

# CheckMate™ IV

Model RT-U49E

## 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 IV, Model RT-U49E, universal remote control is simple to program, easy to use, and can operate up to four (4) electronic devices, which include:

<b>CABLE</b>	Cable television converters
<b>TV</b>	Televisions
<b>VIDEO</b>	VCR, DVD players
<b>AUDIO</b>	Audio-video (A/V) receivers Laser Disk (LD) players DMX & DCR Digital Music Converters

Your remote control is pre-programmed to operate the Scientific-Atlantra Explorer® and Pioneer Voyager® digital converters. However, it must be programmed (set-up) to operate your TV, VCR and AUDIO devices.

Programming your remote is a simple procedure using Point and Press™ Programming, an automatic method whereby the remote self-programs to each of your devices, eliminating the need to use codes. Programming your remote can also be done by entering code numbers.

### 2. Before Getting Started

Some of the special features on your remote control are:

#### Cable Pre-Programmed

Your remote control is pre-programmed to operate the Scientific-Atlantra Explorer® and Pioneer Voyager® digital converters. If you are operating either of these converters, no cable programming is necessary.

#### Point and Press™ Programming

Lets you program your TV, VCR 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 [BYPASS] buttons. For more information, see section 13.

#### [DEVICE]

This button lets you select the operating mode of the remote control.

Press [DEVICE] and the current mode button will

illuminate. While the current mode button is illuminated, press one of the other non-illuminated mode buttons to operate a different device.

#### Memory Guard™

Eliminates reprogramming after battery changes provided new batteries are installed within 4 hours of removal of old batteries.

### 3. Installing / Replacing Batteries

Install two (2) "AAA" batteries as indicated by the diagram in the battery compartment.

When the batteries become too weak to operate the remote control properly, the mode keys will become dim or not illuminate at all during use. When this happens, install 2 new "AAA" size batteries.

Your remote control has Memory Guard™, which eliminates reprogramming after battery changes provided new batteries are installed within 4 hours of removal of old batteries.

### 4. Programming Your Cable Converter

**Your remote control is pre-programmed to operate the Scientific-Atlantra Explorer® and Pioneer Voyager® digital converters. If you are operating either of these converters, no cable programming is necessary - proceed to section 5.**

If you need to operate another converter, 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 converter...

1. Turn on your cable converter.
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 will illuminate.
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 2 times and go out.

Cable brand & setup code \_\_\_\_\_

## 5. Programming Your TV

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 converter.

### To program (setup) your TV...

1. Turn on your TV.
2. Press [DEVICE], then [MUTE] together - hold **both** buttons down until the lighted mode buttons start blinking in sequence.
3. Press [TV]. The [TV] button will illuminate.
4. a. Press and hold [CH π] until your TV turns off. As soon as your TV turns off, release [CH π].  
  
OR  
  
b. From the TV Setup Code list, locate and enter the 3-digit codes until your TV turns off.
5. Press [MUTE]. If your TV turns back on, press [TV] to lock in the code. The [TV] button will blink 2 times and go out.

If your TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your TV off and on.

TV brand & setup code \_\_\_\_\_

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

## 6. Programming Your VCR or DVD Player

### To program (setup) your VCR or DVD player...

1. Turn on your VCR or DVD player.
2. Press [DEVICE], then [MUTE] together - hold **both** buttons down until the lighted mode buttons start blinking in sequence.
3. Press [VIDEO]. The [VIDEO] button will illuminate.

4. a. Press and hold [CH π] until your VCR or DVD turns off. As soon as your VCR or DVD turns off, release [CH π].  
OR  
  
b. From the VCR or DVD Setup Code list, locate and enter the 3-digit codes until your VCR or DVD player turns off.
5. Press [MUTE]. If your VCR or DVD player turns back on, press [VIDEO] to lock in the code. The [VIDEO] button will blink 2 times and go out.

If your VCR or DVD doesn't turn back on, repeat steps 4 and 5 above until you can turn your VCR or DVD off and on.

VCR / DVD brand & setup code \_\_\_\_\_

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

## 7. Programming Your Audio Device

### To program (setup) your audio-video receiver, laser-disk player, or digital music converter....

1. Turn on your audio-video receiver, laser-disk player, or digital music converter.
2. Press [DEVICE], then [MUTE] together - hold **both** buttons down until the lighted mode buttons start blinking in sequence.
3. Press [AUDIO]. The [AUDIO] button will illuminate.
4. a. Press and hold [CH π] until your audio device turns off. As soon as your audio device turns off, release [CH π].  
  
OR  
  
b. From the Audio Setup Code list below, locate and enter the 3-digit codes until your device turns off.
5. Press [MUTE]. If your audio device turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink 2 times and go out.

If your audio device doesn't turn back on, repeat steps 4 and 5 above until you can turn your audio / auxiliary device

off and on.

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

## 8. Operating Your Converter

Your remote control is designed to operate **all** the features and functions of your advanced cable converter.

**To select your remote's CABLE mode and operate your converter, press [DEVICE] then [CABLE]. The [CABLE] button will blink 3 times. Then press...**

[CABLE]	CABLE on / off.
[TV]	TV on / off.
[VIDEO]	VCR/ DVD on / off.
[AUDIO]	AUDIO on / off.
[CH π] / [CH θ]	Increases / decreases CABLE channel.
[VOL π] / [VOL θ]	Increases / decreases CABLE volume.
[MUTE]	Mutes CABLE volume.
[EXIT]	Exits on-screen menu, view guide, interactive guides
[SETTINGS]	Displays programs settings.
[GUIDE]	Displays interactive program guide.
[INFO]	Displays channel, time information.
[FAV]	View favorite channels.
[PG π] / [PG θ]	Page up / down through menus, view guide.
[VOD ⏮] / [VOD ⏭]	Rewind (⏮) or fast-forward (⏭) through a Video-on-Demand event.
[◀], [▶], [⏪], [⏩]	Navigate on-screen menus, program guide, PPV events and interactive services.
[SEL]	Chose menu options, interactive screen items.
[  ]	Pause a Video-on-Demand event.
[■]	Stop a Video-on-Demand event.
[●]	Record a Video-on-Demand event
[>]	Play a Video-on-Demand event.
[A], [B], [C]	On screen decision buttons.
[0] - [9]	Numeric entry buttons.
[BYPASS]	Switch between cable converter and TV.
[Last]	Last channel viewed.

**In your remote's cable mode, you can also press the blue buttons at the bottom to operate your VCR's basic**

functions...

[<<]	VCR / DVD rewind.
[>]	VCR / DVD play.
[>>]	VCR / DVD fast-forward.
[II]	VCR / DVD pause.
[■]	VCR / DVD stop.
[●]	VCR record.

## 9. Operating Your TV

Your remote control can operate many functions of your TV, including setup and picture-in-picture functions on most leading brands. These include RCA, ProScan, GE, Hitachi, Toshiba, JVC, Sharp, Panasonic, Zenith, SONY, Mitsubishi, Phillips, and Magnavox.

**To select your remote's TV mode and operate your TV, press [DEVICE] then [TV]. The [TV] button will blink 2 times. Then press...**

[TV]	TV on / off.
[CABLE]	CABLE on / off.
[VIDEO]	VCR / DVD on / off.
[AUDIO]	AUDIO on / off.
[CH π] / [CH θ]	Increases / decreases TV channels.
[VOL π] / [VOL θ]	Increases / decreases TV volume.
[MUTE]	Mutes TV volume.
[0] – [9]	Numeric entry buttons.
[SETTINGS] or [SEL]	Accesses TV's on-screen menus.
[BYPASS] / [TV/VCR]	Change TV's video inputs.
[>]	View last TV channel
[INFO]	Displays TV channels and time.
[PIP]	Picture-in-picture on / off.
[POS]	Picture-in-picture position.
[SWAP]	Picture-in-picture swap.
[FRZ]	Picture-in-picture freeze.
[◀], [▼], [▶], [▲]	Navigates TV's menu.
[II]	Press after 0-9 to change channels on some TV's
[C]	Sleep / timer functions.

**In your remote's TV mode, you can also press the blue buttons at the bottom to operate your VCR's basic functions...**

[<<]	VCR / DVD rewind.
[>]	VCR / DVD play.
[>>]	VCR / DVD fast-forward.
[II]	VCR / DVD pause.
[■]	VCR / DVD stop.
[●]	VCR record.

## 10. Operating Your VCR or DVD Player

Your remote control can operate many functions of your VCR or DVD player.

**To select your remote's VIDEO mode and operate your VCR or DVD, press [DEVICE] then [VIDEO]. The [VIDEO] button will blink 3 times. Then press...**

[VIDEO]	VCR / DVD power on / off.
[CABLE]	CABLE on / off.
[TV]	TV on / off.
[AUDIO]	Audio on / off.
[CH π] / [CH θ]	Increases / decreases VCR channels, or DVD skip "+ / -".
[0] – [9]	Enter VCR channels.
[BYPASS] / [TV/VCR]	Change VCR's video inputs.
[EXIT]	DVD clear functions.
[SETTINGS]	DVD menu functions.
[GUIDE]	DVD guide functions.
[INFO]	DVD program information.
[◀], [▼], [▶], [▲]	Navigate DVD menu.
[II]	DVD enter functions.
[A]	DVD subtitle on / off.
[>]	DVD return function.

**In your remote's VIDEO mode, you can also press the blue buttons at the bottom to operate your VCR's basic functions...**

[<<]	VCR / DVD rewind.
[>]	VCR / DVD play.
[>>]	VCR / DVD fast-forward.
[II]	VCR / DVD pause.
[■]	VCR / DVD stop.
[●]	VCR record.

## 11. Operating Your Audio Device

Your remote control can also operate many functions of your audio-video receiver, laser disk player, or DMX / DCR digital music converter.

**To select your remote's AUDIO mode and operate your video devices, press [DEVICE] then [AUDIO]. The [AUDIO] button will blink 2 times. Then press...**

**For Audio / Video (A / V) Receivers, press...**

[AUDIO]	A/V receiver on / off.
[VOL π] / [VOL θ]	Increases / decreases volume.

[MUTE]	Mutes volume.
[CH π] / [CH θ]	Next / last preset tuner channel.
[1]	Select "Tuner" input.
[2]	Select "CD" input.
[3]	Select "Tape # 1" input.
[4]	Select "Tape # 2" input.
[5]	Select "Phone" input.
[6]	Select "VCR # 1" input.
[7]	Select "VCR #2" input.
[8]	Select "LD" input.
[9]	Select "AUX" input.
[0]	Select "TV" input.
[BYPASS] / [TV/VCR]	AM / FM on tuner.

**For Laser Disk players, press...**

[AUDIO]	LD player on / off.
[CH π] / [CH θ]	LD >>  or <<
[<<]	LD rewind.
[>]	LD play.
[>>]	LD fast-forward.
[II]	LD pause.
[■]	LD stop.
[●]	LD open / close.

**For DCR and DMX Digital Music Converters, press...**

[AUDIO]	DCR / DMX on / off.
[VOL π] / [VOL θ]	Increases / decreases volume.
[MUTE]	Mutes volume.
[CH π] / [CH θ]	Change music selections.
[0] - [9]	Enter selections directly.

## 12. Programming Volume Control

When you first program your remote, each device controls its own volume / mute.

**To control volume / mute through your TV or Audio device in the remote's cable mode...**

1. Press [DEVICE], then [MUTE] together - hold both down until the lighted mode buttons start blinking in sequence.
2. Press [CABLE] to select the cable mode. The [CABLE] button will illuminate.
3. Press [VOL π], then [TV] for TV volume. Or [VOL π] then [AUDIO] for audio volume. The [CABLE] button will blink 2 times and go out.

To return volume control back to your converter, repeat steps

1. and 2. above, then press [VOL π], then [CABLE] in step 3.

### To control volume / mute through your TV or Audio device in the remote's video mode...

1. Press [DEVICE], then [MUTE] together - hold both down until the lighted mode buttons start blinking in sequence.
2. Press [VIDEO] to select the video mode. The VIDEO button will illuminate.
3. Press [VOL π], then [TV] for TV volume. Or [VOL π] then [AUDIO] for audio volume. The [VIDEO] button will blink 2 times and go out.

## 13. Your Remote's SmartKeys™

Your remote is equipped with three (3) SmartKeys™ ([CBL], [TV], [BYPASS]) that operate in its cable mode.

Each SmartKey™ can be programmed so whenever it's pressed, it can transmit up to 8 individual button presses in sequence.

### Programming and using the [CABLE] SmartKey™

The [CABLE] button normally turns on / off your cable converter.

You can program the [CABLE] SmartKey™ to turn on your converter, TV, VIDEO and AUDIO devices with one button press.

1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
2. Press [CABLE], then [SEL] together – hold both down together until the [CABLE] button illuminates.
3. In this order, press [TV], [VIDEO], [AUDIO]. The [CABLE] button will blink and remain illuminated.
4. Press [CH π] to lock in this setting. The [CABLE] button will blink 2 times and go out.

To return the [CABLE] button to its normal default setting, repeat steps 1 and 2 above, then press [CH 0].

### Programming and using the [TV] SmartKey™

The [TV] button normally turns on / off your TV.

You can program the [TV] SmartKey™ so whenever it is pressed, it will turn on your TV, then tune your TV to its correct

output channel (typically 3) with one button press.

1. Press [DEVICE], then [CABLE] to select the CABLE mode of your remote.
2. Press [TV], then [SEL] together – hold both down together until the [TV] button illuminates.
3. In this order, press [0], [3]. The [TV] button will blink and remain illuminated.
4. Press [CH π] to lock in this setting. The [TV] button will blink 2 times and go out.

To return the [TV] button to its normal default setting, repeat steps 1 and 2 above, then press [CH 0].

### Programming and using the [BYPASS] SmartKey™

The [BYPASS] button (CABLE mode) normally puts your converter in a BYPASS mode. While the converter is in its BYPASS mode, you can record one program on your VCR while watching a different program through your TV. When exiting your converter's BYPASS mode, your TV must be re-tuned to its correct output channel (typically 3) for proper cable reception.

You can program the [BYPASS] SmartKey™ to automatically tune your TV to its correct output channel.

1. Press [DEVICE], then [CABLE] to select the Cable mode of your remote.
2. Press [BYPASS], then [SEL] together – hold both down together until the [CABLE] button illuminates.
3. In this order, press [DEVICE], [TV], [0], [3]. The [CABLE] button will blink and remain illuminated.
4. Press [CH π] to store the setting. The [CABLE] button will blink 2 times and go out.

To return the BYPASS SmartKey™ to its normal default setting, repeat steps 1 and 2 above, then press [CH 0].

**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.

## 14. Programming a 2<sup>nd</sup> TV, VCR, DVD

Instead of programming an audio device, you can program your remote to operate a 2<sup>nd</sup> TV, 2<sup>nd</sup> VCR, or 2<sup>nd</sup> DVD player.

Here's an example of how you would program a second TV to

your remote's [AUDIO] button...

1. Turn on your 2<sup>nd</sup> 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 π] until your 2<sup>nd</sup> TV turns off. As soon as your 2<sup>nd</sup> TV turns off, release [CH π].  
  
OR  
  
b. From the TV Setup Code list, locate and enter the 3-digit codes until your 2<sup>nd</sup> TV turns off.
5. Press [MUTE]. If your 2<sup>nd</sup> TV turns back on, press [AUDIO] to lock in the code. The [AUDIO] button will blink 2 times and go out.

If your 2<sup>nd</sup> TV doesn't turn back on, repeat steps 4 and 5 above until you can turn your 2<sup>nd</sup> TV off and on.

**NOTE** when using the Point and Press™ Programming method (step 4a.). If you find a code that turns your 2<sup>nd</sup> TV off but not back on, you may have gone past the correct matching code. Try pressing [CH 0] one step at a time until find a code that turns your 2<sup>nd</sup> TV back on.

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

## 15. Code Number Readback

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

1. Press [DEVICE], then [MUTE] - hold both down until the illuminated mode buttons start blinking in sequence.
2. Press [CABLE] to identify your cable converter code. Or [TV], [VIDEO], [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.

## 16. Helpful Tips & Troubleshooting

1. Your remote is equipped with a Point and Press™ quick-programming sticker on the back of its case. This will help you quickly program the remote without using codes.
2. 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 20 seconds.

When locking in your devices, the illuminated mode button will blink 2 times and go off.

3. 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...
  - a. the correct code has not been found. Continue pressing [CH π] until your devices turn on and off.
  - b. you may have gone past the correct matching code. Try pressing [CH 0] one step at a time until find a code that turns your converter back on.
4. If you have any questions concerning the operation of your cable converter, contact your cable operator.

### Cable Setup Codes

Manufacturer	Model	Code
PIONEER	BA-V1000 / 2000	120
	BA-9000	121
	VOYAGER	001
SCIENTIFIC-ATLANTA	EXPLORER	001

### TV Setup Codes

Manufacturer	Codes
A MARK	112 143
ADMIRAL	072 081 160 161
AKAI	001 146
AMPRO	073 167
ANAM	043 054 056 080 112 131 055
AOC	058 001 004 112
AUDIOVOX	076
CANDLE	001 002 003 004
CAPEHART	058
CETRONIC	043

CITIZEN	001 002 003 043 101 143 004
CLASSIC	103
CONCERTO	043
CONTEC	004
CORONADO	043 051
CRAIG	143
CROWN	054 043
CURTIS MATHES	143 043
CXC	001 004 101 143
DAEWOO	043
	004 016 017 043 044 055 071
	076 103 107 111 114 120 123
	125 127 136 143
DAYTRON	004 143
DYNASTY	043
DYNATECH	062
ELECTROHOME	024 076 143
EMERSON	004 005 028 043 048 051 076
	096 143 151 153 154 155
FISHER	007 057
FUNAI	028 043
FUTURETECH	043
GE	001 073 130 144 160 161 004
	008 009 034 056 074 091 155
GOLDSTAR	004 106 119 110 112 113 127
	143
HALL MARK	004
HITACHI	011 163 004 007 072 010 012
	023 075 143 158
INFINITY	164
INKEL	129
JBL	164
JCP	001
JCPENNY	004 008 009 024 030 065 101
	143 156 160
JENSEN	013
JVC	038 070 034 083
KENWOOD	001 070
KLOSS	002 059
KTV	001 043 143 154
LOGENET	072
LOGIK	072
LUXMAN	004
LXI	007 015 052 081 160 164
MAGNAVOX	001 003 004 022 059 060 161
	063 064 094 127 160 164
MARANTZ	164 001
MATSUI	164
MEMOREX	004 007 072
METZ	088
MGA	024 001 004 042
MINERVA	088
MITSUBISHI	024 004 028 040 042 109 124
	146
MTC	001 004 062 101

NAD	015 025
NEC	001 130 134 040 056 007 019
	024
NIKEI	043
ONKING	043
ONWA	043
OPTONICA	019 081
PANASONIC	034 056 080 164
PHILCO	001 003 004 024 056 059 060
	063 064 127 143 164
PHILIPS	164 005 038 093 127 001
	003 004 059
PIONEER	023 025 135 176 001 004 018
PORTLAND	004 143
PROSCAN	144 160 161 167
PROTON	004 058 131 143 171 173 193
QUASAR	034 056
RADIO SHACK	004 019 043 127 143
RCA	161 144 160 156 065 001 004
	023 024 056 074 152
REALISTIC	007 019
RUNCO	072 169 073 130 179 180 181
SAMPO	001 004 058
SAMSUNG	004 101 127 133 143 160 089
	105
SANYO	007 053 057 082 020 021 033
SCOTT	004 028 043 048 143
SEARS	004 007 015 028 030 057 082
	094 143 160
SELECO	189
SHARP	081 014 019 028 004 022 143
	175 029 181
SIGNATURE	072
SONY	070 085 126 139
SOUNDESIGN	003 004 028 043
SPECTRON	112
SSS	004 043
SUPRE MACY	002
SYLVANIA	001 003 044 059 060 063 064
	127 160 164
SYMPHONICS	052
TANDY	081
TATUNG	056 062
TETNICS	034 080
TECHWOOD	004
TEKNIKA	002 003 004 024 028 043 072
	101 143
TELERNET	072
TERA	172
TMK	004
TOSHIBA	015 030 007 040 062 101
TOTEVISION	143
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDIKRON	174 188

WESTING HOUSE 076  
 VIDTECH 004  
 WARDS 004 064 164 008 009 019 028  
 060 061 063 072 074 143  
 YAMAHA 001 004  
 YORK 004  
 YUPITERU 043  
 ZENITH 072 073 095 103  
 ZONDA 112

MARANTZ 237  
 MARTA 067 069 012 031  
 101  
 MATSUI 027 030  
 MEI 031  
 MEMOREX 040 101 001 014 031 034 053  
 072 134 139  
 045 046 059  
 MGA 004 020  
 MINOLTA 059 061 051 142 004 046 020  
 MITSUBISHI 045 227  
 034 040  
 MTC 024 034  
 MULTITECH 012 023 043 048  
 NEC 043  
 NORMENDE 053 054  
 OPTONICA 031 070 133 140 163 228 242  
 PANASONIC 004 020 031 063  
 PENTAX 031 034 067  
 PHILCO 031 034 054 067 101 150  
 PHILIPS 101  
 PILOT 021 004 048 229  
 PIONEER 108  
 PORTLAND 230  
 PROCAN 072  
 PULSAR 014  
 QUARTZ 031 070 133 140 163 014  
 QUASAR 101  
 RADIO SHACK 107 109 144 041 031 004 020  
 RCA 034 040 140 147 158 231 243  
 001 008 010 014 031 034 040  
 REALISTIC 053 054 101  
 058  
 RICO 072  
 RUNCO 014  
 SALORA 040 017 107 109 113 115 124  
 SAMSUNG 122 236 248  
 043 048 135  
 SANSUI 001 014 040 134  
 SANYO 017 037 129 131  
 SCOTT 001 004 008 010 014 017 020  
 SEARS 081 101  
 031 053 054 159  
 SHARP 024  
 SHINTOM 056 057 058 001 052 053 031  
 SONY 009 154 171 077 232 244  
 034  
 SOUNDESIGN 004  
 STS 031 034 059 067  
 SYLVANIA 034  
 SYMPHONIC 010 034  
 TANDY 043  
 TATUNG 034 043  
 TEAC 031 070  
 TECHNICS 031 034 101  
 TEKNIKA

THOMAS 034  
 TMK 006  
 TOSHIBA 017 131 004 008 059 082 150  
 233 245  
 TOTEVISION 040 101  
 UNITECH 040  
 VECTOR RESEARCH 012  
 VICTOR 048  
 VIDEO CONCEPTS 012 034 046 141  
 VIDEOSONIC 040  
 WARDS 001 004 017 024 031 034 040  
 053 054 131  
 YAMAHA 012 034 043 234 246  
 ZENITH 072 034 056 058 048 080 101  
 153 247

### VCR / DVD Player Codes

Manufacturer	Codes
AIWA	034 161
AKAI	043 046 124 142 146
AMPRO	072
ANAM	031 103
AUDIO DYNAMICS	012 023 043
BROKSONIC	035 037 129
CANON	028 031
CAPEHART	108
CRAIG	001 040 135
CURTIS MATHES	031 041
DAEWOO	005 108 111 117 017 065 007 010
DAYTRON	108
DBX	012 023 043
DENON	226 240
DYNATECH	034 053
ELECTROHOME	059
EMERSON	006 029 035 037 129 153 017 025 027 031 034 036 046 101 131 138
FISHER	001 010 008 009
FUNAI	034
GE	031 072 144 147 063 107 109 243
GO VIDEO	132 155 040 136
GOLDSTAR	101 004 012 020
HARMAN KARDON	012 045
HITACHI	004 026 034 043 063 137 150
INSTANTREPLAY	031
JCL	031
JCPENNY	004 012 031 040 101
JENSEN	043
JVC	048 043 055 060 130 150 152 012 031 238 241
KENWOOD	014 034 048 150
LG	235 247
LLOYD	034
LXI	001 009 017 034 101 004 106
MAGIN	040
MAGNAVOX	067 031 034 068 041 156 170

Manufacturer	Codes
ADC	200
ADCOM	072 082 092 161
AIWA	025 071 091 100 104 114 170 171
AKAI	093 138
AMC	125 126 127
ANGSTROM	142
ARCAM	141
AUDIO ACCESS	147
AUDIO ALCHEMY	135
AUDIO FILE	203
AUDIO MATRIX	077
AUDIO TECHNICA	134
B & K	096 097
BOSE	070 113 170
BRYSTON	015
CARVER	003 008 014 016 027 028 040 061 090 099 151 203
CASIO	204
CHIRO	140
CINEMA SOUND	001 134
CITATION	148
CLARION	026
CURTIS MATHES	204
DENON	001 056 105 119 151 155 188 199
ENLIGHTENED AUDIO	049 050
FISHER	151
FOSGATE	062 157
GOLDSTAR	006 072
HARMON KARDON	060 064 066 115 153 157 162
HITACHI	020
INKEL	005
JCPENNY	102 204

### AUDIO Setup Codes

Manufacturer	Codes
ADC	200
ADCOM	072 082 092 161
AIWA	025 071 091 100 104 114 170 171
AKAI	093 138
AMC	125 126 127
ANGSTROM	142
ARCAM	141
AUDIO ACCESS	147
AUDIO ALCHEMY	135
AUDIO FILE	203
AUDIO MATRIX	077
AUDIO TECHNICA	134
B & K	096 097
BOSE	070 113 170
BRYSTON	015
CARVER	003 008 014 016 027 028 040 061 090 099 151 203
CASIO	204
CHIRO	140
CINEMA SOUND	001 134
CITATION	148
CLARION	026
CURTIS MATHES	204
DENON	001 056 105 119 151 155 188 199
ENLIGHTENED AUDIO	049 050
FISHER	151
FOSGATE	062 157
GOLDSTAR	006 072
HARMON KARDON	060 064 066 115 153 157 162
HITACHI	020
INKEL	005
JCPENNY	102 204

JENSEN	058
JVC	013 163 177 178
KENWOOD	005 026 057 086 095 154 166
KOSS	102
KRELL	150
KYOCERA	200
LEXICON	120 167 171 172
LINN	124
LUXMAN	004 029 035 137 139 165
LXI	204
MAGNAVOX	043 152 164 191
MARANTZ	027 028 048 063 090 191
MCINTOSH	173
MCS	204
MERIDIAN	009 051 121
MITSUBISHI	180
MONDIAL	022 023 042 073 075
NAD	048
NAKAMICHI	079 087 111 182 183
NEC	080
ONKYO	001 012 030 041 044 046 081 103 107 108
OPTIMUS	017 026 036 138
PANASONIC	007 088 129 130 132 195
PHILIPS	063 188 189 191
PIONEER	001 039 045 054 069 078 128 158 168
PROCEED	144
RCA	010 067 117 156
REALISTIC	019 034 037 047
ROTEL	074 083 085
SAMSUNG	123
SANSUI	032 063 110 116
SANYO	151
SCOTT	019
SEARS	204
SHARP	026 057 094 175
SHERWOOD	024 038
SONY	011 018 052 053 055 084 089 112 186 187
SOUNDESIGN	036
SSI	068
TAEKWANG	138
TEAC	019 059 109 111
TECHNICS	076 080 088 098 122 193
THETA DIGITAL	065
TOSHIBA	033 131
YAMAHA	002 021 026 031 067 101 118 192
ZENITH	106 143

CALIFORNIA AUDIO	241
DAEWOO	231
DENON	237 250 251
DMX-DJ	254
FISHER	241
GOLDSTAR	234
KENWOOD	232
MAESTRO II	255
MAGNAVOX	233 247
MITSUBISHI	247
NAD	247
OPTIMUS	239
PANASONIC	228 241 243
PHILIPS	233
QUASAR	241
PIONEER	227 245 247
RCA	238
REALISTIC	239
SAMSUNG	230 236
SHARP	232 235
SONY	229
TECHNICS	228 241 243
TOSHIBA	232
YAMAHA	240 242 249

#### Digital Music Converter Setup Codes

Manufacturer	Codes
DMX-DJ	254
MAESTRO II	255

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#### Laser Disc Player Setup Codes

Manufacturer	Codes
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