



FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the use is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by Scientific-Atlanta could void the user's authority to operate this equipment.



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Controlling Volume

To Program for Volume Control

You can program the remote control to control the volume and mute functions through the EXPLORER 2000 DHCT, or through your TV. The default is through the TV.

1. Point the remote control away from the EXPLORER 2000 DHCT, the TV, and the VCR.
2. Press and hold the CBL key and the SELECT key at the same time, until the LED on the remote control blinks twice.
3. Using the remote control keypad, enter **993**. The LED on the remote blinks twice.
4. Press the TV key or the CBL key, depending on which device you want to control the volume. The LED on the remote control blinks twice to confirm a valid selection.
5. Point the remote toward the device on which you chose to control the volume, and adjust the volume to confirm operation.

Record of Codes

Record your setup codes in the following table.

TV			
VCR			
CBL			

Identifying Codes

To Identify Programmed Codes

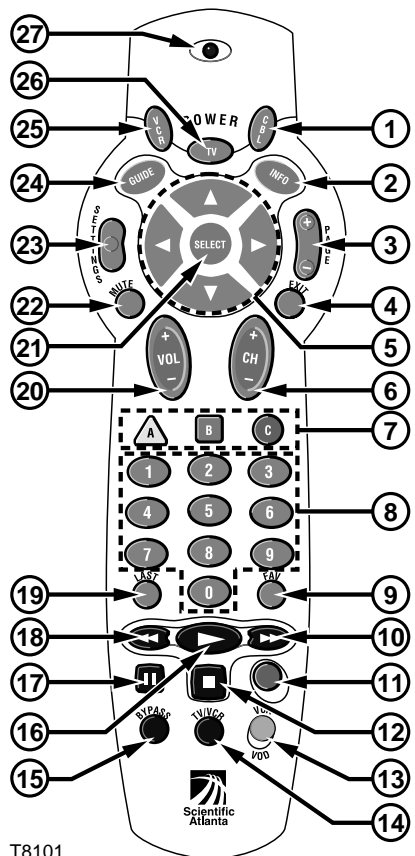
You can find out which code you used to program your TV or VCR. You can determine the code by counting the number of times the LED blinks during the following procedure.

1. Point the remote control away from the EXPLORER 2000 DHCT, the TV, and the VCR.
2. Do one of the following:
 - To identify the TV code, press and hold the TV key and the SELECT key at the same time until the LED on the remote control blinks twice, or
 - To identify the VCR code, press and hold the VCR key and the SELECT key at the same time until the LED on the remote control blinks twice.
3. Using the remote control keypad, enter **990**. The LED on the remote blinks twice.
4. Press **1** on the keypad; then, count the LED blinks. The number of blinks indicates the first number in the code. For example, 4 blinks indicates the first number in the code is 4. If the LED does not blink, the digit is 0 (zero).
5. Press **2** on the keypad; then, count the LED blinks. The number of blinks indicates the second number in the code.
6. Press **3** on the keypad; then, count the LED blinks. The number of blinks indicates the third number in the code.
7. Write down the code in the table provided for future reference.

Model ER1 Remote Control User's Guide



ER1 Remote Control Quick Reference



T8101

Power

- ① CBL DHCT on or off
- ②5 VCR on or off
- ②6 TV TV on or off
- ②7 LED

Sound

- ②2 MUTE Mutes sound
- ②0 Adjusts volume

Device Control

- ⑬ VCR/VOD Switches control between your VCR and Video On Demand (VOD) program
- ⑭ TV/VCR Controls your VCR's TV/VCR function.
- ⑮ BYPASS Controls the BYPASS option (See **Optional Bypass Feature**)

Channels

- ② INFO Displays channel information
- ⑥ CH Selects channels, up or down
- ⑧ Enter channel numbers (also used to enter your personal identification number [PIN] for parental control)

- ⑨ FAV Views favorite channels
- ⑲ LAST Returns to last channel viewed

VCR/VOD

- ⑩ Fast forwards VCR/VOD
- ⑪ Records VCR program
- ⑫ Stops VCR/VOD
- ⑱ Rewinds VCR/VOD
- ⑯ Plays VCR/VOD
- ⑰ Pauses VCR/VOD

Screens

- ③ Pages Up/Pages Down
- ④ EXIT Hides interactive screen
- ⑦ A B C Makes on-screen decisions
- ②4 GUIDE Displays interactive program guide
- ②3 Displays DHCT settings
- ⑤ Moves through interactive screen choices
- ②1 SELECT Chooses interactive screen item

Notes:

- Program the remote control before you use the DHCT. See **Programming the Remote Control** for programming procedures.
- Make sure you use only *alkaline* batteries in the remote control. See **Inserting the Batteries** for more information.

Inserting the Batteries

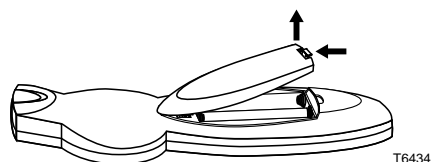
Procedure

Your remote control requires two AA alkaline batteries.

CAUTION:

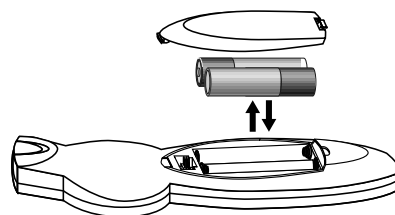
Make sure you correctly align the positive (+) and negative (-) terminals on the batteries to the corresponding terminals in the remote control.

1. Press forward then lift up on the lever on the back cover of the remote control. The battery cover releases, and you can pull the cover up to remove it.



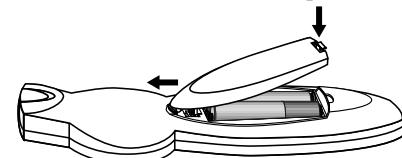
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2. Remove and safely dispose of the old batteries.



T6435

3. Insert and firmly seat two new AA batteries (alkaline required) into the battery compartment.
4. Slide the front of the battery cover back onto the remote control and snap the back of the cover into place.



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Programming the Remote Control

Introduction

In addition to operating your digital home communications terminal (DHCT), you can program the ER1 Remote Control to operate your TV and VCR. To program the remote control, use the following procedure.

Using Device Keys

Remember to press the following appropriate device key to switch the remote control operation for the specific device:



Programming for TV Operation

The remote control for the DHCT controls the power, volume up and down, and mute functions.

Make sure the power to your TV is turned on before you program the remote control.

1. Locate your TV brand and TV setup code in the table below. If your TV brand is not listed, see **Searching the Code Library**.
2. Point the remote control away from the DHCT, TV, and VCR.
3. On your remote control, press and hold the TV key and the SELECT key at the same time, until the LED on the remote blinks twice.
4. Using the remote control keypad, enter your TV's 3-digit setup code. The LED on the remote control should blink twice. If not, try another setup code, if available.

5. Confirm by pointing the remote control toward the TV and test the **POWER**, **VOLUME**, and **MUTE** functions.

Note: If you programmed the remote control to adjust the volume on your DHCT rather than the volume on the TV, test only the **POWER** function. If these functions do not operate from the remote control, enter the next TV setup code from the list and repeat this procedure from step 1.

Programming for VCR Operation

The remote control for the DHCT controls the VCR power, tape play, record, fast forward, rewind, stop, and TV/VCR functions. You can program the DHCT remote control to play video tapes. If you want the DHCT to manage the recording of events with your VCR, you must use the VCR Commander™ module. (See the *VCR Commander™ User's Guide* for more information or ask your cable service provider.) Without this module, you must manually set up your VCR to record programs.

Make sure the power to your VCR is turned on before you program the remote control.

1. Move the VCR/VOD slide switch on the remote control to the VCR position.
2. Locate your VCR brand and VCR setup code in the table below. If your VCR brand is not listed, see **Searching the Code Library**.
3. Point the remote control away from the DHCT, the TV, and the VCR.

4. On your remote control, press and hold the VCR key and the SELECT key at the same time, until the LED on the remote blinks twice.
5. Using the remote control keypad, enter your VCR's 3-digit setup code. The LED on the remote control should blink twice. If not, try another setup code, if available.
6. Confirm by pointing the remote control toward the VCR and test the **POWER**, **PLAY**, and **STOP** functions. If these functions do not operate from the remote control, enter the next VCR setup code in the list and repeat this procedure from step 1.

Searching the Code Library

If none of the listed TV or VCR codes work, you can enter a code that searches the library of codes. The remote control automatically selects the proper code for your TV or VCR. Make sure the power to your TV or VCR is turned on before you program the remote control.

1. Point the remote control away from your TV or VCR, depending on which device you are programming.

2. Do one of the following:

- To search for TV codes, press and hold the TV key and the SELECT key at the same time, until the LED on the remote control blinks twice.
- To search for VCR codes, press and hold the VCR key and the SELECT key at the same time, until the LED on the remote control blinks twice.

Note: The LED on the remote control also blinks twice when it reaches the end of its search library.

3. Using the remote control keypad, enter **991**. The LED on the remote blinks twice.
4. Point the remote control toward your TV or VCR, and press the TV key or the VCR key depending on which device you are programming.
5. Did the TV or VCR turn off?
 - If **yes**, go step 6.
 - If **no**, repeat step 4.
6. Press the SELECT key to confirm a valid code. The remote control LED blinks twice.
7. Point the remote toward the device you programmed and press Power to confirm that the device turns on and off.

TV Setup Codes

Brand—Codes

Admiral—107
 Adventura—060
 Aiko—106
 Akai—044
 Alaron—193
 Ambassador—191
 Anam—194
 Anam National—069, 194
 AOC—033, 044, 199
 Audiovox—106, 194, 465
 Baysonic—194
 Belcor—033
 Bell & Howell—030, 168
 Bradford—194
 Brocksonic—250, 477
 Candle—066, 044, 070
 Carnivale—044
 Carver—068
 Celebrity—014
 Cinal—106, 465
 Citizen—060, 044, 070, 074, 106
 Concerto—070
 Contec—194
 Craig—194
 Crosley—068
 Crown—194
 Curtis Mathes—180, 030, 044, 061, 065, 068, 070, 074, 107, 159, 168, 465
 CXC—194
 Daewoo—106, 465
 Denon—159
 Dumont—031
 Electroband—014
 Emerson—250, 168, 191, 192, 193, 194, 296, 477
 Envision—044
 Fisher—168
 Fujitsu—193
 Funai—185, 193, 194
 Futuretech—194
 GE—035, 061, 065, 107, 149, 192, 296, 465
 Gilbrater—031, 044
 GoldStar—044, 070, 192
 Gradiente—067, 070
 Grunpy—193, 194
 Hallmark—192

Brand—Codes

Harley Davidson—193
 Harvard—194
 Hitachi—070, 159
 Infinity—068
 Inteq—031
 Janeil—060
 JBL—068
 JCB—014
 JVC—067
 KEC—194
 Kenwood—044
 Kloss—060
 KTV—044, 194
 LG—070
 Logik—030
 Luxman—070
 LXI—061, 068, 168, 170, 192
 Magnavox—044, 068, 193
 Majessti—030
 Marantz—044, 068
 Matsushita—264
 Megatron—159, 192
 Memorex—030, 070, 164, 168, 192, 264
 MGA—044, 164, 192
 Midland—031, 061, 065, 149
 Minutz—035
 Mitsubishi—107, 164, 192
 Motorola—107
 MTC—044, 070, 074
 Multitech—194
 NAD—180, 170, 192
 NEC—044, 070
 Nikko—044, 106, 192
 NTC—106
 Onwa—194
 Optimus—180, 168, 264
 Optonica—179, 107
 Orion—250, 193, 477
 Panasonic—065, 264
 Penney—035, 044, 061, 065, 070, 074, 149, 170, 192
 Philco—044, 068, 159, 477
 Philips—068
 Pilot—044
 Pioneer—180
 Portland—106
 Prism—065
 Proscan—061

Brand—Codes

Proton—192
 Pulsar—031
 Quasar—179, 065, 264
 Radio Shack—179, 044, 061, 070, 168, 192, 194
 RCA—061, 104, 149, 065, 107
 Realistic—179, 044, 070, 168, 192, 194
 Runco—053
 Sampo—044
 Samsung—044, 070, 074, 192
 Sansei—465
 Sansui—477
 Sanyo—168
 Scotch—192
 Scott—250, 192, 193, 194
 Sears—061, 068, 070, 168, 170, 185, 192, 193
 Semivox—194
 Semp—170
 Sharp—179, 107
 Signatur—030
 Sony—014
 Soundesign—192, 193, 194
 Squareview—185
 SSS—194
 Starlite—194
 Supre-Macy—060
 Supreme—014
 Sylvania—044, 068
 Symphonic—185
 Tandy—107
 Tatung—069
 Technics—065, 264
 Technol Ace—193
 Techwood—065, 070
 Teknika 030, 068, 070, 074, 106, 164, 193, 194
 Telefunken—070
 TMK—070, 191, 192
 Toshiba—074, 168, 170
 Vector Research—044
 Victor—067
 Vidikron—068
 Vidtech—192
 Viking—060
 Wards—030, 179, 035, 044, 068, 070, 192, 193
 Yamaha—044
 Zenith—030, 031, 106

VCR Setup Codes

Brand—Codes

Admiral—062
 Adventura—014
 Aiko—292
 Aiwa—014, 051
 Akai—055, 075, 120
 American High—049
 Asha—254
 Audiovox—051
 Beaumark—254
 Bell & Howell—118
 Brocksonic—016, 135, 198, 225
 CCE—086, 292
 Calix—051
 Canon—049
 Carver—095
 Cinal—292
 Citizen—051, 292
 Colt—086
 Craig—051, 061, 086, 254
 Curtis Mathes—049, 055, 074, 176
 Cybernex—254
 Daewoo—059, 292
 Denon—056
 Dynatech—014
 Electrohome—051
 Electrophonic—051
 Emerex—046
 Emerson—014, 016, 051, 057, 075, 135, 198, 222, 225, 226, 292
 Fisher—061, 068, 118
 Fuji—047, 049
 Funai—014
 GE—062, 049, 074, 254
 Garrard—014
 GoldStar—051, 052
 Gradiente—014
 HI-Q—061
 Harley Davidson—014
 Harman/Kardon—052
 Harwood—086
 Headquarter—060
 Hitachi—014, 055, 056, 119
 JVC—081, 055
 Jensen—055

Brand—Codes

KEC—051, 292
 Kenwood—081, 052, 055
 KLH—086
 Kodak—049, 051
 LXI—051
 Lloyd's—014, 222
 Logik—086
 Magnasonic—292
 Magnavox—014, 049, 053, 095
 Magnin—254
 Marantz—049, 095
 Marta—051
 Matsushita—049, 176
 MEI—049
 Memorex—060, 062, 014, 049, 051, 053, 061, 118, 176, 254
 MGA—057, 075, 254
 MGN Technology—254
 Minotla—056, 119
 Mitsubishi—081, 062, 057, 075
 Motorola—062, 049
 MTC—014, 254
 Multitech—014, 086
 NEC—81, 052, 055, 118
 Nikko—051
 Noblex—254
 Olympus—049
 Optimus—062, 051, 118, 176
 Orion—016, 198
 Panasonic—049, 176
 Penney—049, 051, 052, 056, 068, 254
 Pentax—056, 119
 Philco—049
 Philips—049, 095
 Pilot—051
 Pioneer—081, 176
 Profitronic—254
 Proscan—086
 Protec—086
 Pulsar—053
 Quarter—060

Brand—Codes

Quartz—060
 Quasar—049, 176
 RCA—062, 049, 056, 074, 119, 120, 254
 Radio Shack—014, 051
 Radix—051
 Randex—051
 Realistic—060, 062, 014, 049, 051, 061, 118
 Runco—053
 Samsung—059, 254
 Sanky—062, 053
 Sansui—081, 014, 055
 Sanyo—060, 061, 118, 254
 Scott—057, 059, 135, 198, 255, 226
 Sears—060, 014, 049, 051, 056, 061, 068, 118, 119
 Semp—059
 Sharp—062
 Shintom—086
 Shogun—254
 Singer—086
 Sony—047, 014, 046, 049
 STS—056
 Sylvania—014, 049, 057, 095
 Symphonic—014
 TMK—222, 254
 Tatung—055
 Teac—014, 055
 Technics—049, 176
 Teknika—014, 049, 051,
 Thomas—014
 Toshiba—057, 059, 226
 Totevision—051, 254
 Unitech—254
 Vector—059
 Vector Research—052
 Video Concepts—059, 075
 Videosonic—254
 Wards—062, 014, 049, 056, 061, 074, 086, 095, 226, 254
 White Westinghouse—292
 XR-1000—014, 049, 086
 Yamaha—052