User's Guide

AT2300 AllTouch® Remote Control

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.

Explorer is a registered trademark of Scientific-Atlanta, Inc. "Bringing the Interactive Experience Home" and VCR Commander are trademarks of Scientific-Atlanta, Inc. All other trademarks shown are trademarks of their respective owners.

Controlling Another Set-Top Device

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

1. Press and hold **SELECT** and **CBL** until the light blinks twice.
2. Using the keypad on the remote, press **9 9 6**.
3. Press **CH-** to unlock the set-top device code.

Result: You can now set up your cable device with the following procedure.

Programming for Cable Operation
Use the following steps if you need to program the remote to operate a different cable set-top device.

1. Locate your cable brand in the **Cable Setup Codes** section in this guide. If your brand is not listed, see **Searching the Code Library**.
2. **Important:** Make sure your cable device is turned on.
3. Point the remote *away* from the cable set-top device, 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, try another setup code, if available; or go to **Searching the Code Library**.
6. Point the remote *toward* the cable device and test the **POWER** function by pressing **CBL**.

Cable Setup Codes
The default cable setup code is 0458.

Scientific-Atlanta	0491 (analog), 0891 (digital), 0458 (combination)
General Instrument	0490
Jerrold	0490
Motorola	0490
Pioneer	0891
Vidtech	0258

Programming for Volume Control

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

Note: For Explorer DHCTs, press the SETTINGS key to access the General Settings menu on-screen, and make sure that the Audio: Volume Control setting is set to "Variable."

1. Point the remote *away* from the Explorer DHCT, the TV, and the VCR.
2. Press and hold **SELECT** and **CBL** at the same time, until the light on the remote blinks twice.
3. Using the keypad on the remote, press **9 9 3**. The light on the remote blinks twice.
4. Press **TV** or **CBL**, depending on which device is set 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 then press **VOL+** and **VOL-** to confirm that the correct device adjusts the volume.

Programming the Remote Control

Introduction
The AT2300 AllTouch® Remote Control (remote) can do the job of three separate remote controls. You can program the remote to operate your TV, VCR, and cable set-top device using the procedures in this guide.

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

Programming for TV Operation
You can program the remote to operate various TV functions, such as power, volume, and mute.

Note: Your cable service provider may have programmed your remote to control the volume through your cable set-top device instead of through the TV. If that is the case, you can re-program your remote to control the volume through your TV. See **Programming for Volume Control** on page 3 of this guide.

1. Locate your TV brand and TV setup code in the table in this guide. If your brand is not listed, see **Searching the Code Library**.
2. **Important:** Turn on your TV.
3. Point the remote *away* from the cable set-top device, TV, and VCR.
4. Press and hold **SELECT** and **TV** until the light blinks twice.
5. Enter the setup code for your TV. The light on the remote should blink twice. If not, try another setup code, if available; or go to **Searching the Code Library**.
6. Point the remote *toward* the TV and test the **POWER**, **VOLUME**, and **MUTE** functions.

   Note: If these functions do not operate, enter the next setup code from the list, and repeat this procedure from step 1.

Programming for VCR Operation
You can program the remote to operate your VCR. After you switch the remote to VCR operation, you can play, fast-forward, pause, rewind, or stop a VCR tape.

If you want the DHCT to manage the recording of events with your VCR, you must use the VCR Commander™ Service. (See the *VCR Commander Service User's Guide* for more information or ask your cable service provider.) Without this service, you must manually set up your VCR to record programs.

1. Move the VCR/VOD slide switch on the remote to the **VCR** position.
2. **Important:** Turn on your VCR.
3. Locate your VCR brand and setup code in the table in this guide. If your brand is not listed, see **Searching the Code Library**.
4. Point the remote *away* from the cable set-top device, the TV, and the VCR.
5. Press and hold **SELECT** and **VCR** until the light blinks twice.
6. Enter the setup code for your VCR. The light on the remote should blink twice. If not, try another setup code, if available; or go to **Searching the Code Library**.
7. Point the remote *toward* the VCR and test the **POWER**, **PLAY**, and **STOP** functions. If these functions do not operate, enter the next setup code in the list, and repeat this procedure from step 2.

Record of Codes
When you determine the correct setup code for your devices, record your setup codes in the following table for future reference.

TV				
VCR				
CBL				

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.

1. **Important:** 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 power 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. Using the remote control keypad, press **9 9 1**. The light blinks twice.
5. Point the remote *toward* the device, and press the appropriate power key (CBL, TV, VCR).
6. Did the device turn off?
   • If **yes**, go to step 7.
   • If **no**, press the Up Arrow Key to go to the next code, and press **POWER** to test the new code.
   Note: The light on the remote blinks three times when you reach the end of the code library. Each library contains the following number of codes:
   • VCR: 25 codes
   • TV: 38 codes
   • CBL: 5 codes
7. Press **SELECT** to confirm a valid code. The light on the remote blinks twice.
8. Point the remote *toward* the device, and press the appropriate power key (CBL, VCR, TV) to confirm that the device turns on and off.

Identifying Programmed Codes
After you search the library of codes, you can find out which code you used to program your TV, VCR, or cable device. Use the following procedure to identify the programmed codes. Record the codes in the space provided.

1. Point the remote *away* from the cable set-top device, the TV, and the VCR.

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2. To identify the code, press **SELECT** and the appropriate device key (CBL, VCR, TV) until the light on the remote blinks twice. For example, to identify the VCR code, hold SELECT and VCR until the light blinks twice.
3. Using the remote control keypad, press **9 9 0**. The light on the remote blinks twice.
4. Press **1** and then count the light blinks. The number of blinks indicates the first digit 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 then count the light blinks. The number of blinks indicates the second number in the code.
6. Press **3** and then count the light blinks. The number of blinks indicates the third number in the code.
7. Press **4** and then count the light blinks. The number of blinks indicates the fourth number in the code.
8. Write down your codes in the **Record of Codes** section on page 1.

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. You can access the Explorer eClub on the Internet at the following address:

www.scientificatlanta.com/explorerclub

To join the Explorer eClub, you must enter the serial number of your DHCT. The number is located on a label either on the back panel or on the bottom of your DHCT and begins with S/N. Write the serial number here:

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Your cable service provider may ask for your serial number if your system requires troubleshooting in the future.

AT2300 AllTouch® Remote Control Quick Reference

T9808
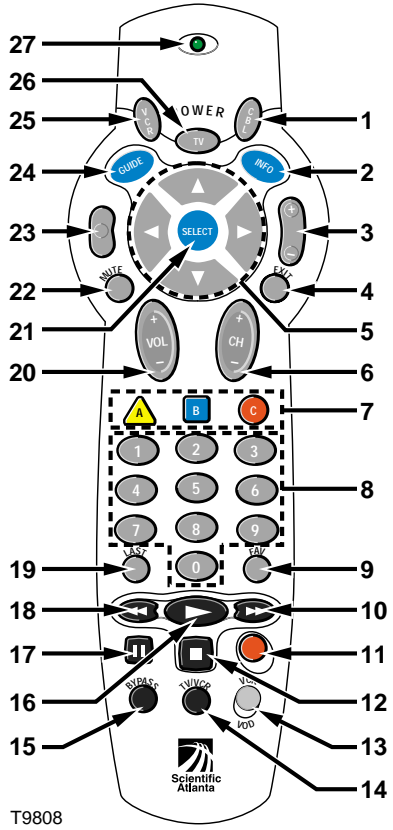
Important: Program the remote control before you use the cable set-top device. See **Programming the Remote Control** for instructions.

Power

1		Cable set-top device on or off
25		VCR on or off
26	TV	TV on or off
27		Light

Sound

22	MUTE	Mutes sound
20	VOL	Adjusts volume

Screens

3	PAGE	Pages Up/Pages Down
4	EXIT	Hides interactive screen
7	A B C	Activates on-screen choices
24	GUIDE	Displays interactive program guide
23	SETTINGS	Displays DHCT settings
5		Moves through interactive screen choices
17		Pauses VCR/VOD
21	SELECT	Chooses interactive screen item

4

Device Control

13	VCR VOD	Switches control between your VCR and Video-On-Demand (VOD) program
14	TV/VCR	Controls the TV/VCR function on your VCR
15	BYPASS	Controls the Bypass option, if applicable

Channels

2	INFO	Displays channel information
6	CH	Selects channels, up or down
8		Allows you to enter channel numbers (or enter your parental control PIN)
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

5

Replacing the Batteries

Your remote control requires two AA *alkaline* batteries. Use the following procedure to replace the batteries.

Note: If the light on your remote flashes twice whenever you press a key, the batteries are weak and should be replaced.

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

T6434
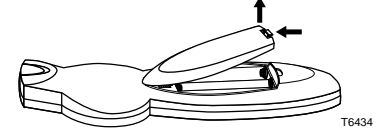
2. Remove and safely dispose of the old batteries.

3. Insert and firmly seat two new AA batteries (alkaline required) into the battery compartment.

4. Slide the battery cover back onto the remote control, and snap the cover into place.
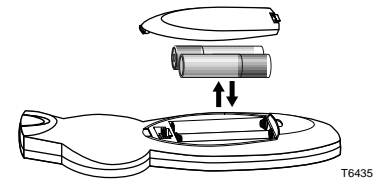
T6435

TV Setup Codes

You must enter all four digits to program the TV setup codes.

TV Brand	Codes
AOC	0044
Admiral	0107, 0477
Aiko	0106
Akai	0044
Alaron	0193
America Action	0194
Ampro	0765
Anam	0194
Audiovox	0106, 0194, 0465, 0637
Baysonic	0194
Bell & Howell	0030, 0168
Bradford	0194
Broksonic	0250, 0477
CXC	0194
Candle	0044
Carnivale	0044
Carver	0068
Celebrity	0014
Cineral	0465, 0106
Citizen	0044, 0074, 0106
Contec	0194
Craig	0194
Crosley	0068
Crown	0194
Curtis Mathes	0074, 0044, 0030, 0061, 0065, 0068, 0107, 0159, 0168, 0180, 0465
Daewoo	0106, 0637, 0638, 0465
Denon	0159
Dumont	0031
Dwin	0734
Electroband	0014
Emerson	0250, 0194, 0192, 0193, 0477, 0638, 0637, 0168
Envision	0044
Fisher	0168
Fujitsu	0193, 0697
Funai	0194, 0185, 0193
Futuretech	0194
GE	0035, 0061, 0065, 0192, 0465, 0107
Gibralter	0031, 0044
GoldStar	0192, 0044
Gradiente	0067
Grunpy	0193, 0194

Hallmark	0192
Harley Davidson	0193
Harman/Kardon	0068
Harvard	0194
Hitachi	0159, 0030
Infinity	0068
Inteq	0031
JBL	0068
JCB	0014
JVC	0067
KEC	0194
KTV	0194, 0044
Kenwood	0044
Konka	0721, 0646, 0642, 0652, 0717
LXI	0168, 0061, 0068, 0170, 0192
Logik	0030
MGA	0164, 0044, 0192
MTC	0074, 0044
Magnavox	0068, 0044, 0193
Majestic	0030
Marantz	0068, 0044
Matsushita	0264
Megatron	0159, 0192
Memorex	0193, 0477, 0192, 0030, 0164, 0168, 0264
Midland	0031, 0061, 0065
Minutz	0035
Mitsubishi	0164, 0192, 0107
Motorola	0107
Multitech	0194
NAD	0170, 0180, 0192
NEC	0044
NTC	0106
Nikko	0192, 0044, 0106
Onwa	0194
Optimus	0264, 0180, 0168
Optonica	0107
Orion	0477, 0193, 0250
Panasonic	0065, 0264
Penney	0061, 0074, 0044, 0035, 0192, 0065, 0170
Philco	0159, 0044, 0068, 0477
Philips	0068
Pilot	0044
Pioneer	0180
Portland	0106
Princeton	0731
Prism	0065

Proscan	0061
Proton	0192
Pulsar	0031
Quasar	0065, 0264
RCA	0061, 0065, 0107
Radio Shack	0194, 0044, 0192, 0168, 0061
Realistic	0194, 0168, 0044, 0192
Runco	0617, 0031, 0044
SSS	0194
Sampo	0044
Samsung	0074, 0192, 0044
Sansei	0465
Sansui	0477
Sanyo	0168
Scotch	0192
Scott	0250, 0192, 0193, 0194
Sears	0168, 0170, 0061, 0068, 0185, 0192, 0193
Semivox	0194
Semp	0170
Sharp	0107, 0702
Signature	0030
Sony	0014
Soundesign	0192, 0193, 0194
Squareview	0185
Starlite	0194
Supreme	0014
Sylvania	0068, 0044
Symphonic	0185
TMK	0192
TNCi	0031
Tandy	0107
Technics	0065, 0264
Technol Ace	0193
Techwood	0065
Teknika	0030, 0068, 0193, 0194, 0106, 0074, 0164
Toshiba	0170, 0074, 0168
Vector Research	0044
Victor	0067
Vidikron	0068
Vidtech	0192
Wards	0068, 0192, 0030, 0035, 0044, 0193
White Westinghouse	0638, 0637, 0477
Yamaha	0044
Zenith	0031, 0638, 0030, 0106, 0477

6

VCR Setup Codes

You must enter all four digits to program the VCR setup codes.

VCR Brand Codes

Admiral	0062, 0223
Adventura	0014
Aiwa	0014, 0051
American High	0049
Asha	0254
Audiovox	0051
Beaumark	0254
Bell & Howell	0118
Broksonic	0135, 0198, 0223
CCE	0086
Calix	0051
Canon	0049
Carver	0095
Citizen	0051
Colt	0086
Craig	0051, 0086, 0061, 0254
Curtis Mathes	0049, 0074, 0176
Cybernex	0254
Daewoo	0059
Denon	0056
Dynatech	0014
Electrohome	0051
Electrophonic	0051
Emerex	0046
Emerson	0198, 0223, 0135, 0014, 0051, 0057
Fisher	0061, 0118
Fuji	0047, 0049
Funai	0014
GE	0049, 0074, 0062, 0254
Garrard	0014
GoldStar	0051
Gradiente	0014
HI-Q	0061
Harley Davidson	0014
Harman/Kardon	0095
Harwood	0086
Hitachi	0056, 0014
Hughes Network Systems	0056

JVC	0081
KEC	0051
KLH	0086
Kenwood	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, 0014, 0051, 0062, 0049, 0254, 0053, 0176, 0223
Minolta	0056
Mitsubishi	0057, 0062, 0081
Motorola	0049, 0062
Multitech	0014, 0086
NEC	0081, 0118
Nikko	0051
Noblex	0254
Olympus	0049
Optimus	0176, 0062, 0051, 0118
Orion	0198, 0223
Panasonic	0049, 0176, 0630
Penney	0049, 0254, 0051, 0056
Pentax	0056
Philco	0049, 0223
Philips	0095, 0049, 0632
Pilot	0051
Pioneer	0081
Polk Audio	0095
Profitronic	0254
Proscan	0074
Protec	0086
Pulsar	0053
Quasar	0049, 0176

RCA	0074, 0056, 0049, 0062, 0254
Radio Shack	0014
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	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
Sylvania	0049, 0095, 0014, 0057
Symphonic	0014
TMK	0254
Teac	0014
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
White Westinghouse	0086, 0223
XR-1000	0086, 0014, 0049
Zenith	0053, 0014, 0047, 0223

7