



# AT6420 AllTouch RF and IR Universal Remote Control

User Guide

## Welcome to the Ultimate **Control Experience**

Your new AT6420 AllTouch® Radio Frequency (RF) and 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

## 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

- You must program a HomeID before using this remote.
- · You must also program a Decoder ID if you are using multiple remotes per set-top.

## **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 mod 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 ecommended). Adiagram 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.

#### About HomeID

The set-top is equipped with an RF receiver. Programming the HomeID in the remote is necessary when RF is used to transmit signals to the set-top from the remote in order to limit interference with set-tops in other rooms or in your neighbors' homes. Go to the Program HomelD section of this guide for instructions.

Note: The remote uses IR signals when programming the HomeID and to control devices other than the set-ton

## **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

You must program a HomeID before using this

You must also program a Decoder ID if you are

The four mode kevs arched across the top of the

remote tell the remote which device you want to

QOWER (U)

Each mode key is associated with different types of

devices. You can use each mode key to control one

**Associated Devices** 

TVs (including HDTVs)

These keys can be reassigned to control different

devices. Go to the Reassign Mode Kevs section

There are red LEDs undemeath each of the four mode

kevs (STB, TV, DVD, and AUX) that flash each time

There are also green LEDs that illuminate several

kevs whenever the remote is in use. They stay

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

illuminated for a short time after a key is pressed.

VCRs receivers tuners and

Home Theater in a Box (HTIB)

IP gateway set-top

DVD players

of this quide for instructions

LED Indicators

currently controllina.

of its associated devices

STB

TV\*

DVD\*

AUX\*

using multiple remotes per set-top.

What Devices Can I Control?

**Quick Reference** 

#### 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 kev.
- 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 kevs and the mode kevs 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.

- · 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

## 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.

Lacenson (III)

If you program codes to control your devices, record

Brand

Sony

0 0

**(2)** 

0 0

**Device Program Codes** 

the codes here for easy reference.

Device Type

DVD

**Record Your HomelD Code Here:** 

Record Your Decoder ID Code Here:

Mode Key

Example

TV

DVD

AUX

DVD/VCR

-Viewina

Keys

T12120

Code

2066

## Note: Read the procedures in this section thoroughly before beginning. You need to be prepared to

Auto-Search Features

- Consider the following items when using Auto-
- · 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 kev), 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 kev.
- 2. Point the remote at the device
- 3. Press and while holding a selected mode key (TV or **DVD**), press the **OK** key. For example, to search for a TV code, press and hold **TV** and **OK** at the same
- 4. Release both keys and all the mode keys blink
- 5. Enter the programming code 9 2 2 by pressing the numeric keys on the remote. The mode key you selected in step 3 blinks twice to indicate a successful entry. 6 Point the remote toward the device, and press
- 7. 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.

**Device Control** 

functions

ŠT<sup>O</sup>

Ö

Turns devices on or off

Enables set-top mode functions

Enables TV mode functions

Enables DVD mode functions

Enables AUX mode functions

· In STB mode, these kevs control DVR and VOD

In DVD and AUX modes, these keys may control

Records the selected program

your DVD or VCR depending on how you have

Stops DVD, VCR, VOD, or DVR content

Pauses DVD, VCR, VOD, or DVR content

Scrolls through available TV or video input

Rewinds or fast forwards through

Plays DVD, VCR, VOD, or DVR content

Skips backward or forward through DVR or VOD content

Accesses the On Demand Menu

Accesses the DVR list of recordings

Returns to the previous screen

DVR, VOD, DVD, VCR Control

programmed the remote

DVR or VOD content

**Viewing and Browsing Control** 

Accesses the Main Menu

Enables interactive mode

#### · 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 6

- Step backward Press the rewind (RFW) key on. Exit without saving the code – Press the EXIT the remote to step back through the codes one at key on the remote. The selected mode key flashes three times and returns to normal a time. Then, return to step 6 operation
- · 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 6.
- Continue with auto-search function Press the PLAY key on the remote to continue with the autosearch function. Then, return to step 6.

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

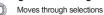
- 1. Turn on the device that you want to assign to the AUX key.
- 2. Point the remote at the device.
- 3. Press and while holding the AUX key, press the OK
- 4. Release both the AUX key and the OK key and all the mode keys blink twice.
- 5. Enter the programming code 9 2 2 by pressing the numeric keys 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:

2 = Receiver/Tuners 1 = VCRs 3 = Amplifiers

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.

# Viewing and Browsing Control











Displays text information about the selected program



Guide Displays or closes the IPG



Returns to last channel viewed



#### Sound Control

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



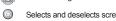
Mutes sound

**Numeric Keys** 

remote codes. Also use to enter your parental control PIN

# 

the picture for some high-definition television (HDTV) models



Clears all menu screens and returns to



Selects options in menus and the program guide

Selects the next channel, up or down, when watching TV. Moves up or down one pagein the IPG and in some menu



Enters channel numbers, text, and

Clears text and numbers in text fields Enters and saves (stores) an entry. Sizes

#### 8. To store your new HomelD code into the remote code, press the ENTER key on the remote again.

this procedure.

Step backward - Press the rewind (REW) key on

the remote to step back through the codes one at

· 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

· Continue with auto-search function - Press the

PLAY key on the remote to continue with the auto-

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.

1. Press and hold the STB mode key on the remote.

2. Without releasing the STB key, press and hold the

3. Release both the kevs and all mode kevs flash

4. Enter the programming code 9 4 4 by pressing the

5. Press and release the mode key associated with the

blinks twice indicating a successful entry.

numeric keys on the remote. The STB mode key

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

For example: To program the AUX key to operate

your DVD player, press DVD and then AUX.

Programming the HomeID in the remote is necessary

when radio frequency (RF) is used to transmit signals

The set-top is equipped with an RF receiver. When

using an RF remote, a HomeID is required for proper

communication between the RF remote and the set

top. After the appropriate assignment, the RF remote

The use of RF in the remote enables "through walls"

control of the set-top. It may be used to transmit

instructions from another room. The use of HomelD

also limits any interference with set-tops in other

All RF devices have the HomeID set to 000 by default.

Complete the following steps to set a new HomeID.

1 Ensure that the set-top is plugged into an electrical

2. Press and hold the **STB** mode key on the remote.

3. Without releasing the STB mode key, press and

4. Release both the STB mode key and the OK key.

5. Enter the 3-digit code 9 1 4 by pressing the number

6. Now enter your own choice of a 3-digit code from

You should see all the mode keys flash red two

times. This indicates that you are now ready to enter

keys on the remote. You should see the STB mode

key flash red two times. This indicates that you have

000 to 255 by pressing the number keys on the

remote. This will be your unique new HomeID code.

Be sure to record your HomelD in the space

• If a valid HomeID code is entered, the STB mode

(000 to 255). Go to step 7 of this procedure.

· If an invalid HomeID code is entered, the STB

mode key will display a long red flash. This indicates

that you have not entered a valid HomelD code

(000 to 255). The remote then returns to normal

operation. You will have to start over from step 1 of

7. Point the remote toward the set-top and then press

the ENTER key on the remote. The remote

transmits the HomelD code using IR. The red LED

will illuminate during transmission of the HomelD

key will flash red two times. This indicates that you

have successfully entered a valid HomelD code

outlet and that you have the remote in the same

will then be uniquely used for the assigned set-top.

device does not turn on, return to step 7.

search function. Then, return to step 7

Reassign Mode Keys

Reassigning Mode Keys

indicating a successful entry.

**Program HomelD** 

(Program Code 914)

to the set-top from the remote.

rooms or in your neighbors' homes.

room as the set-top.

hold the **OK** key.

the HomeID code.

successfully entered the code.

provided at the end of this section.

(Program Code 944)

OK kev.

twice.

a time. Then, return to step 7

- · If any other key is pressed except the number keys and the ENTER key, the remote will not accept any changes or updates. The STB mode key will display a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming the HomeID code, the remote will not accept any changes. You will have to start over from step 1 of this procedur

## **Program Decoder ID** (Program Code 912)

Programming the Decoder ID is necessary to identify each set-top box assigned to different rooms in the home or office. All RF devices have the Decoder ID set to 00 by default. Complete the following steps to

- 1. Ensure that the set-top is plugged into an electrical outlet and that you have the remote in the same room as the set-top.
- 2. Press and hold the STB mode key on the remote
- 3. Without releasing the STB mode key, press and hold the OK key.
- 4. Release both the STB mode key and the OK key. You should see all the mode keys flash red two times. This indicates that you are now ready to enter the Decoder ID code.
- 5. Enter the 3-digit code 9 1 2 by pressing the number keys on the remote. You should see the STB mode key flash red two times. This indicates that you have successfully entered the code.
- 6. Now enter your own Decoder ID choice of either 1, 2. or 3 by pressing the number keys on the remote. This will be your unique new Decoder ID code. Be sure to record your new Decoder ID in the space provided at the end of this section.

- · If a valid Decoder ID code is entered, the STB mode key will flash red three times. This indicates that you have successfully entered a valid Decoder ID code (1, 2, or 3). The new valid Decoder ID is stored into the EEPROM of the remote. The remote then returns to normal operation.
- · If an invalid Decoder ID code is entered, the STE mode key will display a long red flash. This indicates that you have not entered a valid Decoder ID code (1, 2, or 3). The remote then returns to normal operation. You will have to start over from step 1 of this procedure.

#### Notes:

- · If any key other than the required digit key and the on-display menu control keys are pressed during the Decoder ID programming, the STB mode key will display a long red flash and the remote will return to normal operation.
- If the remote times out before you complete programming the Decoder ID code, the remote will not accept any changes. You will have to start over from step 1 of this procedure.
- If you are unable to program a new Decoder ID, the previous Decoder ID is retained

# **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.

- 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

# **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  $\mbox{\bf STB}$  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 key 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
- 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

control the power switch on one device at a time, in

## **Change Power Control** The POWER key on the remote is set by default to

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.

# normal operation.

## **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.

- · 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

# 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. 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 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.

- · If any other key is pressed except the numeric keys, 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 the factory default reset procedure, the remote does not accept any changes. You must start over from

## **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

· 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

		· •	- MP	
1098				
1009,	1022, 1023			

Admiral	1009, 1022, 1023
Advent	1285, 1376, 1476, 1285, 1594
Adventura	1100
Aiko	1015
Aiwa	1034, 1098
Akai	1016, 1061, 1156, 1432, 1524, 1612
Alaron	1022
Alienware	1408
America Action	1036
AOC	1018, 1361, 1562, 1600, 1635
Apex Digital	1058, 1111, 1163, 1520
Audiovox	1036, 1135, 1455
Bang & Olufsen	1453
Belcor	1018
Bell & Howell	1001, 1043
BenQ	1041, 1136, 1545, 1557
Bradford	1036
Broksonic	1023, 1028, 1114, 1382
Brokwood	1018
Candle	1007, 1061, 1100, 1363

Akai	1016, 1061, 1156, 1432, 1524, 1612
Alaron	1022
Alienware	1408
America Action	1036
AOC	1018, 1361, 1562, 1600, 1635
Apex Digital	1058, 1111, 1163, 1520
Audiovox	1036, 1135, 1455
Bang & Olufsen	1453
Belcor	1018
Bell & Howell	1001, 1043
BenQ	1041, 1136, 1545, 1557
Bradford	1036
Broksonic	1023, 1028, 1114, 1382
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	1320, 1629, 1642
Curtis Mathes	1001, 1009, 1013, 1043, 1073, 1094, 1385
CXC	1036
Cytron	1232, 1456
Daewoo	1011, 1013, 1015, 1018, 1043, 1106, 1135 ,1508, 1524,
	1638
Daytron	1018
DiamondVision	1499, 1461
DirecTV	1374
Dumont	1018, 1020
Durabrand	1023, 1024, 1036, 1333, 1481
Dynex	1511, 1589, 1598, 1609
Electroband	1002
Electrohome	1023
Emerson	1011, 1020, 1022, 1023, 1028, 1031, 1033, 1036, 1044,
	1045, 1080, 1097, 1101, 1102, 1107, 1382, 1465

CIUWII	1011, 1030
Curtis	1320, 1629, 1642
Curtis Mathes	1001, 1009, 1013, 1043, 1073, 1094, 1385
CXC	1036
Cytron	1232, 1456
Daewoo	1011, 1013, 1015, 1018, 1043, 1106, 1135 ,1508, 1524, 1638
Daytron	1018
DiamondVision	1499, 1461
DirecTV	1374
Dumont	1018, 1020
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Sony	4009, 4010, 4022, 4023, 4024, 4031, 4032, 4034, 4043, 4044, 4045, 4046, 4048	2113, 2108, 2225, 2226, 2278, 2288, 2296, 2305, 2306, 2307, 2315	
Toshiba	4025, 4040	2227	
Venturer	4011	2011	
Yamaha	4054	2389	
Zenith	4037		

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Aiwa	5000, 5001, 5002, 5004, 5005, 5006, 5034, 5143
Akai	5083
Audiotronic	5145
Audiovox	5152
Bang & Olufsen	5151
Bose	5007
Capetronic	5144
Carver	5000, 5143 ,5145
Denon	5008, 5035, 5036, 5037, 5038, 5039, 5040, 5041, 5042, 5043, 5044, 5045, 5046, 5047, 5048, 5049, 5050, 5051, 5052, 5053, 5054, 5114, 5124
Eclipse	5149

Gradiente	5153	
Harman Kardon	5000, 5009, 5055, 5056, 5142, 5143	
JBL	5009	
JVC	5010, 5057, 5058, 5059, 5116	
Kenwood	5011, 5012, 5013, 5060, 5061, 5062, 5063, 5064, 5065, 5066, 5067, 5068, 5123, 5127, 5128, 5132, 5148	
Linn	5000, 5143	
Magnavox	5000, 5143, 5144, 5145	
Marantz	5000, 5069, 5143, 5145	
Mitsubishi	5070, 5071, 5072	
Onkyo	5018, 5073, 5074, 5075, 5076, 5077, 5078, 5079, 5080, 5081, 5082, 5084, 5085, 5086, 5087, 5130, 5131, 5140	
Optimus	5144	
Panasonic	5019, 5020, 5107, 5108, 5109, 5110, 5111, 5115, 5126	
Philips	5000, 5112, 5138, 5143, 5145, 5154	
Pioneer	5021, 5022, 5088, 5089, 5090, 5091, 5092, 5093, 5094, 5119, 5120, 5144, 5147	
Polaroid	5141	
Polk Audio	5143	
RCA	5024, 5025, 5026, 5137, 5144	
Rotel	5150	
Samsung	5139	
Sansui	5000, 5143	
Sherwood	5027	
Sony	5017, 5023, 5028, 5029, 5030, 5031, 5032, 5033, 5095, 5096, 5097, 5113, 5117, 5121, 5125, 5129, 5133, 5134, 5136, 5146	
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BL	6050
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olk Audio	6047
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Aiwa	5000, 5001, 5002, 5004, 5005, 5006, 5034, 5143
Akai	5083
Audiotronic	5145
Audiovox	5152
Bang & Olufsen	5151
Bose	5007
Capetronic	5144
Carver	5000, 5143 ,5145
Denon	5008, 5035, 5036, 5037, 5038, 5039, 5040, 5041, 5042 5043, 5044, 5045, 5046, 5047, 5048, 5049, 5050, 505 5052, 5053, 5054, 5114, 5124
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Gradiente	5153
larman Kardon	5000, 5009, 5055, 5056, 5142, 5143
BL	5009
VC	5010, 5057, 5058, 5059, 5116
Kenwood	5011, 5012, 5013, 5060, 5061, 5062, 5063, 5064, 5065, 5066, 5067, 5068, 5123, 5127, 5128, 5132, 5148
inn	5000, 5143
Magnavox	5000, 5143, 5144, 5145
Marantz	5000, 5069, 5143, 5145
/litsubishi	5070, 5071, 5072
Onkyo	5018, 5073, 5074, 5075, 5076, 5077, 5078, 5079, 5080, 5081, 5082, 5084, 5085, 5086, 5087, 5130, 5131, 5140
Optimus	5144
Panasonic	5019, 5020, 5107, 5108, 5109, 5110, 5111, 5115, 5126
hilips	5000, 5112, 5138, 5143, 5145, 5154
Pioneer	5021, 5022, 5088, 5089, 5090, 5091, 5092, 5093, 5094, 5119, 5120, 5144, 5147
Polaroid	5141
Polk Audio	5143
RCA	5024, 5025, 5026, 5137, 5144
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Samsung	5139
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Sony	5017, 5023, 5028, 5029, 5030, 5031, 5032, 5033, 5095, 5096, 5097, 5113, 5117, 5121, 5125, 5129, 5133, 5134, 5136, 5146
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	Akai	3003, 3055, 3058	Symphonic	3002, 3021
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	Daewoo	3011, 3013, 3021, 3076, 3120, 3150	Viewsonic	3223
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	Dell	3223	Wards	3001, 3011, 3016, 3021, 3023, 3047, 3052
	Dimensia	3000	Westinghouse	3002
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3004, 3006, 3055, 3060, 3202, 3211, 3213

3007, 3016, 3029, 3030, 3052, 321 3001, 3013, 3023, 3047, 3080, 3100, 3137, 3163, 3164, 3176, 3177, 3200

3007, 3070, 3201

199, 3201, 3203, 3206, 3212, 3243, 3249, 3250

3016, 3062, 3091, 3092, 3212

3006, 3060

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

3193, 3221 3117, 3169 3239 3232, 3067, 3118, 3170, 3194, 3361, 3171, 3228, 3229, 3230, 3366, 3231, 3234, 3235, 3236, 3237
3242 3076 3083 2230, 3066, 3110, 3109, 3188, 3193, 3221 3117, 3169 2232, 3067, 3118, 3170, 3194, 3239 2232, 3067, 3118, 3170, 3194, 3261, 3271, 3284, 3229, 3230, 3231, 3234, 3235, 3236, 3237
3076 3083 3083, 3086, 3110, 3109, 3188, 3193, 3221 3117, 3169 3239 3239 3239 3239, 3239, 3230, 3230, 3231, 3234, 3235, 3236, 3231, 3234, 3235, 3236, 3237, 3234, 3235, 3236,
3083 3086, 3110, 3109, 3188, 3193, 3221 3117, 3169 3239 2232, 3067, 3118, 3170, 3194, 3361, 3171, 3228, 3229, 3230, 3231, 3234, 3235, 3236, 3237
2230, 3066, 3110, 3109, 3188, 3193, 3221 3117, 3169 3239 2232, 3067, 3118, 3170, 3194, 3361, 3171, 3228, 3229, 3230, 3231, 3234, 3235, 3236, 3237, 3234, 3235, 3236, 3237
3193, 3221 3117, 3169 3239 3232, 3067, 3118, 3170, 3194, 3361, 3171, 3228, 3229, 3230, 3366, 3231, 3234, 3235, 3236, 3237
3239 2232, 3067, 3118, 3170, 3194, 2361, 3171, 3228, 3229, 3230, 2366, 3231, 3234, 3235, 3236, 3237
2232, 3067, 3118, 3170, 3194, 361, 3171, 3228, 3229, 3230, 366, 3231, 3234, 3235, 3236, 3237
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3078, 3172, 3191
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3070
3176, 3177
238, 3104, 3085, 3179, 3187, 356, 3192, 3178, 3224, 3225,
356, 3192, 3178, 3224, 3225, 3226, 3240

#### TV/DVD Combo

ai	1427	2378
ex	1163	2095
ion	1459	2379
ing & Olufsen	1453	2370
oksonic	1114	2053
bby	1460	2380
tron	1456	2374
amondVision	1461	2382
nerson	1150, 1465, 1595	2202, 2213, 2260
ınai	1595	2213
aier	1581	2506
nerson	1150, 1465, 1595	2202, 2213, 2260
achi	1226	2240
	1457	2375
tial	1457	2381
С	1288	2206

LG	1255	2371
Magnavox	1457, 1516, 1595	2213, 2375, 2503
Mintek	1457	2381
Panasonic	1289	2207
Philips	1290, 1291, 1337	2208, 2209, 2243
Polaroid	1458, 1440	2377, 2409
RCA	1115, 1162, 1379	2063, 2099, 2289
Sansui	1122	2071
Sharp	1138	2292
Sylvania	1150, 1464	2092, 2408
Toshiba	1116, 1293, 1294, 1345	2054, 2210, 2231
Westinghouse	1454	2372

## TV/VCR Combo

merica Action	1036	3081
roksonic	1121, 1382, 1383	3081, 3213, 3202
Curtis Mathes	1385	3081
aewoo	1298	3150
merson	1382, 1383	3213, 3202
unai	1090	3100
iE.	1164, 1380, 1381	3090, 3201, 3203
litachi	1090	3021
VC	1299	3151
loyd's	1090	3021
lagnavox	1300, 1301, 1302, 1321	3152, 3153, 3154, 3181
/lagnin	1380	3201
IGA	1380	3201
litsubishi	1381	3203
ptimus	1245, 1165, 1305	3002, 2053, 3091
rion	1382, 1383	3213, 3202
anasonic	1305, 1306	3158, 3159
enney	1380	3201
hilips	1307, 1308	3160, 3152
uasar	1165, 1166	3091, 3092
CA	1167, 1168, 1310, 1380, 1381	3093, 3094, 3162, 3201 3203
amsung	1161	3089
ansui	1382, 1383	3213, 3202
anyo	1380	3201
narp	1311, 1312	3163, 3164
/Ivania	1145	3095
shiba	1006, 1267, 1313, 1315,	3096, 3168, 3165, 3166,
	1319	3167, 3182
enith	1118, 1382, 1383	3097, 3213, 3202

#### TV/DVD/VCR Combo

amond Vision	1499	2280	3038
nerson	1027	2064	3088
SA.	1027	2064	3088
agnavox	1339	2241	3183
ınasonic	1123, 1152	2075, 2076	3087, 3086
CA	1151	2077	3106
imsung	1297	2214	3148
arp	1153, 1378	2086, 2292	3100, 3200
Ivania	1027, 1124,	2064, 2078,	3105, 3088,
	1296	2213	3147
shiba	1154, 1158,	2093, 2094	3099, 3098,

## **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, if not installed equipment generates, uses, and can radiate radio requercy energy, in not insured and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will no occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipmen OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- are of the following measures: Repoint 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 calle company or an experienced radiofelevision technician for

rep., 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 approval of this device. The phone numbers island are for FCC-related

questions only and not intended for questions regarding the connection or operation for this device. Please contact your cable service provider for any questions you may have preparing the nonestion or installation of this device.

Scientific-Atlanta, Inc. 5030 Sugarloaf Parkway Lawrenceville, Georgia 30044 Telephone: **770-236-107** 

## **Canada EMI Regulation**

20060628 FCC Standard



Scienti □c Atlanta, A Cisco Company 5030 Sugarloaf Parkway Box 465447 Lawrenceville, GA 30042

678.277.1000

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User Guide Part Number 4013050 Rev D