AT6400 AllTouch IR Universal Remote Control

User Guide

Welcome to the Ultimate Control Experience

Your new AT6400 AllTouch® Infrared (IR) Universal Remote Control (remote) is a true universal remote, functioning as four remotes in one. As one example, you can use this remote to operate your set-top, your TV, and two other devices, such as a DVD player and VCR.

Important Information About Your Remote

Your remote is initially programmed to only operate your set-top. Therefore, you must program the remote to operate your TV, VCR, or other devices. See **Program the Remote to Control My Devices** to learn how to enter device codes and program your remote.

Note: You must use the IR remote within line of sight of the set-top to operate the set-top correctly.

How Does A Universal Remote Control Work?

You tell the remote which type of device you want to operate using the four keys arched across the top of the remote. These keys, known as **mode keys**, are labeled **STB**, **TV**, **DVD**, and **AUX**. Each mode key is associated with a specific device. As an example, after programming the remote, if you want the remote to operate your TV, you simply press the TV key. Other keys you press on the remote, thereafter, should operate your TV. Want to switch the remote to operate a different device? Just press the mode key for the next device you want to operate. In this guide, you will learn which types of devices you can control and how to program the remote to control your specific devices.

Where Do I Start?

Before you begin using your remote, complete the following initial setup tasks.

Install the Batteries

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.

Visit the Quick Reference Section

Use the Quick Reference section of this guide to familiarize yourself with the remote and the functions of its various keys. Knowing the function and location of the keys on the remote will assist you when you are programming the remote.

Program the Remote

To learn how to program your remote, refer to the sections **What Devices Can I Control**, **What Devices Do I Want to Control**, and **Program the Remote to Control My Devices** for further instructions.

Find a Place to Store Your Remote

Keeping up with one remote is much easier than keeping up with four or five remotes. However, it is still a good idea to find a storage location for your remote. The AT6400 is not a toy. It should be kept out of the reach of children under the age of 6 years.

Program the Remote to Control My Devices

Your remote is initially programmed to only operate your set-top. You will need to set up the remote to operate your other devices using its TV, DVD, and AUX modes. The TV key may be programmed to operate a standard or high-definition television (HDTV). The DVD key may be programmed to operate a DVD player. The AUX key may be programmed to operate a VCR, a receiver, an amplifier, or a Home Theater in a Box (HTIB) system. If the remote provides only limited functionality for a device, you can look for a code that provides more functionality.

Refer to the code tables at the end of this guide to locate additional programming codes.

Note: You have the option to assign some remote keys to operate one device type only. For example, you may want to assign volume control to the TV only. If this is the case, you can reprogram power, volume, and channel control using procedures found later in this guide.

Assigning a Device Code to a Mode Key

1. Refer to the code tables at the end of this guide to locate the information for the device you want to program.

   Note: If your device is not listed, you may be able to program the remote using the Auto-Search function. Go to **What If None of the Codes Work** for instructions.
2. Turn on the device that you want to assign to a mode key.
3. Press and hold the appropriate mode key (**TV**, **DVD**, or **AUX**) on the remote, and then press and hold the **OK** key.
4. Release *both* keys and the mode keys blink twice.
5. Enter the first 4-digit setup code for the device using the numeric keys (0-9) on the remote. The mode key blinks three times to indicate that the code entry was accepted.

   Notes:
   - When an invalid code is entered, the selected mode key displays a long flash to indicate that you have not entered the code correctly.
   - Should the remote time-out before you complete the code setup, you must start over. This is indicated by one long flash of the red LED.
6. Point the remote at the device, and press **POWER** to test the device.
7. Did the device power off?
   - If **yes**, write this code number in the table found in this guide. You may need it again if the device code is accidentally erased.
   - If **no**, repeat this procedure from step 3 using a different setup code.

   Note: If none of the codes listed for your brand of device operate the device correctly, go to **What If None of the Codes Work** for instructions.
8. Repeat this procedure for each mode key you want to program.

What If None of the Codes Work?

If none of the codes listed for your brand of device operate the device correctly, or if your device is not listed in the codes table, you can use the Auto-Search function to search through the code library for a valid code. This section provides procedures for using the Auto-Search function to search the code library for TV, DVD and AUX mode codes.

Note: Read the procedures in this section thoroughly before beginning. You need to be prepared to observe the behavior of the remote.

Auto-Search Features

Consider the following items when using Auto-Search:

- The Auto-Search function begins searching from the first code.
- If a valid code is not found, the green backlight blinks twice and the remote returns to normal operation.
- If any other key is pressed except PLAY, ENTER, POWER, EXIT, REW, FF, or numeric keys 1 through 4 (when programming the AUX mode key), the mode key displays a long red flash (error message) and the remote returns to normal operation.
- Should the remote time-out before you complete the Auto-Search function you must start over. This is indicated by one long flash of the red LED.
- If the device is not listed and the Auto-Search function is unable to find a usable code, you may need to use the original remote provided with the device.

Auto-Searching the Code Library for TV or DVD Mode Codes (Program Code 922)

Note: This procedure only applies to TVs and DVDs.

1. Turn on the device you that you want to assign to the TV or DVD key.
2. Point the remote at the device.
3. Press and *while holding* the **AUX** key, press the **OK** key.
4. Release *both* the **AUX** key and the **OK** key and all the mode keys blink twice.
5. Enter the programming code **9 2 2** by pressing the numeric keys on the remote. The AUX key blinks twice indicating a successful entry.
6. Press the **PLAY** key, choose one of the following device categories and then, using the number keys on the remote, press its assigned number (1 – 4) based on the following list:

   1 = VCRs 2 = Receiver/Tuners
   3 = Amplifiers 4 = HTIB

   Note: The device categories are number-coded to provide a more direct programming method.
7. Point the remote toward the device, and press **PLAY**.
8. Your device powers off when it finds the correct code. Then, choose one of the following options:
   - **Save code and exit** – Press the **ENTER** key on the remote to program the code in the remote and the mode key flashes three times indicating successful entry.
   - **Step forward** – Press the fast-forward (**FF**) key on the remote to step ahead through the codes one at a time. Then, return to step 7.
   - **Step backward** – Press the rewind (**REW**) key on the remote to step back through the codes one at a time. Then, return to step 6.
   - **Exit without saving the code** – Press the **EXIT** key on the remote. The selected mode key flashes three times and returns to normal operation.
   - **Send the current code** – Press the **POWER** key on the remote to send the current code. If the device turns back on, press the **ENTER** key. If the device does not turn on, return to step 7.
   - **Continue with auto-search function** – Press the **PLAY** key on the remote to continue with the auto-search function. Then, return to step 7.

Auto-Searching the Code Library for AUX Mode Codes (Program Code 922)

1. Turn on the device that you want to assign to the AUX key.
2. Point the remote at the device.
3. Press and *while holding* the **AUX** key, press the **OK** key.
4. Release *both* the **AUX** key and the **OK** key and all the mode keys blink twice.
5. Enter the programming code **9 2 2** by pressing the numeric keys on the remote. The AUX key blinks twice indicating a successful entry.
6. Press the **PLAY** key, choose one of the following device categories and then, using the number keys on the remote, press its assigned number (1 – 4) based on the following list:

   1 = VCRs 2 = Receiver/Tuners
   3 = Amplifiers 4 = HTIB

   Note: The device categories are number-coded to provide a more direct programming method.
7. Point the remote toward the device, and press **PLAY**.
8. Your device powers off when it finds the correct code. Then, choose one of the following options:
   - **Save code and exit** – Press the **ENTER** key on the remote to program the code in the remote and the mode key flashes three times indicating successful entry.
   - **Step forward** – Press the fast-forward (**FF**) key on the remote to step ahead through the codes one at a time. Then, return to step 7.
   - **Step backward** – Press the rewind (**REW**) key on the remote to step back through the codes one at a time. Then, return to step 6.
   - **Exit without saving the code** – Press the **EXIT** key on the remote. The selected mode key flashes three times and returns to normal operation.
   - **Send the current code** – Press the **POWER** key on the remote to send the current code. If the device turns back on, press the **ENTER** key. If the device does not turn on, return to step 7.
   - **Continue with auto-search function** – Press the **PLAY** key on the remote to continue with the auto-search function. Then, return to step 6.

Reassign Mode Keys

You can reassign a mode key to operate a different device. For example, you can reassign the AUX key to operate a DVD player or a TV. If you reassign a key, be sure you update the table found in this guide.

Reassigning Mode Keys (Program Code 944)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* the keys and all mode keys flash twice.
4. Enter the programming code **9 4 4** by pressing the numeric keys on the remote. The STB mode key blinks twice indicating a successful entry.
5. Press and release the mode key associated with the type of device you want to control, and then press and release the mode key that you want to change. The newly assigned mode key blinks one time indicating a successful entry.

   Some common examples:
   - To program the AUX key to operate your DVD player, press **DVD** and then **AUX**.
   - To program the DVD key to operate your TV, press **TV** and then **DVD**.

Change Volume Control

By default, once the TV mode key is programmed with a valid code, the volume and mute buttons control your TV. These keys adjust the volume of your TV higher, lower, or temporarily switch the volume off (Mute), regardless of whether the remote is in STB, TV, DVD, or AUX mode.

If you prefer, you can choose to have the volume and mute buttons always control a different device rather than your TV, such as a home theater receiver. (See **Controlling Volume For One Device** below.) Note that you must first program one of the mode keys, such as AUX, with a valid code for that device.

Alternatively, you can choose to have the volume and mute buttons control different devices when the remote is in different modes. For example, you might want to control the volume on your TV when in TV mode, but the volume on your home theater receiver when in AUX mode. (See **Controlling Volume for Different Devices** below.) Note that not all devices have volume controls, so if you choose this option, the volume and mute buttons may do nothing in some modes, such as STB and DVD.

Controlling Volume for One Device (Program Code 955)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 5 5** by pressing the number keys on the remote. The STB mode key blinks twice indicating a successful entry.
5. Press and release the mode key for the device you want the volume keys to control. For example, if you want to control volume through your TV, press and release **TV**. The selected mode key blinks three times to indicate a successful entry.

The volume keys now control only one device whether you are in STB, TV, DVD, or AUX mode.

Controlling Volume for Different Devices (Program Code 955)

1. Complete steps 1 through 4 of the **Controlling Volume for One Device** procedure.
2. Press and release the **Enter** key. The STB mode key blinks three times to indicate a successful entry.

After you press the **Enter** key, the volume keys control the device assigned to that mode. For example, in TV mode, the volume keys control volume for the TV only.

Notes:
- If any other key is pressed except the Mode keys and the **ENTER** key, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming volume control, the remote does not accept any changes. You must start over from step 1 of this procedure.

Change Channel Control

The remote is set by default to control channel selection on the set-top. You can also program channel control to control any of the TV, DVD, or AUX mode devices provided the device allows for channel control assignment. Or, you can set the channel selection control programming to control channels (or page up or down) for all of the devices programmed in the four mode keys. Otherwise, you can only control channels (or page up or down) on a specific device, for example, the TV or DVD.

Note: The channel control keys include CH/Page, Jump, and the numeric keys 0 through 9.

Controlling Channels for One Device (Program Code 966)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 6 6** by pressing the numeric keys on the remote. The STB mode key blinks twice to indicate a successful entry.
5. Press and release the mode key for the device you want the channel keys to control. For example, if you want to control channels on your TV, press and release **TV**. The selected mode key blinks three times to indicate a successful entry.

The channel key now always controls the device associated with the mode you selected in this procedure, whether in STB, TV, DVD, or AUX mode.

Controlling Channels for Different Devices (Program Code 966)

1. Complete steps 1 through 4 of the **Controlling Channels for One Device** procedure.
2. Press and release the **Enter** key. The STB mode key blinks three times to indicate a successful entry.

After you press the **Enter** key, the channel key now controls the device associated with the mode key you select. For example, in TV mode, the channel key controls the TV, but in STB mode, the channel key controls the set-top.

Notes:
- If any other key is pressed except the Mode keys and the **ENTER** key, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming channel selection control, the remote does not accept any changes. You must start over from step 1 of this procedure.

Change Power Control

The POWER key on the remote is set by default to control the power switch on one device at a time, in either mode (STB, TV, DVD, or AUX). When in STB mode, the remote switches the set-top from OFF (standby mode) to ON, or from ON to OFF (standby mode). However, you can alternatively program the POWER key to control the power switch on up to four devices at the same time, instead of controlling one device at a time. It is highly recommended that you set up the POWER key to turn on and off your set-top and your TV at the same time. Turning off the set-top saves electricity and extends the life of the box. When turned off, the set-top can *still* record scheduled programs on its DVR and perform any other necessary functions.

Controlling Power for Multiple Devices at Once (Program Code 977)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 7 7** by pressing the numeric keys on the remote. The STB mode key blinks twice to indicate a successful entry.
5. For the first device, press the **STB** key. The STB mode key blinks twice.
6. For the second device, press the applicable mode key (TV, DVD, or AUX). The selected mode key blinks twice.
7. Repeat step 6 for up to two more devices (total of four devices).
8. Press the **ENTER** key to complete the power switch control programming. The last selected mode key blinks 3 times to indicate a successful entry.

Example: In an example scenario where you press only TV in steps 6 and 7, the POWER key controls *both* the set-top and the TV at the same time, regardless of which mode the remote is in (STB, TV, DVD, or AUX).

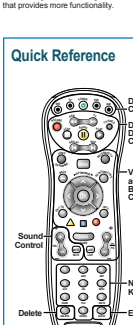
Controlling Power for One Device at a Time (Program Code 977)

1. Complete steps 1 through 4 of the **Controlling Power for Multiple Devices at Once** procedure.
2. Press the **ENTER** key to complete the power switch control programming. The last selected mode key blinks 3 times to indicate a successful entry.

After you select a mode, the POWER key controls the device assigned to that mode. For example, in TV mode, the remote controls power for the TV only.

Notes:
- If any other key is pressed except the Mode keys and the **ENTER** key, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming power switch control, the remote does not accept any changes. You must start over from step 1 of this procedure.

Quick Reference



Device Control

- Turns devices on or off
- Enables set-top mode functions
- Enables TV mode functions
- Enables DVD mode functions
- Enables AUX mode functions

DVR, VOD, DVD, VCR Control

Notes:
- In STB mode, these keys control DVR and VOD functions.
- In DVD and AUX modes, these keys may control your DVD or VCR depending on how you have programmed the remote.

- Records the selected program
- Stops DVD, VCR, VOD, or DVR content
- Pauses DVD, VCR, VOD, or DVR content
- Plays DVD, VCR, VOD, or DVR content
- Scrolls through available TV or video input sources
- Rewinds or fast forwards through DVR or VOD content
- Skips backward or forward through DVR or VOD content

Viewing and Browsing Control

- Accesses the On Demand menu
- Returns to previous screen
- Accesses the Main Menu
- Accesses the DVR list of recordings
- Enables Interactive mode
- Moves through selections
- Selects and deselects screen items
- Returns from menu screens and to viewing TV or video
- Selects options in menus and the program guide
- Displays text information about the selected program
- Displays or closes the IPG
- Returns to last channel viewed
- Selects the next channel, up or down, when watching TV. Moves up or down one page in the IPG and in some menu screens

Sound Control

Note: These keys are assigned to the TV when the TV mode key is programmed with a valid code.

- Adjusts volume
- Mutes sound

Numeric Keys

- Enters channel numbers, text, and remote codes. Also use to enter your parental control PIN
- Clears text and numbers in text fields
- Enters and saves (stores) an entry. Sizes the picture for some high-definition television (HDTV) models

What Devices Can I Control?

The four **mode keys** arched across the top of the remote tell the remote which device you want to operate.

Each mode key is associated with different types of devices. You can use each mode key to control one of its associated devices:

Mode Key	Associated Devices
STB	IP gateway set-top
TV*	TVs (including HDTVs)
DVD*	DVD players
AUX*	VCRs, receivers, tuners, and Home Theater in a Box (HTIB)

* These keys can be reassigned to control different devices. Go to the **Reassign Mode Keys** section of this guide for instructions.

LED Indicators

There are red LEDs underneath each of the four mode keys (STB, TV, DVD, and AUX) that flash each time a key is pressed to show which device the key is currently controlling.

There are also green LEDs that illuminate several keys whenever the remote is in use. They stay illuminated for a short time after a key is pressed.

During programming, if the remote times out before you complete the code setup, you will need to start over. This is indicated by one long flash of the red LED.

What Devices Do I Want to Control?

To help you keep track of the devices you want to control, list the type of devices you have (including brand) in the following table. Then, use the code tables at the end of this guide to locate the codes for your device. For example, look under **TV Group** if you need to program the remote to operate your TV. If you have two devices that use the same key, you must reassign the TV, DVD, or the AUX key. The STB key cannot be reassigned. Go to **Reassign Mode Keys**. Otherwise, go to **Program the Remote to Control My Devices** for additional instructions.

Mode Key	Device Type	Brand	Code
Example: DVD	DVD	Sony	2066
TV			
DVD			
AUX			

Put It Back the Way I Got It

You can return all advanced functions back to their original settings by resetting the remote to factory default settings. Resetting the remote to factory default settings removes all of the programming you have entered for the remote. You must reprogram the remote to restore your original settings.

Resetting the Remote to Factory Default Settings (Program Code 900)

1. Press and hold the **STB** mode key on the remote.
2. Release *both* keys and all mode keys blink twice.
3. Enter the programming code **9 0 0** by pressing the numeric keys on the remote. The STB mode key blinks four times to indicate you have successfully reset the remote to factory default settings.

Notes:

- If any other key is pressed except the numeric keys, the mode does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete the factory default reset procedure, the remote does not accept any changes. You must start over from step 1 of this procedure.

Troubleshooting

If there is no response when you press the keys on the remote, please check the following items before calling for service.

Check the Batteries

- Are the batteries inserted correctly?
- Check the battery condition for leakage.
- Replace with new alkaline batteries.

Check the Device

- Is the device's power cord connected to the power outlet?
- Is the device switched on?

Check the IR Database Codes List

Is the device brand name for the device listed in the code list?

- If **yes** and there is more than one code listed, try using a different code to provide more functionality.
- If **no**, try the following:
  - Use the Auto-Search function to find a usable code.
  - If the Auto-Search function is unable to find a usable code, you may need to use the original remote provided with the device.

Code Tables

If the remote does not recognize your device, you can find codes for your device by brand name. Code tables in this section are organized by the devices assigned to each mode (TV, DVD, and AUX).

TV Mode Group

TV

Abex 1088
Admiral 1009, 1022, 1023
Advent 1285, 1376, 1476, 1285, 1594
Adventura 1100
Aiko 1015
Aiwa 1024, 1098
Akai 1016, 1061, 1158, 1432, 1524, 1612
Alaron 1022
Alexander 1408
America Action 1036
ADC 1016, 1361, 1562, 1600, 1635
Apex Digital 1039, 1111, 1163, 1520
Audiovox 1035, 1135, 1455
Bang & Olufsen 1453
Belcor 1018
Bell & Howell 1001, 1043
BenQ 1041, 1136, 1545, 1557
Bradford 1036
Brokaw 1025, 1028, 1114, 1362
Brokwood 1018
Candle 1007, 1061, 1100, 1363
Celebrity 1002
Citizen 1011, 1015, 1061, 1073, 1100,1114, 1363
Clarion 1036
Concerto 1363
Contec 1036
Craig 1036
Crosley 1002, 1047
Crown 1011, 1036
Curtis 1363, 1524, 1642
Curtis Mathes 1001, 1009, 1013, 1043, 1073, 1094, 1385
CVC 1036
Cyclron 1252, 1456
Daewoo 1011, 1013, 1015, 1018, 1043, 1106, 1135 ,1558, 1524, 1658
Dayton 1018
Diamond Vision 1469, 1461
DirecTV 1374
Dumont 1018, 1020
Dunsbred 1023, 1024, 1038, 1333, 1481

TV, continued

Dynex 1511, 1558, 1588, 1609
Electrohome 1002
Electrophone 1023
Emerson 1011, 1020, 1022, 1023, 1028, 1031, 1033, 1036, 1041, 1045, 1060, 1097, 1101, 1107, 1362, 1485
Envision 1061, 1361, 1529, 1562
Fisher 1040
Fujitsu 1007, 1022, 1029
Funai 1002, 1022, 1 24, 1038, 1090, 1554
Futuretec 1036
Gateway 1036, 1042, 1408
GE 1000, 1003, 1004, 1006, 1021, 1048, 1049, 1063, 1068, 1094, 1144, 1164, 1224, 1367, 1380, 1381, 1385, 1386
Gibralter 1018, 1020, 1081
Goldstar 1004, 1005, 1011, 1016, 1050, 1090, 1091, 1097, 1098, 1400, 1401
Grunpy 1022, 1036
Hallmark 1333
Harley Davidson 1022, 1090
Harvard 1036
Hitachi 1112, 1652, 1630, 1637
1004, 1011, 1012, 1051, 1052, 1084, 1085, 1086, 1087, 1153, 1225, 1384
HP 1408, 1419, 1517
Hyper 1036
Lloyd 1040, 1436, 1437
Insignia 1024, 1232, 1437, 1501, 1507, 1519, 1593, 1595, 1596, 1598, 1631, 1636
Infinity 1047
Jared 1100
JBL 1047
JCB 1002
Jensen 1228, 1376, 1521, 1594
JVC 1011, 1012, 1028, 1049, 1052, 1054, 1055, 1080, 1092, 1119, 1121, 1425, 1568, 1596
KEC 1030
Kenwood 1016, 1061
Kloss 1100
KTV 1011, 1036, 1061, 1101, 1490
LG 1020, 1146, 1235, 1333, 1364, 1631
Linksys 1408
Lloyd's 1090
Logik 1001
Luxman 1363
LXI 1043, 1047, 1058, 1068, 1094, 1333
Magnavox 1004, 1007, 1014, 1053, 1056, 1057, 1058, 1060, 1083, 1110, 1147, 1228, 1260, 1300, 1301, 1302, 1321, 1326, 1336, 1365, 1366, 1371, 1384, 1387
Magnin 1380
Majestic 1001
Marantz 1017, 1047, 1091,1113, 1239, 1525, 1641
Media Center 1408
Megatron 1333, 1001
Memorex 1001, 1022, 1023, 1121, 1333
MEI-A 1016, 1032, 1061, 1333, 1380
Midland 1011, 1020, 1049, 1058, 1094, 1098
Minutz 1021
Mitsubishi 1005, 1006, 1008, 1032, 1163, 1333, 1535, 1540
Monivision 1257, 1477
Motorola 1009
MTC 1018, 1061, 1073, 1363
Multitech 1036, 1408
NAD 1058, 1333, 1363, 1550
NEC 1016, 1061, 1162, 1166, 1167, 1423, 1523, 1524, 1643
Net TV 1408
Olevia 1004, 1408, 1421, 1463, 1488
Nikko 1015, 1061, 1333
Norcent 1112, 1183, 1531, 1562, 1568, 1569
NTC 1015
Orion 1036
Optimus 1043, 1090, 1145, 1165, 1189, 1335
Optonica 1005, 1006
Orion 1022, 1023, 1028, 1121, 1122, 1362, 1511
Otto 1040
Panasonic 1003, 1010, 1044, 1055, 1056, 1096, 1122, 1152, 1231, 1289, 1292, 1295, 1303, 1304, 1305, 1306, 1385
PARK 1003
Penney 1011, 1012, 1015, 1021, 1036, 1043, 1073, 1094, 1098, 1333, 1380, 1385, 1558
Philco 1003, 1004, 1005, 1007, 1011, 1018, 1033, 1036, 1057, 1059
Philips 1003, 1004, 1007, 1011, 1017, 1018, 1033, 1036, 1057, 1059, 1060, 1063, 1110, 1126, 1129, 1148, 1155, 1228, 1230, 1240, 1284, 1285, 1290, 1291, 1297, 1304, 1331, 1337, 1559
Pilot 1011, 1018, 1061
Pioneer 1035, 1102, 1140, 1153, 1469
Polaroid 1044, 1111, 1232, 1363, 1371, 1391, 1392, 1393, 1407, 1446, 1449, 1450, 1545, 1583, 1585, 1661
Portland 1011, 1012, 1018, 1136
Prima 1285, 1376, 1476, 1621, 1594
Princeton 1257
Prism 1049
Proscan 1003, 1061, 1068, 1094, 1398, 1558, 1605, 1614
Proton 1333
Protron 1430, 1494
Proview 1427, 1565
Pulser 1018, 1020
Quasar 1049, 1094, 1098, 1163, 1305, 1385
Radio Shack 1011, 1018, 1043, 1061, 1084, 1088, 1090, 1094, 1098 , 1333, 1363
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Sungale 2343
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Urban Concepts 2318
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Westinghouse 2372
Xbox 2319
Yamaha 2108, 2246, 2163, 2320, 2389
Zenith 2059, 2052, 2128, 2199, 2224, 2235, 2252, 2308, 2318

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Amplifier

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Akai 6003, 6020
Carver 6022
Citizen 6026
Clarion 6046
Denon 5014, 6035, 6057
Fisher 6002
GE 6028, 6045
Goldstar 6016, 6021
Harman Kardon 6013, 6047
Hitachi 6034
JBL 6056
JVC 6016, 6024, 6041
Kenwood 6015, 6032
Left Coast 6047
Magnavox 6035
Marantz 6000, 6047, 6058
Nakamichi 6012
NEC 6033, 6046
Onkyo 6005, 6006, 6017, 6054, 6056
Optimus 6008, 6046

Amplifier, continued

Panasonic 6001, 6040
Paradigm 6059
Philips 6047
Pioneer 6004, 6005, 6010, 6023, 6035, 6046, 6051
Polk Audio 6047
Proton 6035
Quasar 6001
RCA 6025, 6046
Sharp 6028, 6030, 6031, 6032
Sherwood 6015
Shure 6048
Sony 6002, 6042, 6044, 6049
Soundesign 6045
Tandy 6019
Technics 6001, 6040
Technika 6027
Victor 6024
Wards 6040
Yamaha 6007, 6037, 6038, 6041, 6052, 6053

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Audio	DVD
Apex 4049	2316
Audiovox 4053	2388
Bose 4000	2130, 2215
Cambridge 4060	2395
Coby 4055	2391
Curtis 4056	2387
Denon 4012	2216
Emerson 4057	2392
GPX 4055	2390
Insignia 4059	2394
JBL 4049	2130
JVC 4052, 4053, 4054, 4028	2035, 2217, 2218, 2283
Koss 4052, 4053	2035
LG 4041	2303
Magnavox 4056	2250
Onkyo 4034, 4016, 4017	2024, 2119, 2230
Panasonic 4035, 4018, 4033, 4038, 4039, 4051	2104, 2221, 2300, 2394, 2395, 2397
Philips 4008, 4019, 4027, 4039, 4040, 4042	2035, 2222, 2282, 2304
Pioneer 4007, 4020, 4021, 4029	2016, 2223, 2224
RCA 4049, 4050	2042, 2281, 2161
Samsung 4033, 4036, 4047	2294, 2299, 2305, 2314
Sanyo 4058	2111
Sharp 4061	2396
Sherwood 4062	2397
Sony 4009, 4010, 4022, 4023, 4024, 4026, 4031, 4032, 4033, 4034, 4035, 4036, 4040, 4046, 4048, 4049	2013, 2168, 2225, 2226, 2278, 2288, 2296, 2305, 2306, 2307, 2315
Toshiba 4045, 4046	2227
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Yamaha 4054	2388
Zenith 4037	

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Akai 5083
Audiotronic 5145
Audiovox 5152
Bang & Olufsen 5151
Bose 5027
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Linn 5050, 5143
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Marantz 5000, 5035, 5143, 5145
Mitsubishi 5070, 5071, 5072
Onkyo 5016, 5073, 5074, 5075, 5076, 5077, 5078, 5079, 5080, 5081, 5082, 5084, 5085, 5086, 5087, 5103, 5131, 5140
Optimus 5144
Panasonic 5018, 5020, 5107, 5108, 5109, 5110, 5111, 5115, 5126
Philips 5000, 5012, 5128, 5140, 5143, 5154
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Polaroid 5144
Polk Audio 5143
RCA 5024, 5025, 5026, 5137, 5144
Rotel 5150
Sansui 5033, 5143
Sansui 5030, 5143
Sherwood 5027
Sony 5017, 5023, 5028, 5029, 5030, 5031, 5032, 5033, 5065, 5066, 5097, 5113, 5117, 5121, 5125, 5129, 5133, 5134, 5136, 5146
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Admiral 3001
Adventura 3021
Akai 3021
Akai 3003, 3005, 3059
American High 3016
Apex 3189
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Bang & Olufsen 3222
Bell & Howell 3007
Brandex 3006, 3056, 3062, 3202, 3213
Candle 3011, 3013, 3014

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Thomas 3201
Toshiba 3011, 3020, 3030, 3038, 3096, 3099, 3100, 3103, 3141, 3142, 3149, 3155, 3159, 3167, 3168, 3180, 3182, 3183, 3210, 3219, 3220, 3223, 3227, 3241
Touch 3223
Vector Research 3005, 3056, 3011
Victor 3006
Video Concepts 3006, 3056, 3011
Viewsonic 3223
Waston 3223
Wards 3001, 3011, 3016, 3021, 3023, 3047, 3052
Weathertouch 3052
WS-1000 3016, 3021
Yamaha 3005, 3006, 3007, 3014, 3055
Zenith 3004, 3051, 3058, 3064, 3072, 3087, 3119, 3143, 3144, 3185, 3195, 3198, 3202, 3204, 3211, 3213
ZT Group 3223

Combination Device Codes

If you have a combination device, you may need to reassign the AUX key to operate one of the devices, for example, the VCR. The following tables provide some examples of combination devices. If your combination device is not listed, simply look for the codes for each separate device.

DVD/VCR Combo

DVD	VCR
Apex 2229	3189
Brokaw 2072	3082
Cineform 2229	3242
Daewoo 2062	3076
Emerson 2073	3083
Go Video 2046, 2127, 2129, 2230, 2239, 2249	3098, 3109, 3168, 3193, 3193, 3221
Hitachi 2126, 2173	3117, 3189
Insignia 2395	3223
JVC 2047, 2097, 2185, 2232, 2283, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367	3097, 3118, 3119, 3194, 3195, 3228, 3229, 3230, 3231, 3234, 3235, 3236, 3237, 3241, 3242, 3243, 3245
LG 2363, 2369	3223, 3238
Magnavox 2237	3190
Memorex 2066, 2167, 2228	3079, 3172, 3191
Philips 2051, 2159	3071, 3173
Polaroid 2007	3111
RCA 2045, 2165, 2172	3065, 3174, 3175
Samsung 2049, 2074, 2085, 2233	3099, 3234, 3101, 3184, 3185, 3231
Sanyo 2050	3070
Sharp 2170, 2174	3176, 3177
Sony 2065, 2067, 2171, 2238, 2296, 2297, 2298, 2299, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 3240	3104, 3085, 3179, 3187, 3192, 3178, 3224, 3225, 3226, 3240
Toshiba 2080, 2084, 2168, 2235, 2312, 2358	3103, 3192, 3193, 3185, 3219, 3227, 3241
Zenith 2052, 2128, 2234, 3236	3072, 3119, 3186, 3198

TV/DVD Combo

TV	DVD
Akai 1427	2378
Apex 1163	2095
Aston 1459	2379
Berg & Clutsen 1453	2370
Brokaw 1114	2063
Coby 1460	2380
Cyrion 1459	2374
Emerson 1461 , 1462	2382
Emerson 1150, 1465, 1595	2202, 2213, 2260
Funai 1595	2213
Haier 1581	2508
Hitachi 1114, 1465, 1595	2202, 2213, 2260
Hitachi 1226	2240
Initial 1457	2381
Initial 1457	2381
JVC 1288	2206
LG 1229	2371
Magnavox 1457, 1516, 1595	2213, 2375, 2503
Mintek 1457	2381
Panasonic 1289	2207
Philips 1290, 1291, 1337	2208, 2209, 2243
Polaroid 1458, 1460	2377, 2459
RCA 1115, 1152, 1379	2063, 2099, 2289
Samsul 1122	2271
Sharp 1138	2292
Sylvania 1150, 1464	2202, 2408
Teknika 1116, 1293, 1294, 1345	2204, 2210, 2211
Weldingtouch 1454	2372

TV/VCR Combo

Brand	TV	VCR
America Action	1036	3081
Brokaw	1121, 1362, 1363	3081, 3213, 3232
Curtis Mathes	1385	3081
Daewoo	1268	3150
Emerson	1382, 1383	3213, 3232
Funai	1090	3100
GE	1164, 1385, 1381	3090, 3201, 3203
Hitachi	1080	3021
JVC	1288	3151
LloyDA	1380	3081
Magnavox	1300, 1301, 1302, 1321	3152, 3153, 3154, 3181
Magnin	1380	3201
MGA	1380	3201
Mitsubishi	1381	3203
Optimus	1245, 1165, 1305	3002, 3053, 3091
Orion	1380, 1383	3213, 3232
Panasonic	1305, 1306	3158, 3159
Penney	1380	3201
Philips	1307, 1308	3160, 3182
Quasar	1165, 1166	3091, 3092

Device Program Codes

If you program codes to control devices, record your codes here for easy reference:

Mode Key	Device Type	Brand	Code
Example: DVD	DVD	Sony	2066
TV			
DVD			
AUX			

FCC Compliance

United States FCC Compliance

This device 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 such 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, it may cause harmful interference to radio communications. 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, if applicable.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the cable company or an experienced radio/television technician for help.

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

The information shown in the FCC declaration of conformity paragraph below is a requirement of the FCC and is intended to supply you with information regarding the FCC status of this product. It does not contain any request for action, *questions only and not intended for questions regarding the connection of this operation for this device. Please contact your cable service provider for any questions you may have regarding the operation or installation of this device.*

FC Declaration of Conformity

This device complies with Part 15 of 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.

AllTouch IR Universal Remote Control
ATS400
Scientific-Atlanta, Inc.
5030 Sugarloaf Parkway
Lawrenceville, Georgia 30044 USA
Telephone: **770-236-1077**

Canada EMI Regulation

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

20090928 FCC Standard

Scientific Atlanta, A Cisco Company
5030 Sugarloaf Parkway
Box 465447
Lawrenceville, GA 30042

678.277.1000
www.scientific-atlanta.com

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User Guide Part Number 401365 Rev D