User's Guide

AT2400 AllTouch® Remote Control

Bringing the **Interactive Experience Home**™

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 communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment 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

CBL Setup Codes

About Cable Codes

Your cable service provider may have "locked" a valid cable code into your remote to keep you from unintentionally changing the cable code.

If you need to program the remote to operate a different device, use the following steps to unlock the remote.

1. Press and hold the **SELECT** key and the **CBL** key until the LED blinks twice.
2. Press **996**.
3. Press **CH-** to unlock the remote.

Result: You can now set up your CBL key with a different cable code.

Cable Codes

You must enter all 4 digits to program the CBL mode key.

Brand—Code
General Instrument—0290, 0490, 0824
Jerrold—0290, 0490, 0824
Motorola—1120
Panasonic—0121
Pioneer—0547, 0891, 1891
Scientific Atlanta—0491, 0891, 1891

The Explorer eClub

The Explorer eClub is an online club that provides news about the Explorer DHCT and offers you a chance to win prizes and other premium items.

To join the Explorer eClub, you must enter the serial number of your DHCT. The number is located on a label on the bottom of your DHCT, and begins with S/N. Also, your cable service provider may need this number if your DHCT requires service. Write the serial number here:

S/N_____.

You can access the Explorer eClub on the Internet at www.scientificatlanta.com/explorerclub

AUX Setup Codes

Receiver Codes

Brand—Code	
ADC–0545	Panasonic–0053, 1532
Aiwa–1419, 0172, 1103	Philips–1103, 1203, 1283
Capetronic–0545	Pioneer–0545, 1037
Carver–1103, 1203	Proscan–1268
Denon–1174, 1118	Quasar–0053
JVC–0088	RCA–1268, 0545, 1037
Kenwood–0041, 1041, 1327, 1583, 1584	Sansui–1103
MCS–0053	Sony–0172, 1172, 1072, 1272
Magnavox–1103, 0545, 1203	Sunfire–1327
Marantz–1203, 1103, 0053	Technics–0053, 1322, 1532, 1323
Onkyo–0149	Thorens–1203
Optimus–1037, 0545	Victor–0088
	Wards–0172
	Yamaha–0190, 1190

Amplifier Codes

Brand—Code	
GE–0092	Philips–0906
Harman/Kardon– 0906	Polk Audio–0906
	Realistic–0409
JVC–0345	Sansui–0335
Luxman–0179	Sony–0703
Marantz–0335, 0906	Soundesign–0092
Nakamichi–0335	Victor–0345
Optimus–0409	Wards–0092
	Yamaha–0368

Home Automation Codes

Brand—Code
GE—0254
One For All—0181
Radio Shack—0254
Security System—0181
Universal X10—0181
X10—0181

Additional Audio Codes

These codes allow you to program your remote to control cable radio set-top devices.

Brand—Code
Jerrold–0473, 0534
Scientific Atlanta–0474
Starcom–0473

7

About Your Remote

Your new AT2400 AllTouch® Remote Control ("remote") functions as four remotes in one to operate your TV, VCR, cable set-top device, or CD player. If you prefer, you can program the AT2400 AllTouch Remote Control to operate additional electronic devices, such as a stereo receiver, a DVD player, or a home automation device.

For information about the keys on the remote, go to the **Quick Reference** section of this guide.

Note: If you have questions or concerns about the operation of this remote, contact your cable service provider.

Batteries

The remote requires two alkaline AA batteries. When batteries are properly installed, the LED on the remote blinks each time a button is pressed.

Important Reminder: A diagram in the battery compartment of the remote indicates proper placement of the batteries.

Mode Keys and Setup Codes

Q: What are mode keys?
A: The mode keys switch the remote to operate a particular device. These four keys are located at the top of the remote.

Q: What are setup codes?
A: Setup codes are numeric codes that identify your brand of equipment so that the remote can operate that device.

Important Reminder: The AT2400 AllTouch Remote Control is not a toy. It should be kept out of the reach of children under the age of 6 years.

1

Setting Up Your Remote

To Set Up a Mode Key

The mode keys are programmed with most of the popular brands of electronic devices, so before you perform this procedure, test each mode key.

To test the mode key, turn on your device, press the mode key for that device, and then press POWER on the remote to verify that the power to the device turns off.

If the device does not turn off, then the mode key may not be set up. Follow these steps to set up a mode key:

1. Find the code for your brand of device in one of the setup code lists in this guide.
2. Make sure that the device is turned on.
3. Press and hold the **SELECT** key and the appropriate mode key for that device until the LED (the light at the top of the remote) blinks twice. For example, to set up the VCR key, press and hold **SELECT** and **VCR**.
4. Enter the setup code for the device. **Note:** The setup codes for each mode key appear on the front and the back of this guide.
5. Point the remote toward the device.
6. Press **POWER**, **PLAY**, or **CH+** to test the device.
7. Did the device operate correctly?
   • If **yes**, go to step 8.
   • If **no**, repeat steps 3 through 6 using a different setup code.
   Note: If all of the codes listed for your brand of device fail to operate your device properly, go to the **To Search for Codes** section of this guide for instructions.
8. Repeat steps 1 through 6 for each mode key that you want to set up.
9. Write down your codes for future reference:

AUX:_____ VCR:_____

TV:_____ CBL:_____

To Search for Codes

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

1. Turn on the device.
2. Hold down the **SELECT** key and the appropriate mode key (AUX, VCR, TV, or CBL) until the LED blinks twice. For example, to search for a TV code, hold down SELECT and TV.
3. Using the keypad on the remote, press **991**. The LED blinks once.
4. Point the remote toward the device, and press the **POWER** key.
5. Did the device turn off?
   • If **no**, press the up arrow key to go to the next code, and return to step 4.
   • If **yes**, press **SELECT** to confirm the code.
Note: The LED on the remote blinks three times when you reach the end of the code library. Each of the code libraries contains fewer than 80 codes.

To Identify Programmed Codes

You can find out which code you used to program your device by using the following procedure.

1. Hold the **SELECT** key and the appropriate mode key (AUX, VCR, TV, or CBL) until the LED blinks twice.
2. Using the keypad on the remote, press **990**. The LED blinks twice.
3. Press **1**; then, count the LED blinks. The number of LED blinks indicates the first digit in the code. For example, 4 blinks indicates the first digit in the code is 4. If the LED does not blink, the digit is 0.
4. Press **2**; then, count the LED blinks. The number of blinks indicates the second digit in the code.
5. Press **3**; then, count the LED blinks. The number of blinks indicates the third digit in the code.
6. Press **4**; then, count the LED blinks. The number of blinks indicates the fourth digit in the code.
7. Write down your codes in the **To Set Up a Mode Key** section.
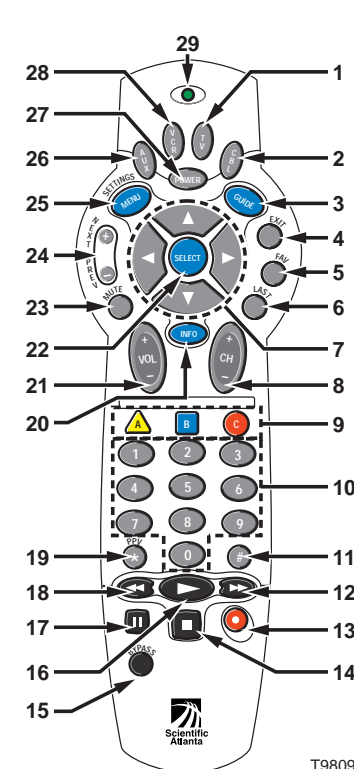
To Program for Volume Control

You can program your Volume and Mute keys to function in one of two ways:

• To control the volume on a single device all the time
• To control the volume on each device, depending on the mode key that you press

Note: The default setting is to control volume through your TV all the time.

Follow these steps to change the way your Volume and Mute keys function.

1. Turn on the appropriate device.
2. If you have an Explorer® Digital Home Communication Terminal (DHCT), use the SETTINGS button to go to the General Settings menu on-screen, and make sure that the Audio: Volume Control setting is set to "Variable."
3. Hold the **SELECT** key and the appropriate mode key (AUX, VCR, TV, or CBL) until the LED blinks twice.
4. Using the keypad on the remote, press **993**. The LED blinks twice.
5. Do you want the Volume and Mute keys to operate a single device all the time?
   • If **yes**, press the mode key for the device that you want to control the volume.
   • If **no**, press the **VOL -** key to control the volume through various devices based on the mode key.
6. Point the remote *toward* the device and confirm that the Volume and Mute keys function as expected.

2

Quick Reference

Mode

1		TV Mode Key
2		Cable Mode Key
26		AUX Mode Key
28		VCR Mode Key

Sound

| 21 | | Adjusts volume |
| 23 | | Mutes sound |

Device Control

27	POWER	POWERS on or off
29		LED
15	BYPASS	Functions as follows: • In VCR mode, switches TV/VCR input • In TV mode, switches TV/Video input • In CBL mode, controls Bypass option

Viewing and Browsing Control

11	#	Functions vary by cable service provider
9	A B C	Selects options in menus and IPG
3	GUIDE	Displays interactive guide
25	SETTINGS MENU	Displays cable settings or menu
7		Moves through selections
22	SELECT	Selects and deselects screen item
20	INFO	Displays channel and program information
8	CH	Selects channels, up or down
5	FAV	Views favorite channels
6	LAST	Returns to last channel viewed
10		Enters channel numbers (also enters your parental control PIN)
19	PPV	Features vary by cable service provider; some provide access to pay-per-view features. **Note**: Explorer DHCTs provide access through on-screen options.
24		Navigates through IPG or settings
4	EXIT	Exits settings, menus, and guides

VCR/VOD Control

Note: In VCR mode, these keys control your VCR.

12		Fast forwards VCR/VOD
13		Records program
14		Stops VCR/VOD
16		Plays VCR/VOD
17		Pauses VCR/VOD
18		Rewinds VCR/VOD

3

TV Setup Codes

Enter all 4 digits to program the TV mode key.

Brand—Code

AOC–0033, 0044
Admiral–0107, 0477
Aiko–0106
Aiwa–0715
Akai–0044
Alaron–0193
America Action–0194
Ampro–0765
Anam–0194
Audiovox–0106, 0194, 0465, 0637
Baysonic–0194
Belcor–0033
Bell & Howell–0030, 0168
Bradford–0194
Brockwood–0033
Broksonic–0250, 0477
CXC–0194
Candle–0044, 0070
Carnivale–0044
Carver–0068
Celebrity–0014
Cineral–0465, 0106
Citizen–0070, 0044, 0074, 0106
Concerto–0070
Contec–0194
Craig–0194
Crosley–0068
Crown–0194
Curtis Mathes–0074, 0044, 0030, 0061, 0065, 0068, 0070, 0107, 0159, 0168, 0180, 0465, 0761, 1161, 1361
Daewoo–0106, 0637, 0033, 0638, 0465
Daytron–0033
Denon–0159
Dumont–0031, 0033
Dwin–0788
Electroband–0014
Emerson–0250, 0194, 0192, 0193, 0477, 0638, 0637, 0033, 0168
Envision–0044
Fisher–0168
Fujitsu–0193

Funai–0194, 0185, 0193
Futuretech–0194
GE–0035, 0061, 1361, 0065, 0192, 0465, 1161, 0107, 0761
Gibralter–0031, 0033, 0044
GoldStar–0192, 0033, 0044, 0070
Gradiente–0070, 0067
Grunpy–0193, 0194
Hallmark–0192
Harley Davidson–0193
Harman/Kardon–0068
Harvard–0194
Hitachi–0159, 0070, 0030
Infinity–0068
Inteq–0031
JBL–0068
JCB–0014
JVC–0067
KEC–0194
KTV–0194, 0044
Kenwood–0044, 0033
Konka–0721, 0646, 0642, 0652, 0717
LG–0070
LXI–0168, 0061, 0068, 0170, 0192, 0761
Logik–0030
Luxman–0070
MGA–0164, 0033, 0044, 0192
MTC–0074, 0044, 0033, 0070
Magnavox–0068, 0044, 0193, 1268
Majestic–0030
Marantz–0068, 0044
Matsushita–0264
Megatron–0159, 0192
Memorex–0193, 0477, 0192, 0030, 0070, 0164, 0168, 0264
Midland–0031, 0061, 0065, 0761

Minutz–0035
Mitsubishi–0164, 0192, 0033, 0107
Motorola–0107
Multitech–0194
NAD–0170, 0180, 0192
NEC–0044, 0033, 0070
NTC–0106
Nikko–0192, 0044, 0106
Onwa–0194
Optimus–0264, 0180, 0168
Optonica–0107
Orion–0477, 0193, 0250
Panasonic–0065, 0264
Penney–0061, 1361, 0074, 0044, 0035, 0192, 0065, 0033, 0070, 0170, 0761
Philco–0159, 0033, 0044, 0068, 0477
Philips–0068
Pilot–0033, 0044
Pioneer–0180, 0693
Portland–0033, 0106
Princeton–0731
Prism–0065
Proscan–0061, 0761
Proton–0192
Pulsar–0031, 0033
Quasar–0065, 0264
RCA–0061, 1361, 1161, 0693, 1261, 0033, 0065, 0104, 0107, 0761, 1061, 1461
Radio Shack–0194, 0044, 0192, 0168, 0033, 0061, 0070, 0761
Realistic–0194, 0168, 0044, 0192, 0033, 0070
Runco–0617, 0031, 0044
SSS–0033, 0194
Sampo–0044
Samsung–0074, 0033, 0192, 0044, 0070
Sansei–0465

Sansui–0477
Sanyo–0168
Scimitsu–0033
Scotch–0192
Scott–0250, 0033, 0192, 0193, 0194
Sears–0168, 0070, 0170, 0061, 0068, 0185, 0192, 0193, 0761
Semivox–0194
Semp–0170
Sharp–0107, 0702
Shogun–0033
Signature–0030
Sony–0014, 0125
Soundesign–0192, 0193, 0194
Squareview–0185
Starlite–0194
Supreme–0014
Sylvania–0068, 0044
Symphonic–0185, 0194
TMK–0070, 0192
TNCi–0031
Tandy–0107
Technics–0065, 0264
Technol Ace–0193
Techwood–0065, 0070
Teknika–0030, 0068, 0193, 0194, 0033, 0106, 0070, 0074, 0164
Telefunken–0070
Toshiba–0170, 0074, 0168, 1270
Vector Research–0044
Victor–0067
Vidikron–0068
Vidtech–0033, 0192
Wards–0068, 0192, 0030, 0125, 0033, 0035, 0044, 0070, 0193
White Westinghouse–0638, 0637, 0477
Yamaha–0033, 0044
Zenith–0031, 0638, 0030, 0106, 0477

4

VCR Setup Codes (for VCRs, DVDs, and CD players)

Use the VCR mode key to program your VCR, DVD, or CD player.
Enter all 4 digits to program the VCR mode key.

VCR Codes

Brand—Code

Admiral–0062, 0223
Adventura–0014
Aiwa–0014, 0051
Akai–0055
American High–0049
Asha–0254
Audiovox–0051
Beaumark–0254
Bell & Howell–0118
Broksonic–0135, 0198, 0223, 0493
CCE–0086
Calix–0051
Canon–0049
Carver–0095
Citizen–0051
Colt–0086
Craig–0051, 0086, 0061, 0254
Curtis Mathes–0049, 0055, 0074, 0176, 0774
Cybernex–0254
Daewoo–0059
Denon–0056
Dynatech–0014
Electrohome–0051
Electrophonic–0051
Emerex–0046
Emerson–0198, 0223, 0135, 0493, 0014, 0051, 0057
Fisher–0061, 0118
Fuji–0047, 0049

Funai–0014
GE–0049, 0074, 0062, 0254, 0774
Garrard–0014
GoldStar–0051
Gradiente–0014
HI-Q–0061
Harley Davidson–0014
Harman/Kardon–0095
Harwood–0086
Hitachi–0056, 0014, 0055
Hughes Network Systems–0056
JVC–0081, 0055
Jensen–0055
KEC–0051
KLH–0086
Kenwood–0055, 0081
Kodak–0049, 0051
LXI–0051
Lloyd's–0014
Logik–0086
MEI–0049
MGA–0057, 0254
MGN Technology–0254
MTC–0014, 0254
Magnavox–0049, 0095, 0014, 0053
Magnin–0254
Marantz–0095, 0049
Marta–0051
Matsushita–0049, 0176

Memorex–0118, 0061, 0493, 0014, 0051, 0062, 0049, 0254, 1051, 0053, 0176, 0223, 1176, 1276
Minolta–0056
Mitsubishi–0057, 0062, 0081
Motorola–0049, 0062
Multitech–0014, 0086
NEC–0055, 0081, 0118
Nikko–0051
Noblex–0254
Olympus–0049
Optimus–0176, 1076, 1176, 0062, 1276, 0051, 1062, 0118
Orion–0493, 0198, 0223
Panasonic–0049, 0176, 1176, 1276, 0239, 0630, 1076
Penney–0049, 0254, 0051, 0056
Pentax–0056
Philco–0049, 0223, 0493
Philips–0095, 0049, 0632
Pilot–0051
Pioneer–0081
Polk Audio–0095
Profitronic–0254
Proscan–0074, 0774
Protec–0086

Pulsar–0053
Quasar–0049, 0176, 1176
RCA–0074, 0056, 0049, 0062, 0254, 0774
Radio Shack–0014, 1051
Radix–0051
Randex–0051
Realistic–0014, 0118, 0061, 0062, 0051, 0049
ReplayTV–0628, 0630
Runco–0053
STS–0056
Samsung–0059, 0254
Sanky–0053, 0062
Sansui–0055, 0493, 0014, 0081, 0223
Sanyo–0061, 0118, 0254
Scott–0198, 0135, 0057, 0059
Sears–0051, 0056, 0014, 0049, 0061, 0118
Semp–0059
Sharp–0062
Shintom–0086
Shogun–0254
Singer–0086
Sony–0047, 0046, 0014, 0049, 0650, 1046

Sylvania–0049, 0095, 0014, 0057
Symphonic–0014
TMK–0254
Tatung–0055
Teac–0014, 0055
Technics–0049, 0176
Teknika–0014, 0049, 0051
Thomas–0014
Tivo–0632, 0650
Toshiba–0059, 0057
Totevision–0051, 0254
Unitech–0254
Vector–0059
Video Concepts–0059
Videosonic–0254
Wards–0049, 0074, 0014, 0061, 0254, 0056, 0062, 0086, 0095, 0774
White Westinghouse–0086, 0223
XR-1000–0086, 0014, 0049
Zenith–0053, 0014, 0047, 0223, 0493

DVD Codes

Brand—Code

Apex–0686
Denon–0504
Fisher–0684
GE–0536
Gradiente–0665
Hitachi–0587, 0678
Hiteker–0686
JVC–0637, 0572
Kenwood–0548
Magnavox–0517, 0689
Marantz–0553
Mitsubishi–0535
Onkyo–0517
Optimus–0585
Oritron–0665
Panasonic–0504, 0646
Philips–0553, 0517
Pioneer–0585, 0539, 0646
Proscan–0536
RCA–0536, 0585
Samsung–0587
Sharp–0644
Sony–0547
Technics–0504
Theta Digital–0585
Toshiba–0517
Yamaha–0504, 0559
Zenith–0605, 0517

CD Codes

Brand—Code

Aiwa–0171
California Audio Labs–0043
Carver–0171, 0193
DKK–0014
Denon–0887
Fisher–0193
Genexxa–0046
Harman/Kardon–0171, 0187
Hitachi–0046
JVC–0086
Kenwood–0042, 0840, 0051, 0640, 0695
Krell–0171
Linn–0171
MCS–0043
Magnavox–0171
Marantz–0171, 0640, 0043
Mission–0171
NSM–0171
Onkyo–0882

Optimus–0046, 0193, 1077, 0014, 0051
Panasonic–0043
Philips–0171, 0640
Pioneer–0046, 1076, 1077
Polk Audio–0171
Proton–0171
QED–0171
Quasar–0043
RCA–0046, 1076, 0193
Realistic–0193
Rotel–0171
SAE–0171
Sansui–0171
Sanyo–0193
Sharp–0051, 0875
Sherwood–1081
Sonic Frontiers–0171
Sony–0014, 0504
Technics–0043
Victor–0086
Wards–0171
Yamaha–0902

> **Setup codes for the AUX and CBL mode keys are located on page 7 of this guide.**

5

6