UNIVERSAL ELECTRONICS

MILLENNIUM™ 4
Universal Remote Control

User's Guide

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INTRODUCTION

The Universal Electronics Millennium™ 4 is our latest generation universal remote control. It is designed with sophisticated technology that will allow you to finally consolidate the clutter of all of the original remote controls in your home entertainment system. It's packed with easy-to-use features such as:

- Preprogrammed to operate the cable converter supplied by your cable system provider

- Preprogrammed technology for easy setup

- Convenient hide-away sliding door to conceal less-used functions

- Color-coded keys to quickly locate popular functions

- Cable ID Lock to lock your remote control for use only with the cable converter

- Channel Lock to lock channel selection only to the cable converter

- Code library for video and audio components

- Code Search to help program control of older or discontinued components

Before you can use your new remote control, you will need to program it to operate the specific home entertainment components you wish to control. Follow the instructions detailed in this manual to set up your Millennium 4 and enjoy your new remote control.

FEATURES AND FUNCTIONS

Use the illustration below to locate Millennium 4 features and then study the *Key Charts* (on the next two pages) to learn how they function.
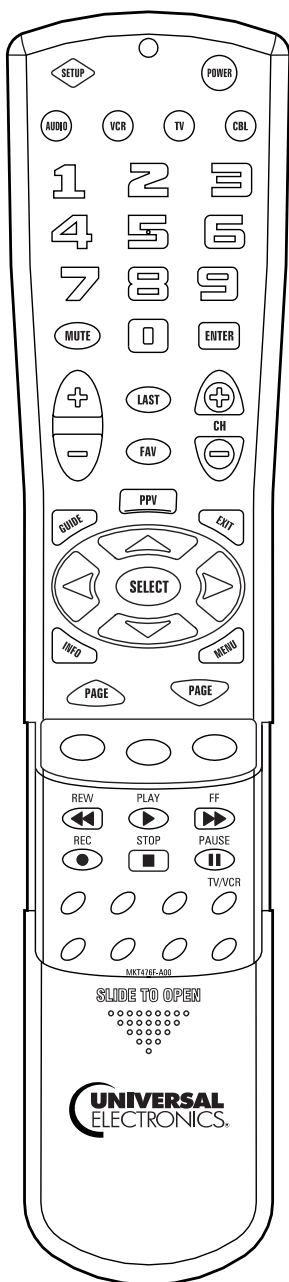
Key Charts

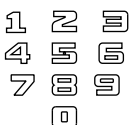|	
○	The LED (red light) blinks to show that the remote control is working and is sending signals.
(AUDIO) (VCR) (TV) (CBL)	Press **AUDIO**, **VCR**, **TV**, or **CBL** once to select a home entertainment component to control.
(POWER)	Press **POWER** once to turn on or off the selected home entertainment component.
(SETUP)	Use **SETUP** for all programming sequences.
1 2 3 4 5 6 7 8 9 0	Use the keypad (**0** ~ **9**) to directly select channels (e.g., 09 or 31).
(MUTE)	Press **MUTE** once to turn sound off or on.
(ENTER)	Press **ENTER** once after entering channel numbers on some TV models.
VOL+ / VOL-	Use **VOL+** (or **VOL-**) to raise (or lower) the sound volume.
CH+ / CH-	Use **CH+** (or **CH-**) to select the next higher (or lower) channel.
(LAST)	Press **LAST** once to recall the last channel and to page back one screen in the main menu.
(FAV)	Use **FAV** to cycle through your favorite channels that are stored in your cable converter.
(GUIDE)	Use **GUIDE** to display the program guide.
(PPV)	Press **PPV/LOCK** once to display the pay per view menu or to lock out a specific channel on your cable converter.
(EXIT)	Use **EXIT** to exit out of your cable converter's menu and guide.

FEATURES AND FUNCTIONS

Key Charts (continued)

Use cursor keys to move the cursor in the program guide and menu screens.

Use **SELECT/OK** to choose options, PPV events, and to tune programs from the program guide.

Use **INFO** to display current channel and program information.

Press **MENU** once to display your cable converter's screen menu.

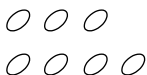Use **PAGE** △ (or **PAGE** ▽) to page up or down) through menu screens and the program guide.

Slide the door open to reveal less-often used keys such as VCR transport buttons and cable converter features.

In the **VCR** and **TV** modes, use the **REW**, **PLAY**, **FF**, **REC**, **STOP**, and **PAUSE** keys to control your VCR. To record a program, press **REC** twice.

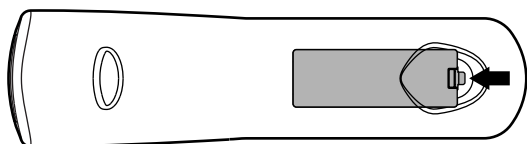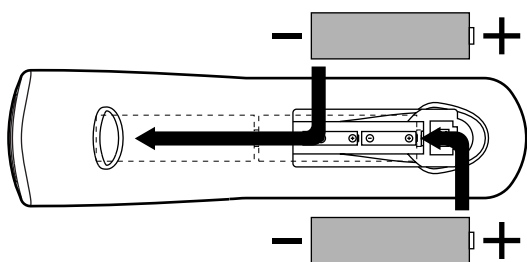Reserved for cable converter features (see your cable converter manual).

Press **TV/VCR** once to switch the VCR to view TV channels or tape. This key will also control the input select feature on most TVs.
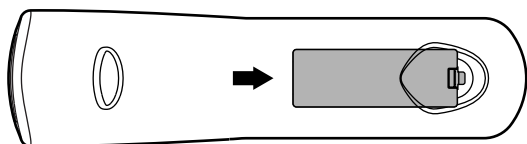
INSTALLING BATTERIES

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1. On the back of the Millennium 4, push the tab and lift off the battery cover.

2. Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.

3. Press the battery cover back into place. The tab should click when the cover is locked.

4. (POWER) Test the unit by pressing **POWER** and any mode key (e.g. **AUDIO**, **VCR**, **TV**, or **CBL**). If the batteries are inserted correctly, the LED will blink once.

NOTE: Whenever batteries need replacement, the Millennium 4 will blink twice with every key press. Simply replace the batteries and the Millennium 4 will be restored to its full functionality, complete with your favorite settings.

PROGRAMMING TV CONTROL

NOTE: If you own a TV/VCR combination, skip this section and perform "Programming TV/VCR Combo Control" on page 16.

Locate the brand name of your TV in the *Setup Codes for TVs* in the next section, and write it in the space below.

TV Brand: _____

The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your TV:

1.　　　　Turn on the TV.

2. (TV)　On the Millennium 4, press **TV** once. Press and hold **SETUP** until the LED blinks twice, then
   (SETUP)　release **SETUP**.

3.　　　　Enter the first four-digit code for your TV. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. (POWER)　Aim the Millennium 4 at your TV and press **POWER** once. The TV should turn off. If it does not, repeat steps 2 and 3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 24).

5.　　　　For future reference, write your TV code in the boxes below.

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*NOTE: Remember, to use the Millennium 4 to operate your TV, press **TV** first.*

Setup Codes for TVs:

AOC	0030, 0019
Admiral	0093, 0463
Aiko	0092
Akai	0030
Alaron	0179
America Action	0180
Anam	0180
Audiovox	0451, 0180, 0623, 0092
Baysonic	0180

Belcor	0019
Bell & Howell	0154, 0016
Bradford	0180
Brockwood	0019
Broksonic	0236, 0463
CXC	0180
Candle	0030, 0056
Carnivale	0030
Carver	0054
Celebrity	0000
Cineral	0451, 0092
Citizen	0060, 0030, 0056, 0092, 0280
Concerto	0056
Contec	0180
Craig	0180
Crosley	0054
Crown	0180
Curtis Mathes	0047, 0747, 0054, 0154, 0051, 0451, 0093, 0060, 0030, 0056, 0145, 0016, 0166
Daewoo	0451, 0019, 0623, 0624, 0092
Daytron	0019
Denon	0145
Dumont	0017, 0019
Electroband	0000
Emerson	0154, 0236, 0463, 0180, 0178, 0179, 0019, 0623, 0624, 0282, 0280
Envision	0030
Fisher	0154
Fujitsu	0179, 0683
Funai	0180, 0179, 0171
Futuretech	0180
GE	0047, 0747, 0051, 0451, 0093, 0178, 0021, 0282
Gibralter	0017, 0030, 0019
GoldStar	0030, 0178, 0056, 0019
Gradiente	0053, 0056
Grunpy	0180, 0179
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054
Harvard	0180
Hitachi	0056, 0145, 0016
Infinity	0054
Inteq	0017
JBL	0054
JCB	0000
JVC	0053
KEC	0180
KTV	0180, 0030, 0280
Kenwood	0030, 0019
Konka	0707, 0628, 0632, 0638, 0703
LG	0056

PROGRAMMING TV CONTROL

Setup Codes for TVs (continued):

LXI	0047, 0747, 0054, 0154, 0156, 0178
Logik	0016
Luxman	0056
MGA	0150, 0030, 0178, 0019
MTC	0060, 0030, 0056, 0019
Magnavox	0054, 0030, 0179
Majestic	0016
Marantz	0054, 0030
Matsushita	0250
Megatron	0178, 0145
Memorex	0154, 0250, 0463, 0150, 0178, 0179, 0056, 0016
Midland	0047, 0747, 0017, 0051
Minutz	0021
Mitsubishi	0093, 0150, 0178, 0019
Motorola	0093
Multitech	0180
NAD	0156, 0178, 0166
NEC	0030, 0056, 0019
NTC	0092
Nikko	0030, 0178, 0092
Onwa	0180
Optimus	0154, 0250, 0166
Optonica	0093, 0165
Orion	0236, 0463, 0179
Panasonic	0051, 0250
Penney	0047, 0747, 0156, 0051, 0060, 0030, 0178, 0021, 0056, 0019
Philco	0054, 0463, 0030, 0145, 0019
Philips	0054
Pilot	0030, 0019
Pioneer	0166
Portland	0019, 0092
Prism	0051
Proscan	0047, 0747
Proton	0178
Pulsar	0017, 0019
Quasar	0051, 0250, 0165
RCA	0047, 0747, 0090, 0051, 0093, 0019, 0278
RadioShack	0047, 0747, 0154, 0180, 0030, 0178, 0056, 0019, 0165
Realistic	0154, 0180, 0030, 0178, 0056, 0019, 0165
Runco	0017, 0030
SSS	0180, 0019
Sampo	0030
Samsung	0060, 0030, 0178, 0056, 0019
Sansei	0451
Sansui	0463
Sanyo	0154
Scimitsu	0019

Scotch	0178
Scott	0236, 0180, 0178, 0179, 0019
Sears	0047, 0747, 0054, 0154, 0156, 0178, 0179, 0056, 0171
Semivox	0180
Semp	0156
Sharp	0093, 0688, 0165
Shogun	0019
Signature	0016
Sony	0000
Soundesign	0180, 0178, 0179
Squareview	0171
Starlite	0180
Supreme	0000
Sylvania	0054, 0030
Symphonic	0180, 0171
TMK	0178, 0056
TNCi	0017
Tandy	0093
Technics	0051, 0250
Technol Ace	0179
Techwood	0051, 0056
Teknika	0054, 0180, 0150, 0060, 0179, 0056, 0019, 0016, 0092
Telefunken	0056
Toshiba	0154, 0156, 0060
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0178, 0019
Wards	0054, 0030, 0178, 0021, 0179, 0056, 0019, 0016, 0165
White Westinghouse	0463, 0623, 0624
Yamaha	0030, 0019
Zenith	0017, 0463, 0624, 0016, 0092

PROGRAMMING VCR/DVD PLAYER CONTROL

NOTE: If you own a TV/VCR combination, skip this section and perform "Programming TV/VCR Combo Control" on page 16.

Locate the brand name of your VCR in *Setup Codes for VCRs* on the next page, or your DVD player in *Setup Codes for DVD Players* on page 15, and write it in the appropriate space below.

VCR Brand: _____
or
DVD Player Brand: _____

The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your VCR or DVD player:

1. Turn on your VCR and insert a video cassette, or turn on your DVD player and insert a DVD.

2. (VCR) On the Millennium 4, press **VCR** once. Press and hold **SETUP** until the LED blinks twice, (SETUP) then release **SETUP**.

3. Enter the first four-digit code for your VCR or DVD player. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. (POWER) Aim the Millennium 4 at the VCR or DVD player and press **POWER** once. The device PLAY should turn off. If your VCR remote control (▶) does not have a POWER key, press **PLAY**. If the VCR does not respond, repeat steps 2 and 3, trying each code listed for your brand until you find one that works. If the device still does not work , try searching for the code (see *Searching For Your Code* on page 24).

5. For future reference, write your device's code and type in the boxes and space below.

   Device Type:_____

*NOTE: Remember, to use the Millennium 4 to operate your VCR or DVD player, press **VCR** first.*

Setup Codes for VCRs:

Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0037, 0000
Akai	0041
America Action	0278
American High	0035
Asha	0240
Audiovox	0037
Beaumark	0240
Bell & Howell	0104
Broksonic	0184, 0121, 0209, 0002, 0479, 0295
CCE	0072, 0278
Calix	0037
Canon	0035
Carver	0081
Cineral	0278
Citizen	0037, 0278
Colt	0072
Craig	0037, 0047, 0240, 0072
Curtis Mathes	0035, 0060, 0162, 0041
Cybernex	0240
Daewoo	0045, 0278, 0561
Denon	0042
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0479, 0561, 0295, 0294
Fisher	0047, 0104
Fuji	0035, 0033
Funai	0000
GE	0035, 0060, 0048, 0240
Garrard	0000
Go Video	0432, 0526, 0643, 0232, 0279
GoldStar	0037
Gradiente	0000
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0081
Harwood	0072
Headquarter	0046
Hitachi	0000, 0042, 0041, 0105
Hughes Network Sys.	0042
JVC	0067, 0041
Jensen	0041
KEC	0037, 0278
KLH	0072

Setup Codes for VCRs (continued):

Kenwood	0067, 0041
Kodak	0035, 0037
LXI	0037
Lloyd's	0000
Logik	0072
MEI	0035
MGA	0240, 0043
MGN Technology	0240
MTC	0000, 0240
Magnasonic	0278
Magnavox	0035, 0039, 0081, 0000
Magnin	0240
Marantz	0035, 0081
Marta	0037
Matsushita	0035, 0162, 0454
Memorex	0035, 0037, 0048, 0039, 0047, 0162, 0000, 0240, 0104, 0209, 0454, 0479, 0046
Minolta	0042, 0105
Mitsubishi	0048, 0067, 0043
Motorola	0035, 0048
Multitech	0000, 0072
NEC	0067, 0104, 0041
Nikko	0037
Noblex	0240
Olympus	0035
Optimus	0037, 0048, 0162, 0104, 0454, 0432
Orion	0184, 0209, 0002, 0479, 0295
Panasonic	0035, 0225, 0162, 0454, 0616
Penney	0035, 0037, 0042, 0240
Pentax	0042, 0105
Philco	0035, 0209, 0479
Philips	0035, 0081, 0618
Pilot	0037
Pioneer	0067
Polk Audio	0081
Profitronic	0240
Proscan	0060
Protec	0072
Pulsar	0039
Quarter	0046
Quartz	0046
Quasar	0035, 0162, 0454
RCA	0035, 0060, 0048, 0042, 0240, 0105, 0060
RadioShack	0000
Radix	0037
Randex	0037
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0046

ReplayTV	0614, 0616
Runco	0039
STS	0042
Samsung	0045, 0240
Samtron	0643
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 0479
Sanyo	0047, 0240, 0104, 0046
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046, 0105
Semp	0045
Sharp	0048
Shintom	0072
Shogun	0240
Singer	0072
Sony	0035, 0032, 0000, 0636, 0033
Sylvania	0035, 0081, 0000, 0043
Symphonic	0000
TMK	0240
Tatung	0041
Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 0037, 0000
Thomas	0000
Tivo	0618, 0636
Toshiba	0045, 0043
Totevision	0037, 0240
Unitech	0240
Vector	0045
Video Concepts	0045
Videosonic	0240
Wards	0035, 0060, 0048, 0047, 0081, 0000, 0042, 0240, 0072
White Westinghouse	0209, 0072, 0278
XR-1000	0035, 0000, 0072
Zenith	0039, 0000, 0209, 0479, 0033

Setup Codes for DVD Players:

Aiwa	0641
Apex	0672
B & K	0655, 0662
Denon	0490, 0634
Fisher	0670
GE	0522
Gradiente	0651
Harman/Kardon	0582
Hitachi	0573, 0664
Hiteker	0672
JVC	0558, 0623
Kenwood	0534, 0682

PROGRAMMING VCR/DVD PLAYER CONTROL

Setup Codes for DVD Players (continued):

Konka	0711, 0719, 0720, 0721
Magnavox	0503, 0675
Marantz	0539
Mitsubishi	0521
Onkyo	0503, 0627
Optimus	0571
Oritron	0651
Panasonic	0490, 0677, 0632, 0678, 0679
Philips	0503, 0539
Pioneer	0525, 0571, 0632
Proscan	0522
RCA	0522, 0571
Samsung	0573
Sharp	0630
Sherwood	0633
Sony	0533
Technics	0490
Techwood	0692
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0503, 0591

PROGRAMMING TV/VCR COMBO CONTROL

Locate the brand name of your TV/VCR Combo in *Setup Codes for TV/VCR Combos* on the next page, and write it in the space below.

TV/VCR Combo Brand: _____

The brands are listed in alphabetical order with popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your TV/VCR Combo:

1.   Turn on your TV/VCR Combo and insert a video cassette.

2. (VCR) On the Millennium 4, press **VCR** once. Press and hold **SETUP** until the LED blinks twice, ◇SETUP then release **SETUP**.

3.   Enter the first four-digit code for your TV/VCR Combo. If you perform this procedure correctly, the LED will blink twice.

NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. (POWER) Aim the Millennium 4 at your TV/VCR Combo and press **POWER** once. The unit should turn off. If it does not respond, repeat steps 2 and 3, trying each code listed for your brand until you find one that works. If it still does not work, try searching for the code (see *Searching For Your Code* on page 24).

5. If you've found a TV/VCR setup code that works your TV/VCR Combo and a separate TV code is also listed, you'll need to program this code into the Millennium 4 to access volume control (see *Programming TV Control on* page 8).

If there is no separate TV code listed, you will need to perform the following steps to access volume control:

(SETUP) a. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

9-9-3 b. Enter **9** - **9** - **3**. The LED will blink twice.

(VCR) c. Press **VCR** once. The LED will blink twice.

6. For future reference, write your TV/VCR Combo code in the boxes below.

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*NOTE: Remember, to use the Millennium 4 to operate your TV/VCR Combo, press **VCR** first.*

Setup Codes for TV/VCR Combos:

American High	0035 (for TV use 0051)
Brocksonic	0002, 0294,
Colt	0072
Curtis Mathis	0035 (for TV use 0051)
Daewoo	0278
Emerson	0002, 0294, 0479
Funai	0000
GE	0035 (for TV use 0051), 0060 (for TV use 0047), 0048 (for TV use 0093), 0240
Hitachi	0035 (for TV use 0051), 0000
HQ	0000
Lloyds	0000
MGA	0240
Magnavox	0081 (for TV use 0054), 0035 (for TV use 0051), 0000

PROGRAMMING TV/VCR COMBO CONTROL

Setup Codes for TV/VCR Combos (continued):

Magnin	0240
Memorex	0037, 0162 (for TV use 0250)
Mitsubishi	0048 (for TV use 0093)
Orion	0002, 0294, 0479
Panasonic	0035 (for TV use 0051), 0162 (for TV use 0250)
Penney	0035 (for TV use 0051), 0240, 0162 (for TV use 0250)
Quasar	0035 (for TV use 0051), 0162 (for TV use 0250)
RCA	0060 (for TV use 0047), 0035 (for TV use 0051), 0048 (for TV use 0093)
Sansui	0000, 0479
Sanyo	0240
Sears	0000, 0037
Sharp	0048 (for TV use 0093)
Sony	0032 (for TV use 0000)
Symphonic	0000
Zenith	0000

PROGRAMMING CABLE CONVERTER (OR DBS RECEIVER) CONTROL

The Millennium 4 is preprogrammed at the factory to operate the cable converter given to you by your cable company. However, if you have another brand or model of cable converter or satellite receiver that you would like to control, then you'll need to perform the following instructions to unlock the cable key, enter in a new code, and lock the cable key again.

To Unlock the CBL Key:

1. Turn on the Cable Converter or DBS Receiver.

2. On the Millennium 4, press **CBL** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. Enter **9** - **9** - **7**. The LED will blink twice.

4. Press **CH-** once. The LED will blink twice.

To Program the CBL Key:

1. On the next page, locate the brand name of your Cable Converter in *Setup Codes For Cable Converters*, or DBS (Direct Broadcast Satellite) Receiver in *Setup Codes For DBS Receivers*, and write it in the appropriate space below.

   Cable Converter Brand: _____
   or
   DBS Receiver Brand: _____

   The brands are listed in alphabetical order with the most popular codes listed first. You will use one of these codes to reprogram the Millennium 4 to operate your Cable Converter or DBS Receiver.

2. (CBL) On the Millennium 4, press **CBL** once. Press and hold **SETUP** until the LED blinks twice, (SETUP) then release **SETUP**.

3. Enter the first four-digit code for your Cable Converter or DBS Receiver. If you perform this procedure correctly, the LED will blink twice.

   NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.

4. (POWER) Aim the Millennium 4 at your Cable Converter or DBS Receiver and press **POWER** once. The unit should turn off. If it does not respond, repeat steps 2 and 3, trying each code listed for your brand until you find one that works. If it still does not work , try searching for the code (see *Searching For Your Code* on page 24).

5. For future reference, write your device's code and type in the boxes and space below.

   Device Type:_____

*NOTE: Remember, to use the Millennium 4 to operate your Cable Converter or DBS Receiver, press **CBL** first.*

PROGRAMMING CABLE CONVERTER (OR DBS RECEIVER) CONTROL (continued)

To Lock the CBL Key:

1. On the Millennium 4, press **CBL** once. Press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **7**. The LED will blink twice.

3. Press **CH+** once. The LED will blink twice.

Setup Codes for Cable Converters:

ABC	0003, 0008
Americast	0899
Bell South	0899
General Instrument	0476
GoldStar	0144
Hamlin	0273
Jerrold	0003, 0476
Memorex	0000
Panasonic	0000
Paragon	0000
Philips	0305
Pioneer	0144, 0877, 0533
Pioneer	0533
Pulsar	0000
Quasar	0000
Regal	0273
Runco	0000
Samsung	0144
Scientific Atlanta	0008, 0477, 0877
Starcom	0003
Toshiba	0000
Zenith	0525, 0000, 0899

Setup Codes for DBS Receivers:

Echostar	0775, 1005
Expressvu	0775
GE	0566
General Instrument	0869, 0892
HTS	0775
Hughes Network Sys.	0749
JVC	0775
Mitsubishi	0749

Next Level	0869, 0892
Philips	0749, 1076
Proscan	0392
RCA	0566, 0392
RadioShack	0869
Samsung	1109
Sony	0639
Star Choice	0869
Toshiba	0749

PROGRAMMING CHANNEL CONTROL LOCK

By activating this feature, the Millennium 4 will only allow access to the channel control capabilities of your cable converter. This will guarantee that you do not inadvertently change the channel on your TV or VCR.

To Activate Channel Control Lock:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **6**. The LED will blink twice.

3. Press **CH+** once. The LED will blink twice.

4. Now, regardless of what mode you select (i.e., **TV**, **VCR**, or **CBL**), only the channel control capability of your cable converter will be accessible.

   NOTE: This feature does not affect the Audio mode.

To De-Activate Channel Control Lock:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **6**. The LED will blink twice.

3. Press **CH-** once. The LED will blink twice.

4. The Millennium 4 will again provide TV and VCR channel control capabilities while in the TV or VCR mode.

PROGRAMMING AUDIO CONTROL

Locate the brand name of your audio amplifier or receiver in one of the accompanying code lists at the end of this section. Write it in the appropriate space below.

Audio Amplifier Brand: _____
or
Audio Receiver Brand: _____

The brands are listed in alphabetical order with popular codes listed first. You will use one of these codes to program the Millennium 4 to operate your audio device:

1.　　　Turn on the audio device.

2.　(AUDIO)　On the Millennium 4, press **AUDIO** once. Press
　(SETUP)　and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3.　　　Enter the first four-digit code for your audio device. If you perform this procedure correctly, the LED will blink twice.

> *NOTE: If the LED did not blink twice after entering the code's last digit, then repeat steps 2 through 3 and try entering the same code again.*

4.　(POWER)　Aim the Millennium 4 at your audio device and press **POWER** once. The unit should turn off. If it does not respond, repeat steps 2 and 3, trying each code listed for your brand until you find one that works. If it still does not work , try searching for the code (see *Searching For Your Code* on page 24).

5.　　　For future reference, write your device's code and type in the boxes and space below.

☐ ☐ ☐ ☐

*NOTE: Remember, to use the Millennium 4 to operate your audio device, press **AUDIO** first.*

Setup Codes for Audio Amplifiers:

Denon	0160
GE	0078
Harman/Kardon	0892
JVC	0331
Marantz	0892

Optimus	0395
Panasonic	0308
Philips	0892
Polk Audio	0892
Realistic	0395
Sony	0689
Soundesign	0078
Technics	0308
Victor	0331
Wards	0078
Yamaha	0354

Setup Codes for Audio Receivers:

ADC	0531
Adcom	0616
Aiwa	1405, 0121, 0405
Capetronic	0531
Carver	0008
Casio	0195
Clarinette	0195
Denon	1104, 1160
Garrard	0463
Harman/Kardon	0110, 0891
JBL	0110
JVC	0074
Kenwood	1313, 1027, 1570, 1569, 0186, 0077
Lloyd's	0195
MCS	0039, 0346
Magnavox	0531, 0195, 0391
Marantz	0039
Modulaire	0195
Nakamichi	0097
Onkyo	0135
Optimus	1023, 0531, 0670, 0186, 0177
Panasonic	1518, 0039
Penney	0195
Philips	1269, 1120, 0391
Pioneer	1023, 0531, 0014, 0150, 0630
Proscan	1254
Quasar	0039
RCA	1023, 1254, 0531, 0054, 0346
Realistic	0195
Sansui	0346
Sharp	0186
Sony	1058
Soundesign	0670
Sunfire	1313
Teac	0463
Technics	1308, 1309, 1518, 0039

PROGRAMMING AUDIO CONTROL

Setup Codes for Audio Amplifiers (continued):

Victor	0074
Wards	0014, 0054
Yamaha	0176, 1176, 0186
Yorx	0195
Zenith	0857

SEARCHING FOR YOUR CODE

If your TV, VCR or DVD Player, Cable Converter, or Audio Component does not respond to the Millennium 4 after trying all of the codes listed for your brand, or if your brand is not listed at all, try searching for your code.

For example, to search for a code for your TV:

1. Turn on your TV.

2. ⟨SETUP⟩ On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. 🔢-🔢-🔢 Enter **9** - **9** - **1**. The LED will blink twice.

4. (POWER) Aim the remote control at the the TV and slowly
   (TV) alternate between pressing **POWER** and **TV**. Stop when the TV turns off.

   NOTE: In the search mode, the Millennium 4 will send IR codes from its library to the selected component, starting with the most popular code first.

5. ⟨SETUP⟩ Press **SETUP** once to lock in the code.

6. To search for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., **VCR**, **CBL**, or **AUDIO**) for the (VCR or DVD, Cable, or Audio) component you are searching for.

CHECKING THE CODES

If you have set up the Millennium 4 using the *Searching For Your Code* procedure, you may need to find out which four-digit code is operating your equipment:

For example, to find out which code is operating your TV:

1. Turn on your TV.

2. ⟨SETUP⟩ On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

3. 🔢-🔢-🔢 Enter **9** - **9** - **0**. The LED will blink twice.

4. **1** To view the code for the first digit, press **1** once. Wait 3 seconds and count the number of LED blinks (e.g., 3 blinks = 3) and write down the number in the leftmost TV Code box below.

   NOTE: If a code digit is "0", the LED will not blink.

5. Repeat step 4 three more times for remaining
   2 digits. Use **2** for the second digit, **3** for the third
   3 digit, and **4** for the fourth digit. Finish writing
   4 down the code in the TV Code boxes below.

6. To check for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., **VCR**, **CBL**, or **AUDIO**) for the (VCR or DVD, Cable, or Audio) component you are checking. Write down the codes in the appropriate boxes below.

TV Code

☐ ☐ ☐ ☐

VCR (or DVD Player) Code

☐ ☐ ☐ ☐

CBL Code

☐ ☐ ☐ ☐

AUDIO _____ Code

☐ ☐ ☐ ☐

RE-ASSIGNING DEVICE KEYS

The Millennium 4 can be set up to control a second TV or VCR, or any combination of four home entertainment components. For example, to have the Millennium 4 control a TV, a Cable Converter, and *two* VCRs, you will need to re-assign the unused **AUDIO** key to operate the second VCR as follows:

1. ⬦SETUP⬦ On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. ▣-▣-▣ Enter **9** - **9** - **2**. The LED will blink twice.

3. (VCR) (AUDIO) Press **VCR** once, then press **AUDIO** once.

4. The **AUDIO** key is now ready to be programmed for your second VCR. See *Programming VCR/DVD Player Control* on page 12.

To re-assign other device keys, repeat steps 1 through 4 by substituting the key sequence from the following chart for a desired component:

To Re-Assign	Perform Key Sequence
TV as 2nd VCR key:	**SETUP** - **9** - **9** - **2** - **VCR** - **TV**
TV as 2nd Audio key:	**SETUP** - **9** - **9** - **2** - **AUDIO** - **TV**
TV as 2nd Cable key:	**SETUP** - **9** - **9** - **2** - **CBL** - **TV**
TV back to **TV**:	**SETUP** - **9** - **9** - **2** - **TV** - **TV**
VCR as 2nd TV key:	**SETUP** - **9** - **9** - **2** - **TV** - **VCR**
VCR as 2nd Audio key:	**SETUP** - **9** - **9** - **2** - **AUDIO** - **VCR**
VCR as 2nd Cable key:	**SETUP** - **9** - **9** - **2** - **CBL** - **VCR**
VCR back to **VCR**:	**SETUP** - **9** - **9** - **2** - **VCR** - **VCR**
AUDIO as 2nd TV key:	**SETUP** - **9** - **9** - **2** - **TV** - **AUDIO**
AUDIO as 2nd VCR key:	**SETUP** - **9** - **9** - **2** - **VCR** - **AUDIO**
AUDIO as 2nd Cable key:	**SETUP** - **9** - **9** - **2** - **CBL** - **AUDIO**
AUDIO back to **AUDIO**:	**SETUP** - **9** - **9** - **2** - **AUDIO** - **AUDIO**

Upon completion of a re-assignment, the LED will blink twice to confirm your selection. At that time, you will also need to program the Millennium 4 to control the new component. See previous sections on *Programming TV Control*, *Programming VCR/DVD Player Control*, *Programming Cable Converter (or DBS Receiver) Control*, or *Programming Audio Control*.

CHANGING VOLUME LOCK

The Millennium 4 is set to control volume of a component through your TV while in the TV, VCR, or Cable mode. However, in the Audio mode, you have separate control of of your audio component's volume.

If your TV is not remote controllable, or if you would like the volume to be controlled by a different component, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the *cable* in the TV mode).

To Change Volume Lock to the Cable Mode:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **3** and then press **CBL** once. The LED will blink twice.

3. Now, whenever you press **VOL+**, **VOL-**, or **MUTE** on the Millennium 4, volume will be controlled by your cable converter or DBS receiver.

To Change Volume Lock to the TV Mode:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **3** and then press **TV** once. The LED will blink twice.

3. Now, whenever you press **VOL+**, **VOL-**, or **MUTE** on the Millennium 4, volume will be controlled by your TV.

To Change Volume Lock to the VCR Mode:

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **3** and then press **VCR** once. The LED will blink twice.

3. Now, whenever you press press **VOL+**, **VOL-**, or **MUTE** on the Millennium 4, volume will be controlled by your VCR or DVD player.

CHANGING VOLUME LOCK (continued)

To Change Volume Lock to the Audio Mode:

NOTE: Performing these steps will allow you to access the volume control of your audio component in all modes.

1. On the Millennium 4, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.

2. Enter **9** - **9** - **3** and then press **AUDIO** once. The LED will blink twice.

3. Now, whenever you press press **VOL+**, **VOL-**, or **MUTE** on the Millennium 4, volume will be controlled by your audio component.

TROUBLESHOOTING

PROBLEM: LED does not blink when you press a key.

SOLUTION: Replace the batteries with two (2) new AA alkaline batteries (see page 7).

PROBLEM: LED blinks when you press a key, but home entertainment component does not respond.

SOLUTION: Make sure you are aiming the Millennium 4 at your home entertainment component and that you are within 15 feet of the component you are trying to control.

PROBLEM: The Millennium 4 does not control home entertainment components or commands are not performing properly.

SOLUTION: Try all listed codes for the component brand being set up. Make sure all components can be operated with an infrared remote control.

PROBLEM: TV/VCR combo does not respond properly.

SOLUTION: Use the VCR codes for your brand. Some combo units may require both a TV code and a VCR code for full operation (see page 16).

PROBLEM: No volume on a second TV.

SOLUTION: Follow instructions in *Changing Volume Lock* (see page 27).

PROBLEM: **CH+** , **CH -** , and **LAST** do not work for your RCA TV.

SOLUTION: Due to RCA design (1983-1987), only the original remote control will operate these functions.

PROBLEM: Changing channels does not work properly.

SOLUTION: If original remote control required pressing ENTER to change channels, press **ENTER** on the Millennium 4 after entering a channel number.

PROBLEM: Tried "Search Method" and still could not find a working code.

SOLUTION: Try the "Search Method" again after clearing out the device key as follows: Press and hold **SETUP** until the LED (red light) blinks twice, then release. Next enter **9** - **9** - **2**. Then press and release the device key to be cleared twice.

PROBLEM: Remote control does not turn on Sony or Sharp TV/VCR Combo.

SOLUTION: For power on, these products require programming TV codes on the Millennium 4. For Sony, use TV code 0000 and VCR code 0032. For Sharp, use TV code 0093 and VCR code 0048.

ADDITIONAL INFORMATION

The Millennium 4 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Millennium 4.

For help via the Internet, visit us at:

cable.rcinfo.com
(do not type in *http://* or *www* before the address)

For help via e-mail, contact us at:

CableHelp@ueic.com

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