCR Setup Codes

Aiwa 034 161
Akai 016 043 046 124 125 142 146
Ampro 072

Anam 083
Audio Dynamics 012 023 039 043
Brooksonic 037 129
Canon 028 083
Capehart 108
Craig 001 104 135
Curtis Mathes 083 141
Daewoo 005 007 010 065 108 110 111 112 117
Daytron 108
DBX 012 023 039 043
Dynatech 034 053
Electrocrome 059
Emerson 006 025 083 034 036 037 046 106 129 131 167
117
Fisher 001 008 009 010
Funai 034
GE 083 063 072 107 109 144 147
Go Video 104 132 136 155 168
Goldstar 012 020 106 114 123
Harman Kardon 012 045
Hitachi 018 020 026 034 043 063 150 160
Instant Replay 083
JCL 083
JC Penney 012 020 083 104 106
Jensen 043
JVC 012 083 043 048 050 055 060 130 150 152
Kenwood 014 048 034 047
Llyod 034
LXI 001 009 034 106
Magin 104
Magnavox 034 041 067 068 083 156 164
Marantz 012 083 067 069
Marta 106
Memorex 001 010 014 034 053 072 083 104 106 134 139
MGA 045 046 059
Minolta 020
Mitsubushi 020 045 046 049 051 059 061 142 151
MTC 034 104
Multitech 024 034
NEC 012 023 039 043 048
Nordmende 043
Optonica 053 054
Orion 025
Panasonic 070 074 083 133 140 145
Pentax 020 083 063
Philco 083 034 067
Philips 083 034 054 067 071 106
Pilot 106
Pioneer 020 021 048
Portland 108
Pulsar 072

Quartz 002 041
Quasar 083 145 075
Radio Shack 123
RCA 020 041 107 109 140 144 145 147 034 104 158
Realistic 001 008 010 014 083 034 104 053 054 106
Rico 058
Runco 148
Salora 014
Samsung 032 104 083 107 109 112 113 122 125 168
Sansai 043 048 135
Sanyo 001 007 010 014 134 104
Scott 037 112 129 131
Sears 001 008 009 010 020 014 081 106 073 112
Sharp 083 054 053 159 165
Shintom 024
Signature 034
Sony 001 083 052 056 057 058 076 078 053 154
Soundesign 034
STS 020
Sylvania 083 034 059 067
Symphonic 034
Tandy 010 034
Tatung 039 043
Teac 034 039 043
Technics 083 070
Teknika 019 083 034 106
Thomas 034
TMK 006
Toshiba 008 020 042 047 059 079 082 112 131 081
Totevision 104 106
Unitech 104
Vector Research 012
Victor 048
Video Concepts 012 034 046 141
Videosonic 104
Wards 001 020 024 083 034 104 053 064 131
Yamaha 012 034 039 043
Zenith 034 048 056 058 072 080 106 167

DVD Setup Codes

Apex 220 205
Denon 226 240
DVD-Video 203
GE 231 243
Gradienti 200 201
Harman Kardon 218 225
JVC 238
KLH 223
Kenwood 224
LG 235 247 241 249
Magnavox 237

Marantz 217
Mitsubishi 227
NAD 221
Onkyo 216 233
Panasonic 228 234
Philips 237
Pioneer 230 229
Proceed 219
Proscan 231 229
RCA 231 243
Samsung 236 248
Sharp 222 202
Sony 232 244 204
Thompson 231 243
Toshiba 233 245 250
Yamaha 234 246
Zenith 247 241 235

Audio Setup Codes

ADC 007
Adcom 057 082 092 161 225
Aiwa 018 104 170 188 202 203 211 213
Akai 138 189
AMC 125 126 127 128 171 174
Amend 054
Angstrom 142
Arcam 141
Audio Access 147
Audio File 071
Audio Matrix 167
Audio Technica 134
B&K 096 097
Bose 070 170 224
Carver 006 022 028 029 061 071 077 185 201 214 226
Casio 076
Cinema Sound 001 134
Citation 122 148
Clarion 026
Curtis Mathes 076
Denon 002 011 027 001 037 109 215 229 230 234 123
Enlightened Audio 098 099
Fisher 047 182 214
Fosgate 062 231
Goldstar 008
Harman Kardon 003 118 121 132 154 227 231 233
Hitachi 020
Inkel 222
JC Penney 076 216
Jensen 058
JVC 056 114 149 155 163 191

Kenwood 005 026 066 145 146 151 162 181 182 190 192
199 222
Koss 216
Krell 072
Kyocera 007
Lexicon 120 180 194
Linn 124
Luxman 004 009 052 115 137 139 165
LXI 076
Magnavox 086 152 164 208
Marantz 006 025 028 031 040 054 063 185 186
Macintosh 178
MCS 076
Meridian 012 013 100
Mitsubishi 153 204
Mondial 042 043 081 112 157 158
NAD 113 176 186
Nakamichi 103 111 150 172 183
Onkyo 017 046 079 080 084 090 107 108 130 179 187 209
Optimus 026 041 138
Panasonic 032 195
Philips 025 034 038 063
Pioneer 014 033 035 039 044 045 050 069 078 116 159 168
198
Proceed 135 144
RCA 010 048 067 117 156
Realistic 019 056 073 075 095
Rotel 074 083 085
Samsung 016
Sansai 040 048 065 110 119 228
Sanyo 047 059
Scott 019 091
Sears 076
Sharp 026 094 131 175 181
Sherwood 024 030 051 055 102 105 106
Sony 015 018 053 064 088 093 101 160 166 184 218
Soundesign 036
SSI 068
Taekwang 138
Teac 005 019 049 111 212 217
Theta Digital 136
Toshiba 060 087 140 198
Yamaha 021 023 026 067 089 129 169 173 177 205 232
Zenith 143 210

LaserDisc Setup Codes

Denon 250 251
Funai 245
Kenwood 236 249
Magnavox 237 246
Marantz 252

Mitsubishi 246
NAD 246
Optimus 236 239
Panasonic 243
Philips 237
Pioneer 244 246
Radio Shack 245
RCA 235
Realistic 239
Runco 247
Sanyo 241
Sharp 236 249
Sony 240 242
Technics 243
Theta Digital 237
Toshiba 246 249
Yamaha 248 238

DCR/DMX

DMX-DJ 254
Maestro II 255