Programming the Remote Control

Introduction

In addition to operating your digital home communications terminal (DHCT), you can program the E2050 (ER1) Remote Control (remote) to operate your TV and VCR. To program the remote, use the following procedures.

Using Mode Keys

Press the appropriate mode key to switch the remote control operation to the configured device:

TV [TV]   VCR [VCR]   CBL [CBL]

Programming for TV Operation

The remote for the DHCT can control the power, volume up and down, and mute functions on your TV. Use the following steps to program the remote for your TV.

1. If your TV is plugged into your DHCT, then turn on the power to your DHCT.

2. Turn on the power to your TV.

3. Locate your TV brand and setup code in the **TV Setup Codes** list in this guide. If your TV brand is not listed, see **Searching the Code Library**.

4. Point the remote *away* from your DHCT, TV, and VCR.

5. On your remote, press and hold **TV** and **SELECT** at the same time until the light on the remote blinks twice.

6. Using the keypad on your remote , enter the 3-digit setup code for your TV brand. The light on the remote blinks twice.

7. Confirm the setup code works by pointing the remote *toward* your TV and test the **POWER**, **VOLUME**, and **MUTE** functions.

8. Did the TV operate correctly?

   • If **yes**, write down the TV code that worked in the **Record of Codes** section in this guide. You may need it again if the device code is accidently erased.

   • If **no**, repeat this procedure from step 2 using a different setup code.

   Note: If you programmed the remote to adjust the volume on your DHCT rather than the volume on the TV, test only the **POWER** function.

Programming for VCR Operation

Your remote can control the VCR power, tape play, record, fast forward, rewind, stop, and TV/VCR functions for many VCR models. Use the following steps to manually set up your VCR to record programs.

1. Turn on the power to your VCR and insert a videotape.

2. Move the VCR/VOD slide switch on the remote to the VCR position.

3. Locate your VCR brand and setup code in the **VCR Setup Codes** list in this guide. If your VCR brand is not listed, see **Searching the Code Library**.

4. Point the remote *away* from your DHCT, TV, and VCR.

5. On your remote, press and hold **VCR** and **SELECT** at the same time, until the light on the remote blinks twice.

6. Using the keypad on the remote, enter the 3-digit setup code for your VCR brand. The light on the remote blinks twice.

7. Confirm the setup code works by pointing the remote *toward* your VCR and test the **POWER**, **PLAY**, and **STOP** functions.

8. Did the VCR operate correctly?

   • If **yes**, write down the VCR code that worked in the **Record of Codes** section in this guide. You may need it again if the device code is accidently erased.

   • If **no**, repeat this procedure from step 2 using a different setup code.

Searching the Code Library

If none of the codes listed for your device work, you can search the code library for a valid code. The remote automatically selects the proper code for your TV or VCR.

1. Turn on the device in question before you search for a code.

2. Point the remote *away* from the device you are programming.

3. To search for the code, press and hold SELECT and the appropriate mode key (CBL, TV, VCR) until the light on the remote blinks twice. For example, to search for a TV code, hold down **SELECT** and **TV** until the light blinks twice.

4. Press **9 9 1**. The light blinks twice.

5. Point the remote *toward* the device, and press the appropriate mode key.

6. Did the device turn off?

   • If **yes**, go step 7.

   • If **no**, repeat step 5.

   Note: The light on the remote blinks twice when you reach the end of the code library. This procedure searches the following number of codes in each library:

   • VCR: 32 codes
   • TV: 32 codes
   • CBL: 20 codes

7. Press **SELECT** to confirm a valid code. The light on the remote blinks twice.

8. Point the remote *toward* the device you programmed and press **POWER** to confirm that the device powers on.

Important: If you are searching for a CBL code, and the remote does not find a suitable CBL code, go to the **Programming for Cable Operation** procedure and use code **260**.

Unlocking the CBL Mode Key

Your cable set-top device code is "locked" to keep you from changing the cable code unintentionally. If you need to program the remote to operate a different cable set-top device, use the following steps to unlock the CBL key.

1. Press and hold **SELECT** and **CBL** until the light blinks twice.

2. Press **9 9 6**.

3. Press **CH**- (channel down key) to unlock the set-top device code.

   Result: You can now assign your CBL key to a different cable device; see the **Programming for Cable Operation** procedure.

Programming for Cable Operation

Use the following steps if you need to program the remote to operate a different cable device.

1. Locate your cable brand in the **Cable Setup Codes** section in this guide.

2. Turn on your cable device.

3. Point the remote *away* from your DHCT, TV, and VCR.

4. Press and hold **SELECT** and **CBL** until the light blinks twice.

5. Enter the setup code for your cable device. The light on the remote should blink twice. If not, repeat this procedure using a different setup code; or go to **Searching the Code Library**.

6. Point the remote *toward* the cable device and test the code by pressing **CBL**.

Identifying Codes

Identifying 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 light blinks during the following procedure.

1. Point the remote *away* from your DHCT, TV, and VCR.

2. Do one of the following:

   • To identify the TV code, press and hold **TV** and **SELECT** at the same time until the light on the remote blinks twice.

   • To identify the VCR code, press and hold **VCR** and **SELECT** at the same time until the light on the remote blinks twice.

3. Press **9 9 0**. The light on the remote blinks twice.

4. Press **1** and count the light 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 light does not blink, the digit is 0 (zero).

5. Press **2** and count the light blinks. The number of blinks indicates the second number in the code.

6. Press **3** and count the light blinks. The number of blinks indicates the third number in the code.

7. Write down the code in the **Record of Codes** section in this guide.

Controlling Volume

Programming for Volume Control

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

1. Point the remote *away* from your DHCT, TV, and VCR.

2. Press and hold **CBL** and **SELECT** at the same time, until the light on the remote blinks twice.

3. Press **9 9 3**. The light 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 light on the remote 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	

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 gener-ates, uses, and can radiate radio frequency energy and, if not installed and used in accor-dance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equip-ment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user 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.

Scientific Atlanta
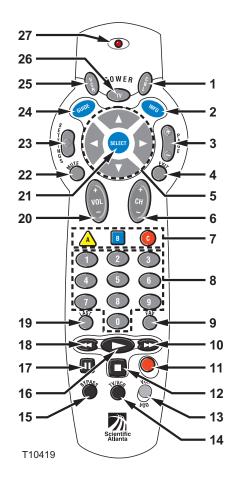
Scientific Atlanta

Model ER1 Remote Control

User's Guide

ER1 Remote Control Quick Reference

T10419

Notes:

- Program the remote control before you use your DHCT. See **Programming the Remote Control** for programming procedures.

- The remote requires two AA batteries (alkaline recommended). A diagram in the battery compartment of the remote indicates proper placement of the batteries. When batteries are properly installed, the light on the remote blinks each time a key is pressed.

- The ER1 Remote Control is not a toy. It should be kept out of the reach of children under the age of 6 years.

Device Control

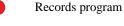|		
1		DHCT on or off
25		VCR on or off
26		TV on or off
27		Light
13		Switches control of fast forward and rewind function keys between your VCR and video-on-demand (VOD) program
14		Controls your TV/VCR function on your VCR
15		Controls the optional BYPASS feature. (You can purchase an optional Bypass module. Refer to the **RF Bypass Module User's Guide**.)

Sound Control

20		Adjusts volume
22		Mutes sound

VCR/VOD Control

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

Viewing and Browsing Control

3		Pages Up/Pages Down
4		Exits settings, menus, and guides
7		Selects options in menus and program guides
24		Displays program guide
23		Navigates through program guide or settings
5		Moves through menus or program guides
21		Selects and deselects screen item
2		Displays channel and program information
6		Selects channels, up or down
8		Enters channel numbers or personal identification number (PIN) for parental control
9		Views favorite channels
19		Returns to last channel viewed

Cable Setup Codes

You must enter all three digits to program the cable setup code.

Brand	Codes
ABC	017, 025, 028, 061
Everquest	029
Gemini	029
General Instruments	025, 290, 490
Goldstar	158
Hitachi	025
Jerrold	017, 025, 026, 028, 029, 038, 061, 112, 290, 490
Magnavox	046
Memorex	014
Motorola	025, 290, 490
Panasonic	014
Paragon	014
Pioneer	037, 158, 274, 547
Pulsar	014
Radio Shack	029
Rembrandt	025
Runco	014
Samsung	158
Scientific-Atlanta	491
Signal	029
Signature	025
Starcom	017, 029, 061, 112
Stargate	029
Starquest	029
Tocom	026
Toshiba	014
Tusa	029
United Cable	017
Zenith	014, 068, 539

TV Setup Codes

You must enter all three digits to program the TV setup code.

Brand	Codes	Brand	Codes	Brand	Codes
Admiral	107	Hallmark	192	Proscan	061
Adventura	060	Harley Davidson	193	Proton	192
Aiko	106	Harvard	194	Pulsar	031
Akai	044	Hitachi	070, 159	Quasar	065, 179, 264
Alaron	193	Infinity	068	Radio Shack	044, 061, 070, 168, 179, 192, 194
Ambassador	191	Inteq	031	RCA	061, 065, 104, 107, 149
Anam	194	Janeil	060	Realistic	044, 070, 168, 179, 192, 194
Anam National	069, 194	JBL	068	Runco	031, 044, 053
AOC	033, 044, 199	JCB	014	Sampo	044
Audiovox	106, 194, 465	JVC	067	Samsung	044, 070, 074, 192
Baysonic	194	KEC	194	Sansei	465
Belcor	033	Kenwood	044	Sansui	477
Bell & Howell	030, 168	Kloss	060	Sanyo	168
Bradford	194	KTV	044, 194	Scotch	192
Brocksonic	250, 477	LG	070	Scott	192, 193, 194, 250
Candle	044, 060, 066, 070	Logik	030	Sears	061, 068, 070, 168, 170, 185, 192, 193
Carnivale	044	Luxman	070	Semivox	194
Carver	068	LXI	061, 068, 168, 170, 192	Semp	170
Celebrity	014	Magnavox	044, 068, 193	Sharp	107, 179
Cineral	106, 465	Majestic	030	Signature	030
Citizen	044, 060, 070, 074, 106	Marantz	044, 068	Sony	014
Concerto	070	Matsushita	264	Soundesign	192, 193, 194
Contec	194	Megatron	159, 192	Squareview	185
Craig	194	Memorex	030, 070, 164, 168, 192, 264	SSS	194
Crosley	068	MGA	044, 164, 192	Starlite	194
Crown	194	Midland	031, 061, 065, 149	Supre-Macy	060
Curtis Mathes	030, 044, 061, 065, 068, 070, 074, 107, 159, 168, 180, 465	Minutz	035	Supreme	014
		Mitsubishi	107, 164, 192	Sylvania	044, 068
CXC	194	Motorola	107	Symphonic	185
Daewoo	106, 465	MTC	044, 070, 074	Tandy	107
Denon	159	Multitech	194	Tatung	069
Dumont	031	NAD	170, 180, 192	Technics	065, 264
Electroband	014	NEC	044, 070	Technol Ace	193
Emerson	168, 191, 192, 193, 194, 250, 296, 477	Nikko	044, 106, 192	Techwood	065, 070
		NTC	106	Teknika	030, 068, 070, 074, 106, 164, 193, 194
Envision	044	Onwa	194	Telefunken	070
Fisher	168	Optimus	168, 180, 264	TMK	070, 191, 192
Fujitsu	193	Optonica	107, 179	Toshiba	074, 168, 170
Funai	185, 193, 194	Orion	193, 250, 477	Vector Research	044
Futuretech	194	Panasonic	065, 264	Victor	067
GE	035, 061, 065, 107, 149, 192, 296, 465	Penney	035, 044, 061, 065, 070, 074, 149, 170, 192	Vidikron	068
				Vidtech	192
Gilbralter	031, 044	Philco	044, 068, 159, 477	Viking	060
GoldStar	044, 070, 192	Philips	068	Wards	030, 035, 044, 068, 070, 179, 192, 193
Gradiente	067, 070	Pilot	044		
Grunpy	193, 194	Pioneer	180	Yamaha	044
		Portland	106	Zenith	030, 031, 106
		Prism	065		

VCR Setup Codes

You must enter all three digits to program the VCR setup code.

Brand	Codes	Brand	Codes	Brand	Codes
Admiral	062	Jensen	055	Realistic	014, 049, 051, 060, 061, 062, 118
Adventura	014	JVC	055, 081	Runco	053
Aiko	292	KEC	051, 292	Samsung	059, 254
Aiwa	014, 051	Kenwood	052, 055, 081	Sanky	053, 062
Akai	055, 075, 120	KLH	086	Sansui	014, 055, 081
American High	049	Kodak	049, 051	Sanyo	060, 061, 118, 254
Asha	254	LXI	051	Scott	057, 059, 135, 198, 225, 226, 255
Audiovox	051	Lloyd's	014, 222	Sears	014, 049, 051, 056, 060, 061, 068, 118, 119
Beaumark	254	Logik	086		
Bell & Howell	118	Magnasonic	292	Semp	059
Brocksonic	016, 135, 198, 225	Magnavox	014, 049, 053, 095	Sharp	062
CCE	086, 292	Magnin	254	Shintom	086
Calix	051	Marantz	049, 095	Shogun	254
Canon	049	Marta	051	Singer	086
Carver	095	Matsushita	049, 176	Sony	014, 046, 047,048, 049
Cineral	292	MEI	049		
Citizen	051, 292	Memorex	014, 049, 051, 053, 060, 061, 062, 118, 176, 254	STS	056
Colt	086			Sylvania	014, 049, 057, 095
Craig	051, 061, 086, 254	MGA	057, 075, 254	Symphonic	014
Curtis Mathes	049, 055, 074, 176	MGN Technology	254	TMK	222, 254
Cybernex	254	Minotla	056, 119	Tatung	055
Daewoo	059, 292	Mitsubishi	057, 062, 075, 081	Teac	014, 055
Denon	056	Motorola	049, 062	Technics	049, 176
Dynatech	014	MTC	014, 254	Teknika	014, 049, 051
Electrohome	051	Multitech	014, 086	Thomas	014
Electrophonic	051	NEC	052, 055, 081, 118	Toshiba	057, 059, 226
Emerex	046	Nikko	051	Totevision	051, 254
Emerson	014, 016, 051, 057, 075, 135, 198, 222, 225, 226, 292	Noblex	254	Unitech	254
		Olympus	049	Vector	059
		Optimus	051, 062, 118, 176	Vector Research	052
Fisher	061, 068, 118	Orion	016, 198	Video Concepts	059, 075
Fuji	047, 049	Panasonic	049, 176	Videosonic	254
Funai	014	Pentax	056, 119	Wards	014, 049, 056, 061, 062, 074, 086, 095, 226, 254
GE	049, 062, 074, 254	Philco	049		
Garrard	014	Philips	049, 095	White Westinghouse	292
GoldStar	051, 052	Pilot	051		
Gradiente	014	Pioneer	081, 176	XR-1000	014, 049, 086
HI-Q	061	Profitronic	254	Yamaha	052
Harley Davidson	014	Proscan	074, 086	Zenith	014, 047, 053
Harman/Kardon	052	Protec	086		
Harwood	086	Pulsar	053		
Headquarter	060	Quarter	060		
Hitachi	014, 055, 056, 119	Quartz	060		
JC Penney	049, 051, 052, 056, 068, 254	Quasar	049, 176		
		RCA	049, 056, 062, 074, 119, 120, 254		
		Radio Shack	014, 051		
		Radix	051		
		Randex	051		