

Explorer[®] 3270HD[™]

High-Definition Digital Interactive Set-Top User's Guide



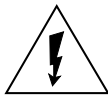
exploring the
full potential
of (television)[™]



IMPORTANT RULES FOR SAFE OPERATION

Note to CATV System Installer (USA/Canada Only)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC (Section 54, Part I of the Canadian Electrical Code), that provides guidelines for proper grounding and, in particular, specifies that the CATV cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



This symbol is intended to alert you that uninsulated voltage within this product may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this product.



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

WARNING
TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.




This symbol is intended to alert you of the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

Read and Retain These Instructions

- Read all of the instructions before you operate this set-top. Give particular attention to all safety precautions. Retain the instructions for future reference.
- Comply with all warning and caution statements in the instructions. Observe all warning and caution symbols that are affixed to this set-top.
- Comply with all instructions that accompany this set-top.

Placement

Place this set-top in a location that is close enough to an electrical outlet to accommodate the length of the power cord. Place this set-top on a stable surface. The surface must support the size and weight of this set-top.

 **WARNING:**
Avoid personal injury and damage to this set-top. An unstable surface may cause this set-top to fall.


Ventilation

This set-top has openings for ventilation that protect it from overheating. To ensure the reliability of this set-top, follow these guidelines to avoid obstructing the openings:

- Do not place other equipment, lamps, books, or any other object on the top of this set-top.
- Do not place this set-top in any of the following locations:
 - On a bed, sofa, rug, or similar surface
 - Over a radiator or a heat register
 - In an enclosure, such as a bookcase or equipment rack, unless the installation provides proper ventilation

Cleaning the Set-Top

Before cleaning this set-top, unplug it from the electrical outlet. Use a damp cloth to clean this set-top. Do not use a liquid cleaner or an aerosol cleaner.

 **CAUTION:**
Magnetic or static cleaning devices (dust removers) can cause damage to your set-top. Do not use a magnetic or static duster to clean this device.

Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Do not expose this set-top to liquid or moisture. Do not place this set-top on a wet surface. Do not spill liquids on or near this set-top.

Accessories

Do not use accessories with this set-top unless recommended by Scientific-Atlanta.

Overloading

Do not overload electrical outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock. For equipment that requires battery power or other sources to operate, refer to the operating instructions for that equipment.

Lightning and Power Surges

Ground (earth) your cable system to provide some protection against voltage surges and built-up static charges. Plug your set-top into a surge protector to reduce the risk of damage from lightning strikes and power surges. If you have questions, call your cable service provider.

Power Cord Protection

Arrange all power cords so that people cannot walk on the cords, place objects on the cords, or place objects against the cords, which can damage the cords. Give particular attention to the cords at the point at which the cord connects to the plug, at electrical outlets, and at the places where the cords exit the set-top.

Power Sources

A label on this set-top indicates the correct power source for this set-top. Operate this set-top only from an electrical outlet that has the voltage and frequency that the label indicates.

If you are unsure of the type of power supply to your residence, consult your cable service provider or your local power company.

Grounding

This set-top has a two-prong plug. Properly ground (earth) this set-top by inserting the plug into a grounded electrical, two-socket outlet. If this plug is polarized, it has one wide prong and one narrow prong. This plug fits only one way.



CAUTION:
To prevent electric shock, match wide blade of plug to the wide slot, and then fully insert.

If you are unable to insert this plug fully into the outlet, contact an electrician to replace your obsolete outlet.

Servicing

Do not open the cover of this set-top. If you open the cover, your warranty will be void. Refer all servicing to qualified personnel only.

Damage that Requires Service

For damage that requires service, unplug this set-top from the electrical outlet. Refer to the "Limited Warranty" at the end of this guide if your set-top does not operate when plugged into your electrical outlet and connected to the cable television outlet.

Screen Burn-In Warning



WARNING:
Be careful not to display the same fixed images on your HDTV screen for extended periods of time. These images, such as letterbox bars or side bars, bright closed captioning backgrounds, station logos, or any other stationary images may cause the picture tubes in your HDTV to age unevenly and cause damage to your HDTV. Refer to the user's guide that came with your HDTV for more information.

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Welcome!

Congratulations! You are now the owner of one of the most advanced set-top boxes on the market. Scientific-Atlanta's Explorer® 3270HD™ Set-Top represents the latest in technical innovation allowing you the ability to view cable television programming for high-definition television (HDTV) as well as standard-definition television (SDTV), in both analog and digital formats. The Explorer 3270HD Set-Top also provides you with the ability to experience the latest television offerings including video-on-demand (VOD), if available from your cable service provider. Just ask your cable service provider if these exciting services are available in your area.

In addition, your 3270HD Set-Top offers the following features:

- an on-screen program guide, which lets you browse programming information by program title, time, or theme
- enhanced Parental Control features, which let you restrict programming based on rating, channel, time, or individual programs
- the VCR Commander Service™, which lets you easily set your VCR to record a program that you are watching

To start enjoying your advanced television picture, first read the important information contained in this user's guide. It is filled with information that will allow you to enjoy your Explorer 3270HD Set-Top immediately.

Once you've read the user's guide and connected your Explorer 3270 Set-Top, call your cable service provider. To activate your service, you must provide them with the serial number of your set-top. You can locate this number on the back of your set-top, or on the outside carton label. This number is very important so jot it down with the other information requested on page 7.

Contents

What's In The Carton?

The Explorer 3270HD Set-Top carton contains the following items:



- Explorer 3270HD Set-Top



- 10-ft YPbPr (component video) cable



- 10-ft audio/video cable



- 10-ft audio cable



- power cord



- AllTouch® 2400 Remote Control, including batteries



- IR Blaster, for use with the VCR Commander™ Service*



- user's guide



- warranty card

*Contact your cable service provider to see if this service is available in your area.

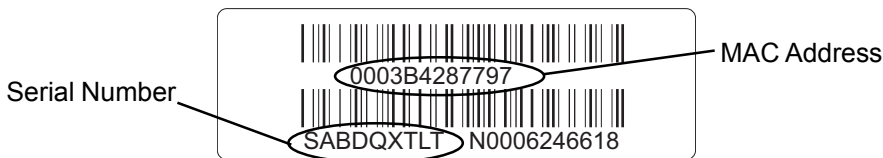
Where's the Serial Number and MAC Address?

Your serial number and MAC address are located on a label on the back of your set-top. You must know your serial number in order to receive digital cable services. In addition, Scientific-Atlanta may need to know your serial number to provide technical assistance.

Use the space provided here to record your set-top serial number and MAC address:

Serial Number: _____

MAC Address: _____



What Are My Device Codes?

Your IR Blaster and your remote control use codes to operate various other devices, such as a TV, VCR, or DVD player. After you program these codes (later in this guide), you should record the codes here for future reference.

VCR Commander Service code: _____

Remote Control codes:

AUX: _____ VCR: _____

TV: _____ CBL: _____

Who Do I Call To Set Up My Service?

When you connect your set-top to your HDTV, you must contact your cable service provider and ask them to turn on cable services for your set-top. In addition, you may need to contact your cable service provider for troubleshooting or other

issues. Record the phone number for your cable service provider here:

If you believe that your equipment needs repair or replacement, contact Scientific-Atlanta at 1-866-212-2141.

What Is The Explorer eClub?

The Explorer eClub is an online club that provides news and "what's up" information about the Explorer 3270HD Set-Top and offers you a chance to win prizes.

To join the Explorer eClub, you must know the serial number of your set-top. You can access the Explorer eClub on the Internet at the following web address:
www.scientificatlanta.com/explorerclub

Before You Begin

- Read the IMPORTANT RULES FOR SAFE OPERATION section of this guide.
- Locate the serial number for your set-top, which is on a bar code on the back panel of the set-top. You will need this serial number to activate service with your cable service provider and to join the Explorer eClub. Also, if your system requires troubleshooting in the future, your cable service provider or Scientific-Atlanta may ask for the serial number.
- If you plug the set-top into an outlet that is controlled by a wall switch, keep the switch in the ON position. The on-screen guide is updated nightly. If the wall switch is in the OFF position, your set-top will not receive the latest programming updates.
- Keep the top of the set-top free of all objects and electronic devices, including your TV.
- It is recommended that you connect a surge protector to your cable equipment and electronic devices.

Installing Batteries In Your Remote

Your universal remote control (“remote”) is configured from the factory to control your set-top. In addition, you can program your remote to control most TV and VCR models, as well as various additional devices.

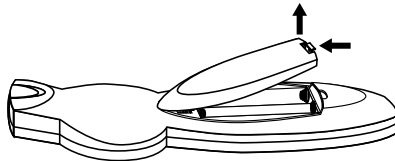
Your remote requires two AA batteries (included). Alkaline batteries are recommended. Use the following procedure to install the batteries.



CAUTION:

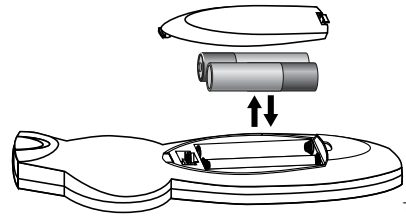
Make sure you correctly align the positive (+) and negative (-) terminals on the batteries to the corresponding terminals in the remote control.

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.



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



T6435

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

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

Frequently Asked Questions About HDTV

Are Local TV Stations Broadcasting in HDTV?

Many local stations are transmitting digital signals. However, transmitting a digital signal does not mean transmitting an HDTV signal. Some stations are using the new bandwidth to broadcast several

standard-definition channels. Most stations, however, once they begin broadcasting in digital, are offering HD content from their parent station, that is, CBS, ABC, NBC, Fox, WB, UPN, or PBS.

Aspect Ratio? Resolution? What Does All That Mean?

The *aspect ratio* of a television screen is the ratio of its width to its height. The standard television screen is 4 units wide for every 3 units tall, so its aspect ratio is 4 x 3 or 4:3.

However, many HDTVs have an aspect ratio of 16:9 (meaning that the screen is 16 units wide for every 9 units tall).

The *resolution* of an HDTV screen indicates the amount of detail that the screen can display. This resolution is identified by the number of display lines on the screen. For example, 1080i means that the screen shows 1080 lines in interlaced format, and 480p means that the screen shows 480 lines in progressive format.

Progressive and *interlaced* format describe the technique that your HDTV uses to “paint” the picture on the screen. Interlaced format updates half of the lines on the screen with every new video frame. In one frame, an interlaced screen will update all of the odd-numbered lines on the screen. In the next frame, it updates all of the even-numbered lines.

By contrast, progressive format updates each line on the screen every time the frame changes.

Your set-top can display the following formats:

- 1080 lines, interlaced (1080i)
- 720 lines, progressive (720p)
- 480 lines, progressive (480p)
- 480 lines, interlaced (480i)



**Standard Screen HDTV
(4:3 Aspect Ratio)**



**Wide Screen HDTV
(16:9 Aspect Ratio)**

Why are some HDTVs 4:3 Aspect Ratio and Others are 16:9?

The aspect ratios differ because the television industry manufactures both standard and wide-screen HDTVs, to appeal to consumer viewing preferences.

Wide-screen TVs differ in the way that they display standard-screen programming. You can view the program in “pillarbox” format (surrounded by blank bars), or you can stretch or zoom the picture to fill your HDTV screen.

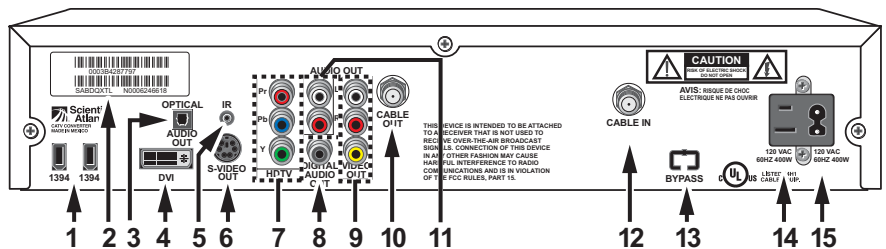
Your set-top allows you to choose the way you want to view standard-width programming on your wide-screen TV. See **Selecting Your Picture Size and Format** on page 18.



What are the Differences Between Standard TVs and HDTVs?

- An HDTV is 1/3 wider than a traditional TV. The HDTV aspect ratio is usually 16:9 (compared to 4:3 for SDTV).
- HDTV uses a much finer resolution to create the TV picture—up to 1125 lines for HDTV, as compared with 525 lines used in SDTV. This means that the resolution for HDTV can be up to 1920x1080 pixels, as compared with 720x480 pixels for SDTV.
- In the USA, HDTV is always broadcast with digital signals. SDTV is currently broadcast in both digital and analog. (However, HDTV and digital SDTV do not use the same digital signal.)
- Generally, all HDTV-ready monitors or integrated HDTV sets are capable of supporting an SDTV 480i or 480p signal. Not all HDTV monitors support both 720p and 1080i HDTV signals. For instance, some plasma displays only support 720p.

Back Panel Connectors



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- 1 Connect to a 1394-equipped HDTV or consumer peripheral. Contact your cable service provider to determine if this port is supported in your area.
- 2 Record your serial number and MAC address shown from this label on page 7 of this guide for future reference.
- 3 Connect an optical cable to send a digital audio signal to a surround-sound receiver or other digital audio device.
- 4 Connect to the DVI input port on your HDTV. Contact your cable service provider to determine if this port is supported in your area.
- 5 Attach the IR Blaster cable to use with the optional VCR Commander™ Service. See **Setting Up the VCR Commander Service** on page 37.
- 6 Connect an S-Video cable to send an S-Video signal to your TV or VCR. This signal is SDTV but higher-quality than other SDTV connections.
- 7 Connect the HDTV (Y, Pb, and Pr) component output ports to the HDTV input on your HDTV. You must use these ports to provide HDTV signals to your HDTV.
- 8 Connect an RCA cable to send a digital audio signal to a surround-sound receiver or other digital audio device.
- 9 Connect an RCA cable to Video Out and Left/Right Audio Out to send analog video and audio signals to a standard TV or VCR. This signal is SDTV.
- 10 Connect a coaxial cable to Cable Out to send analog audio and video signals to a TV or VCR. These signals are SDTV video with mono audio.
- 11 Connect RCA cables to Audio Out to send analog audio signals (left and right) to a stereo receiver or a TV with stereo inputs.
- 12 Connect the coaxial cable that delivers the signal from your cable service provider.
- 13 Connect an optional RF Bypass module to your set-top. This module allows you to view one channel while recording another. Contact your cable service provider to see if this service is available.
- 14 Connect the power cord for another device to deliver power to that device.
- 15 Connect the power cord provided to deliver power to the set-top.

Connecting the Explorer 3270HD Set-Top

Now that you've unpacked the Explorer 3270HD Set-Top from its carton, you're ready to connect it to your HDTV and other electronic devices. The diagrams on the following pages show examples of common ways to connect your set-top to your HDTV, VCR, and home theater receiver.

However, these diagrams do not show every possible combination of devices. Please consult the user's guides that came with your other devices for further information.

Some of the cables shown in the diagrams may not be included with your Explorer Set-Top.

To Connect The Set-Top

Be sure to follow all of these steps. If you do not do so, your set-top will not be authorized to receive digital services.



WARNING:
Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables.

1. Unplug all electronic devices before connecting the set-top.
2. Connect the set-top to your HDTV, VCR, and other devices as shown in the diagrams on pages 15 through 17. These diagrams do not cover every possible wiring combination.

Important:

- These cables are color-coded. Make sure that you connect them to the proper ports on each device.
 - Make note of the video input on the set-top where you connected the YPbPr cables. (For example, Component 1.) You will need to know this port when you use the Setup Wizard, later in this guide.
3. Plug the set-top and the HDTV into an AC power source, but do not turn on your set-top or HDTV yet.

4. Contact your cable service provider and ask them to turn on cable services for your set-top. Be prepared to give them the serial number from the back panel of your set-top. You should have written this number down on page 7 of this guide.

Note: If you do not contact your cable service provider, your set-top will not be able to receive some or all of the available services.

5. Wait for the front of your set-top to display one of the following:
 - Current time
 - Four dashes (- - - -)

Important: It may take several minutes for the set-top to receive the latest software, programming, and service information. When the front panel displays the time or four dashes, the update is complete.

6. After the update is complete, press **POWER** to turn on your set-top.
7. Turn on the power to your HDTV.
8. Your next step is to use the Setup Wizard to select your picture size and format. Go to **Selecting Your Picture Size and Format** on page 18.

What If My HDTV Doesn't Have YPbPr Inputs?

Most HDTVs include YPbPr connectors for component video inputs, and your Explorer 3270HD Set-Top includes a YPbPr cable for these inputs.

If your HDTV has only RGB inputs, you need a connection converter. Check with

the store where you purchased your set-top, or order one from www.sciatl.com.

Your set-top will *not* display an HDTV signal correctly on an SDTV, even if the TV includes YPbPr inputs.

How Do I Set Up Stereo Sound?

To hear stereo sound, you must do one of the following:

- Connect audio cables from the AUDIO OUT LEFT and RIGHT connectors on the set-top to the AUDIO IN LEFT and RIGHT connectors on your HDTV, stereo receiver, or home theater.
- Connect an RCA cable from the DIGITAL AUDIO OUT on your set-top to the DIGITAL AUDIO IN on your HDTV (if equipped), stereo receiver, or home theater.

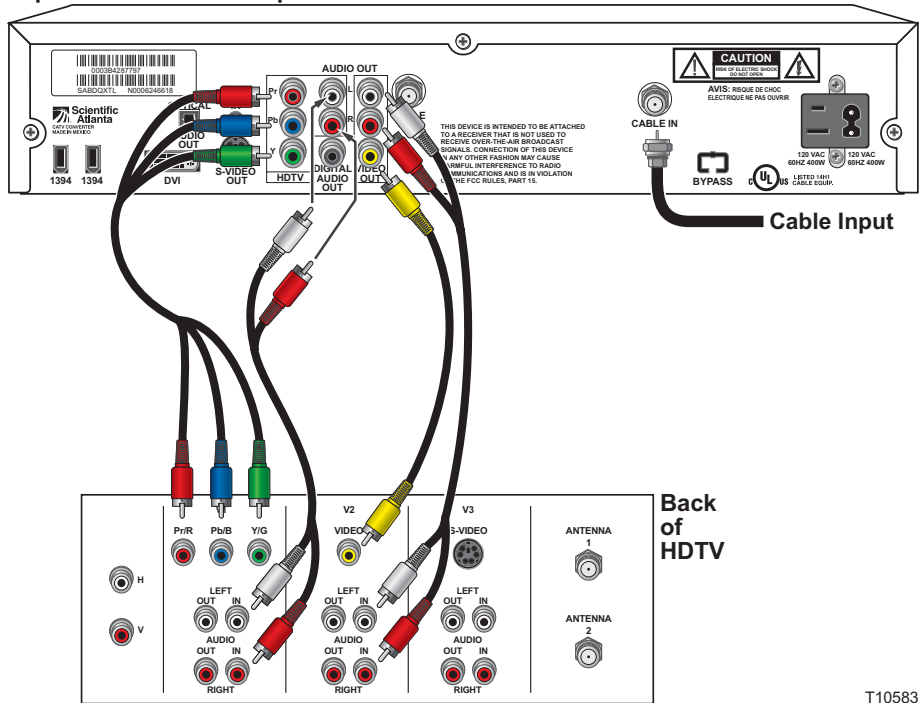
In addition, you may also connect an S-Video cable from the S-VIDEO OUT connector on the set-top to the S-VIDEO connector on the HDTV or VCR. However, the S-Video connection does not supply audio. You must also use audio cables with the S-Video cable.

If you connect the set-top to your HDTV using only the coaxial cable at the CABLE OUT connection, your HDTV will not receive stereo sound from your set-top.

Note: S-Video and coaxial cables only deliver SDTV programming. They do not deliver HDTV programming.

To Connect the Set-Top to an HDTV Using YPbPr Cables and SDTV Video Cables

Explorer 3270HD Set-Top

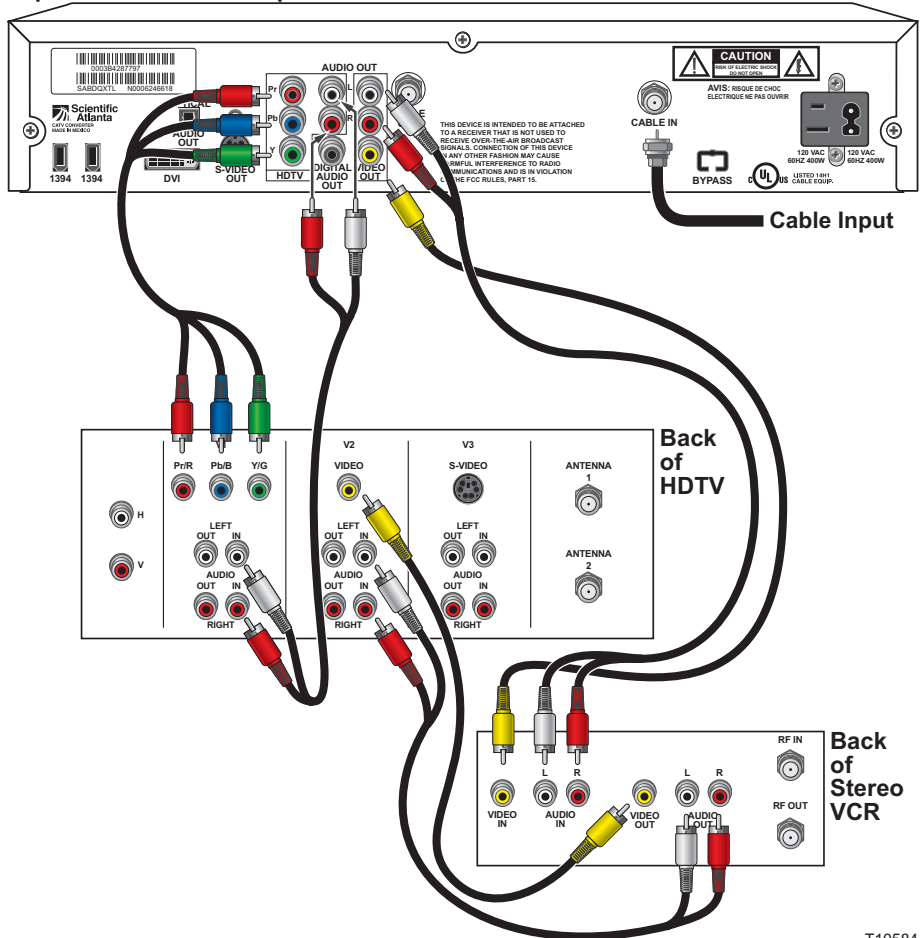


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To Connect the Set-Top to an HDTV and VCR

Standard VCRs can record and play back SDTV programming, but they cannot record HDTV content.

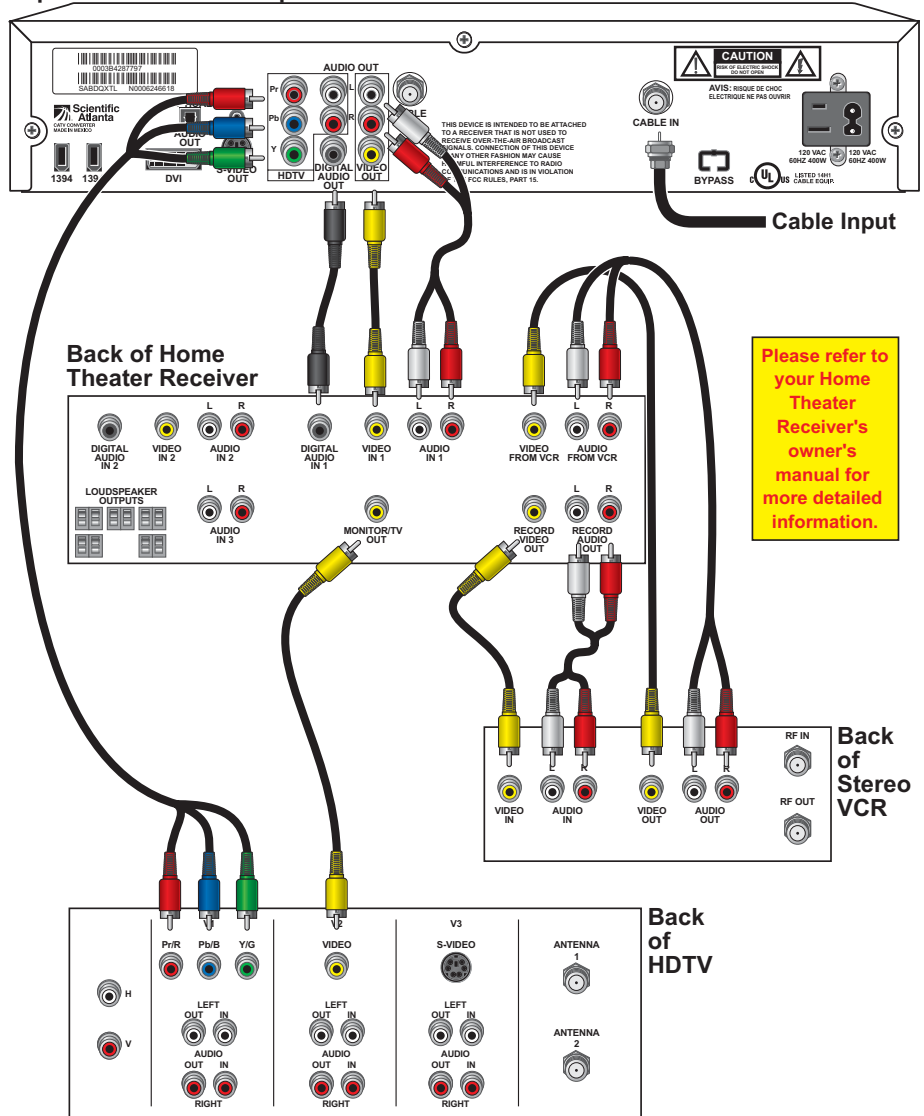
Explorer 3270HD Set-Top



T10584

To Connect the Set-Top to an HDTV, VCR and Home Theater Receiver

Explorer 3270HD Set-Top



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Selecting Your Picture Size and Format

One main difference between SDTV and HDTV is the width of the screen. HDTVs usually have a wider *aspect ratio* than SDTVs.




The aspect ratio of a television screen is the ratio of its width to its height. The standard television screen is 4 units wide for every 3 units tall, so its aspect ratio is 4 x 3 or 4:3.

However, many HDTVs have an aspect ratio of 16:9 (meaning that the screen is 16 units wide for every 9 units tall).

In addition, HDTVs can display a higher resolution than SDTVs. This resolution is identified by the number of display lines on the screen. For example, 1080i means that the screen shows 1080 lines in interlaced

format. 480p means that the screen shows 480 lines, progressive format.

Your 3270HD can accept programming in many different formats (aspect ratio and resolution) and convert them into the format that looks best on your HDTV. The Explorer HDTV Setup Wizard helps you select the formats that will be available to you.

- Throughout these instructions, use the remote control arrow keys (◀, ▶, ▲, ▼) and , ,  keys to navigate through the menus and options, unless indicated otherwise.
- You may want to have available the User manual that came with your HDTV for reference.



**Standard Screen HDTV
(4:3 Aspect Ratio)**




**Wide Screen HDTV
(16:9 Aspect Ratio)**


What if I Don't See Anything?

Your set-top can provide video to your HDTV in several different screen resolutions:

- 1080 lines, interlaced (1080i)
- 720 lines, progressive (720p)
- 480 lines, progressive (480p)
- 480 lines, interlaced (480i)

Your set-top provides 1080i resolution by default. If you only see a black screen when you turn on your set-top and HDTV, your HDTV may not support 1080i. Follow these steps to choose another resolution that your HDTV supports:

1. Turn on the set-top.
2. Press and hold  on the front of the set-top until the message light blinks (about three seconds).

3. Release  when the message light blinks.
4. Press **VOL -**. The front panel displays HdSr.
5. Press one of the following keys to select a different resolution:
 - Press **Ch+** to set 480i resolution.
 - Press **Ch-** to set 480p resolution.
 - Press **Vol-** to set 720p resolution.
 - Press **Vol+** to set 1080i resolution.

The front panel displays the resolution you selected, followed by SEt. You have now set the resolution for your set-top, and you should be able to view programming on your HDTV.

Choosing Your Video Input

1. Verify the set-top is plugged in and turned ON.
2. Turn ON the HDTV.
3. Press the **INPUT** or **TV/VIDEO** key on the HDTV remote or on the HDTV and scroll to the video input you chose for the connection. For example: Component 1.
4. Your next step is to select the default picture format for your HDTV.
 - If your HDTV has a 4:3 aspect ratio, go to **Selecting Your Picture Format for a 4:3 Screen**.
 - If your HDTV has a 16:9 aspect ratio, go to **Selecting Your Picture Format for a 16:9 Screen**.

Selecting Your Picture Format for a 4:3 Screen

Use these steps if your HDTV has an aspect ratio of 4:3.

1. Turn off the set-top.
2. Press the **INFO** and **GUIDE** keys on the front panel of the set-top simultaneously to access the Setup Wizard through the set-top.
3. Press **A** when you see “This is the Y, Pb, Pr output...” on the Output Selection Screen to identify the set-top/HDTV connection.
4. Press **A** when you see “If your TV has a standard 4:3 screen...” on the screen to identify the screen size.

5. Choose one of the following options to set the picture format:

- Press **B**, and then press Exit to end the setup. This is the recommended setting for a 4:3 screen. Notice that the example fills the entire screen. The screen shows the saved settings.
- Or, press **C** to choose a custom setup. This option provides more customizing options and is intended for more advanced users.

If you selected **B**, you are ready to turn on the set-top and start watching TV. If you selected **C**, see **Selecting a Custom Picture Format** on page 20.

Selecting Your Picture Format for a 16:9 Screen

Use these steps if your HDTV has an aspect ratio of 16:9.

1. Turn off the set-top.
2. Press the **INFO** and **GUIDE** keys on the front panel of the set-top simultaneously to access the Setup Wizard through the set-top.
3. Press **A** when you see “This is the Y, Pb, Pr output...” on the Output Selection Screen to identify the set-top/HDTV connection.
4. Press **B** when you see “If your TV has a 16:9 screen...” on the screen to identify the screen size.

5. Choose one of the following options to set the picture format:

- Press **A**. This is the recommended setting for a 16:9 screen.
- Or press **C** to choose a custom setup. This selection provides more customizing options and is intended for more advanced users.

If you selected **A**, you are ready to turn on the set-top and start watching TV. If you selected **C**, see **Selecting a Custom Picture Format** on page 20.

Selecting a Custom Picture Format

If you chose option C, the Wizard offers options for you to select the best picture format and size for viewing programs on your HDTV.

1. Press **A** to acknowledge that the HDTV monitor is in Normal display mode.
2. Press **A** to start the Picture Scan setup.
3. Press **A** to cycle through the picture format options. Follow the Setup Wizard directions to save the format that looks best on your HDTV. If your HDTV does not support one of the format options, you will see a black screen.
4. After you cycle through all of the picture options, press **EXIT** twice and then press **POWER**. The set-top turns on, and you are ready to watch TV.

View HD and Non-HD Channels on a 4:3 Screen

Some channels are high definition (HD) and some are not. To maximize viewing of non-HD channels, you can toggle between an HD scan rate (either 1080i or 720p) and a standard definition scan rate (either 480i or 480p).

1. Press **SETTINGS** to access the Quick Settings menu.
2. Scroll to **Picture Format**.
3. Press **◀** or **▶** to view the scan rates selected during the setup process. Then, select the picture format of your choice.



**Either 480i or 480p
fills the screen**

View HD and Non-HD Channels on a 16:9 Screen

Some channels are high definition (HD) and some are not. To optimize viewing of non-HD channels, you can stretch or zoom the size of the picture through the set-top.

Press CBL once on your remote, and then use the # key to toggle between Normal, Stretch, and Zoom settings.



Change Border Color

Tune to an HD channel, then to a non-HD channel. On some channels, the setup may be displaying a border either on the right and left sides of the screen, or on the top and bottom of the screen.

1. Press **SETTINGS** twice to access the General Settings menu.
2. Scroll to **Set:TV Borders**.
3. Press **▶** to access the Light, Med, and Dark options.
4. Scroll through the options and select the border color of your choice.
5. Press **▲** to accept the changes.



WARNING:

Be careful not to display the same fixed images on your HDTV screen for extended periods of time. These images, such as letterbox bars or side bars, bright closed captioning backgrounds, station logos, or any other stationary images may cause the picture tubes in your HDTV to age unevenly and cause damage to your HDTV. Refer to the user's guide that came with your HDTV for more information.

Watching TV

After you set up your Explorer 3270HD Set-Top, and the front panel displays the current time, you can turn on the set-top

and begin watching TV. Press the **POWER** button on the front of the set-top to turn it on.

Using the Mode Keys

Your remote can operate your set-top and your HDTV, plus two other devices that you have set up with your remote. The mode keys across the top of your remote let you specify the device you want to control:

- **AUX** controls a CD player, receiver, amplifier, or other audio devices.
- **VCR** controls a VCR or DVD player.
- **TV** controls a television.
- **CBL** controls your set-top.

If you prefer, you can set up some of these mode keys to operate other devices. For example, you can set up your **AUX** key to operate a second VCR. See **Setting Up Advanced Features for the Remote** earlier in this guide.

Note: Some of the remote keys may be disabled in various modes. For example, Play, Fast Forward, and Rewind do not function in TV mode.

Using Basic Control Keys

The following keys provide basic control for your set-top and TV:

- To turn your set-top on, press **TV** and then **POWER** on the remote control.
- To change the channel, use **CH+** and **CH-** on the remote control.
- To adjust the volume, use **VOL+** and **VOL-** on the remote control.
- To view more information about the current program, press **INFO**.
- To toggle between normal, zoom, and stretch modes while watching an SDTV source, press **#**.

Using the On-Screen Guide

Your set-top may provide an on-screen program guide that organizes programs and events into listings by channel, theme, or title. Your cable service provider should offer a user's guide for this service, if the on-screen guide is available in your area.

The current channel continues to display in the upper right corner of the on-screen guide. The upper left corner displays information about the highlighted program.

- To view or hide the on-screen guide, press **GUIDE**.
- To view information about a program, use the arrow keys on the remote (**▲ ▼ ◀ ▶**) to highlight the program.
- To view more detailed information about the highlighted program, press **INFO**.

- To view the highlighted program, press **SELECT**. If you select a program that is scheduled to occur in the future, the set-top sets a timer to record the program automatically. (You must have the IR Blaster installed to use this option. See **Setting Up the VCR Commander Service** on page 37.)
- The **▲** **B** **C** keys provide additional functions that vary, based on the current on-screen guide screen. For example, in many screens you can use the **▲** key to change the sort order of programs in the guide. The on-screen guide screen displays the functions that are assigned to each of these keys.

Changing Your Set-Top Settings

The Explorer 3270HD Set-Top offers two menus of settings that you can use to configure your set-top features, based on your preferences:

The Quick Settings menu gives you quick access to some of the more commonly used settings such as parental control, favorite channel lists, and sleep timers.

The General Settings menu gives you access to all of the quick settings plus more advanced settings, such as on-screen languages and Personal Identification Numbers (PINs).

- Press **SETTINGS** once to view the Quick Settings menu. Press **SETTINGS** again to view the General settings menu. Press **SETTINGS** a third time to hide both settings menus.
- Use the arrow keys to scroll through the settings options.
- Press **SELECT** to change the highlighted setting.
- Press **INFO** to learn more about the highlighted setting.

Closed Captioning

All TVs support closed captioning through the RF and baseband inputs. When you use the YPrPb ports to connect your set-top to

your HDTV, the set-top controls how you view closed captioning.

How Can I Turn Closed Captioning On and Off?

1. Press **SETTINGS** *twice* to access the General Settings menu.
2. Scroll to **Audio:Volume Ctrl.**
3. **To control the audio volume through the DHCT, select the Variable setting.** This setting enables you to have closed captioning turned on or off while listening to the programming audio, or to have closed captioning on while the DHCT audio is muted.
 - a. While watching TV, press **SETTINGS** to access the Quick Settings menu.
 - b. Scroll to **Caption Off/On/On with Mute.**
 - c. Press **▶** to access the options.
 - d. Scroll through the options and press **SELECT** to set your choice.
4. **To control the audio volume through the TV, select the Fixed setting.** This setting enables you to have closed captioning turned on or off while listening to the programming audio.
 - a. While watching TV, press **SETTINGS** to access the Quick Settings menu.
 - b. Scroll to **Caption Off/On.**
 - c. Press **▶** to access the options.
 - d. Scroll through the options and press **SELECT** to set your choice.

Note: If you choose Variable, you should program your remote to control the volume through the set-top. The default setting is to control the volume through the TV. See **How Do I Lock My Volume Keys To a Device** on page 34.

How Do I Choose a Closed Captioning Source?

1. Press **SETTINGS** *twice* to access the General Settings menu.
2. Scroll to **CC:Source.**
3. Press **▶** to access the STD (standard) and digital source options.
4. Scroll through the options and select the recommended sources: Std CC1 and Digital 1.

Can I Change the Way Closed Captioning Looks?

Yes, as long as the closed-captioning source supports enhanced text appearance and other attributes. If the source does not support these features, then the text color and size will not change after making the following adjustments.

1. Press **SETTINGS** twice to access the General Settings menu.
2. Scroll to **CC:Background**.
 - a. Press ► to access the background shading and color options.
 - b. Scroll through the options and select your choice.
3. Scroll to **CC:Characters**.
 - a. Press ► to access the character shading, color, and style options.
 - b. Scroll through the options and select your choice.
4. Scroll to **CC:Options**.
 - a. Press ► to access the text size and caption style options.
 - b. Scroll through the options and select your choices.

How Do I Record Closed Captioning With My Programs?

If the program contains closed caption information, it will be recorded by your VCR automatically. When the tape is played back, turn on the closed captioning feature on your TV to view the captions.

Note: An HD program records to your VCR in SD (standard definition) format.

Programming Your Remote

The mode keys are the four buttons arched across the top of the remote. These buttons are labeled AUX, VCR, TV, and CBL and let you specify the device you want to control when you are using the remote. For example, to turn on your HDTV, you must first press TV to specify TV mode. Then press **POWER**.

Your remote control arrives from the factory already programmed with the following codes:

TV 0068

VCR 0095

CBL 0458

AUX 1037

These codes operate many popular brands of electronic devices. Before you program any new codes into your remote, you should check to see if the remote already controls your devices.

To test a mode key, turn on a device, press the mode key for that device, and then press **POWER** on the remote.

- If the device turns off, then the mode key is probably programmed correctly. You should not need to program a new code for that mode key.
- If the device does not turn off, you must program a new code for this mode key.

Follow these steps to program a mode key:

1. Find the code for your brand of device in one of the code lists in this guide. The code lists begin on page 28.

To Unlock the CBL Mode Key

Your remote control is already set up to operate your set-top. The CBL mode key is locked to keep you from changing this setting accidentally. If you need to change this setting to operate another device, you must “unlock” the CBL mode key.

If you unlock your CBL mode key and change your CBL code, the remote will no longer control your set-top.



2. Make sure that the device is turned on.
 3. Press **SELECT** and a mode key (AUX, VCR, TV or CBL) at the same time until the light at the top of the remote blinks twice. For example, to set up the TV key, press **SELECT** and **TV** at the same time.
 4. Enter the code for the device. For example, if you have a Sony TV, enter **0 0 1 4**.
 5. Point the remote toward the device.
 6. Press **POWER**, **PLAY**, or **CH+** to test the device.
 7. Did the device operate correctly?
 - If **yes**, this mode key is programmed correctly. Write down these numbers on page 7 of this guide. You're ready to use the same steps for the other mode keys.
 - If **no**, repeat these steps using a different code.
- Note:** If all of the codes listed for your brand of device fail to operate your device properly, see **What If None Of These Codes Work** on page 27.

1. Press the **SELECT** key and the **CBL** key at the same time until the LED blinks twice.
2. Press **9 9 6**.
3. Press **CH-** to unlock the remote.

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

What If None Of These Codes Work?

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

1. Turn on the device.
2. Press **SELECT** and a mode key (**AUX**, **VCR**, **TV**, or **CBL**) at the same time until the light blinks twice. For example, to search for a TV code, press **SELECT** and **TV** at the same time.
3. Using the keypad on the remote, press **9 9 1**. The light blinks once.
4. Point the remote toward the device, and press **POWER**.

5. Did the device turn off?
 - If **no**, press **▲** to go to the next code, and then press **POWER** to try again.
 - If **yes**, press **SELECT** to confirm the code.

Note: Each code library contains the following number of codes:

- TV: 51 codes
- VCR: 56 codes
- AUX: 57 codes
- CBL: 10 codes

What Code Did I Find?

You can find out which codes are programmed into your remote by using the following procedure.

1. Press **SELECT** and a mode key (**AUX**, **VCR**, **TV**, or **CBL**) at the same time until the light blinks twice.
2. Using the keypad on the remote, press **9 9 0**. The light blinks twice.
3. Press **1**; then, count the light blinks. The number of light blinks indicates the first digit in the code. For example, four blinks indicates the first digit in the code is 4. If the light does not blink, the digit is 0.
4. Press **2**; then, count the light blinks. The number of blinks indicates the second digit in the code.
5. Press **3**; then, count the light blinks. The number of blinks indicates the third digit in the code.
6. Press **4**; then, count the light blinks. The number of blinks indicates the fourth digit in the code.
7. Write down your codes on page 7 of this guide.

TV Codes for the Remote

The default code for your TV mode key is **0068**.

Brand	Code	Brand	Code
AOC	0033, 0044	Fisher	0168
Admiral	0107, 0477	Fujitsu	0193
Aiko	0106	Funai	0194, 0185, 0193
Aiwa	0715	Futuretech	0194
Akai	0044	GE	0035, 0061, 1361, 0065, 0192, 0465, 1161, 0107, 0761
Alaron	0193	Gibraltar	0031, 0033, 0044
America Action	0194	GoldStar	0192, 0033, 0044, 0070
Ampro	0765	Gradiente	0070, 0067
Anam	0194	Grunpy	0193, 0194
Audiovox	0106, 0194, 0465, 0637	Hallmark	0192
Baysonic	0194	Harley Davidson	0193
Belcor	0033	Harman/Kardon	0068
Bell & Howell	0030, 0168	Harvard	0194
Bradford	0194	Hitachi	0159, 0070, 0030
Brockwood	0033	Infinity	0068
Broksonic	0250, 0477	Inteq	0031
CXC	0194	JBL	0068
Candle	0044, 0070	JCB	0014
Carnivale	0044	JVC	0067
Carver	0068	KEC	0194
Celebrity	0014	KTV	0194, 0044
Cineral	0465, 0106	Kenwood	0044, 0033
Citizen	0070, 0044, 0074, 0106	Konka	0721, 0646, 0642, 0652, 0717
Concerto	0070	LG	0070
Contec	0194	LXI	0168, 0061, 0068 , 0170, 0192, 0761
Craig	0194	Logik	0030
Crosley	0068	Luxman	0070
Crown	0194	MGA	0164, 0033, 0044, 0192
Curtis Mathes	0074, 0044, 0030, 0061, 0065, 0068 , 0070, 0107, 0159, 0168, 0180, 0465, 0761, 1161, 1361	MTC	0074, 0044, 0033, 0070
Daewoo	0106, 0637, 0033, 0638, 0465	Magnavox	0068 , 0044, 0193, 1268
Daytron	0033	Majestic	0030
Denon	0159	Marantz	0068 , 0044
Dumont	0031, 0033	Matsushita	0264
Dwin	0788	Megatron	0159, 0192
Electroband	0014	Memorex	0193, 0477, 0192, 0030, 0070, 0164, 0168, 0264
Emerson	0250, 0194, 0192, 0193, 0477, 0638, 0637, 0033, 0168	Midland	0031, 0061, 0065, 0761
Envision	0044	Minutz	0035
		Mitsubishi	0164, 0192, 0033, 0107
		Motorola	0107

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

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

VCR Codes for the Remote

The default code for your VCR mode key is **0095**.

Your VCR mode key can control a VCR or a DVD player. Use these codes to choose one of those devices.

VCR Codes

Brand	Code
Admiral	0062, 0223
Adventura	0014
Aiwa	0014, 0051
Akai	0055
American High	0049
Asha	0254
Audiovox	0051
Beaumarck	0254
Bell & Howell	0118
Broksonic	0135, 0198, 0223, 0493
CCE	0086
Calix	0051
Canon	0049
Carver	0095
Citizen	0051
Colt	0086
Craig	0051, 0086, 0061, 0254
Curtis Mathes	0049, 0055, 0074, 0176, 0774
Cybernex	0254
Daewoo	0059
Denon	0056
Dynatech	0014
Electrohome	0051
Electroponic	0051
Emerex	0046
Emerson	0198, 0223, 0135, 0493, 0014, 0051, 0057
Fisher	0061, 0118
Fuji	0047, 0049
Funai	0014
GE	0049, 0074, 0062, 0254, 0774
Garrard	0014
GoldStar	0051
Gradiente	0014
HI-Q	0061
Harley Davidson	0014
Harman/Kardon	0095
Harwood	0086
Hitachi	0056, 0014, 0055

Hughes Network Systems	0056
JVC	0081, 0055
Jensen	0055
KEC	0051
KLH	0086
Kenwood	0055, 0081
Kodak	0049, 0051
LXI	0051
Lloyd's	0014
Logik	0086
MEI	0049
MGA	0057, 0254
MGN Technology	0254
MTC	0014, 0254
Magnavox	0049, 0095 , 0014, 0053
Magnin	0254
Marantz	0095 , 0049
Marta	0051
Matsushita	0049, 0176
Memorex	0118, 0061, 0493, 0014, 0051, 0062, 0049, 0254, 1051, 0053, 0176, 0223, 1176, 1276
Minolta	0056
Mitsubishi	0057, 0062, 0081
Motorola	0049, 0062
Multitech	0014, 0086
NEC	0055, 0081, 0118
Nikko	0051
Noblex	0254
Olympus	0049
Optimus	0176, 1076, 1176, 0062, 1276, 0051, 1062, 0118
Orion	0493, 0198, 0223
Panasonic	0049, 0176, 1176, 1276, 0239, 0630, 1076
Penney	0049, 0254, 0051, 0056
Pentax	0056
Philco	0049, 0223, 0493
Philips	0095 , 0049, 0632
Pilot	0051
Pioneer	0081
Polk Audio	0095

Profitronic	0254
Proscan	0074, 0774
Protec	0086
Pulsar	0053
Quasar	0049, 0176, 1176
RCA	0074, 0056, 0049, 0062, 0254, 0774
Radio Shack	0014, 1051
Radix	0051
Randex	0051
Realistic	0014, 0118, 0061, 0062, 0051, 0049
ReplayTV	0628, 0630
Runco	0053
STS	0056
Samsung	0059, 0254
Sanky	0053, 0062
Sansui	0055, 0493, 0014, 0081, 0223
Sanyo	0061, 0118, 0254
Scott	0198, 0135, 0057, 0059
Sears	0051, 0056, 0014, 0049, 0061, 0118
Semp	0059
Sharp	0062
Shintom	0086
Shogun	0254
Singer	0086
Sony	0047, 0046, 0014, 0049, 0650, 1046
Sylvania	0049, 0095 , 0014, 0057
Symphonic	0014
TMK	0254
Tatung	0055
Teac	0014, 0055
Technics	0049, 0176
Teknika	0014, 0049, 0051
Thomas	0014
Tivo	0632, 0650
Toshiba	0059, 0057
Totevision	0051, 0254
Unitech	0254
Vector	0059
Video Concepts	0059
Videosonic	0254

Wards	0049, 0074, 0014, 0061, 0254, 0056, 0062, 0086, 0095 , 0774
White Westinghouse	0086, 0223
XR-1000	0086, 0014, 0049
Zenith	0053, 0014, 0047, 0223, 0493

DVD Codes

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

AUX Codes for the Remote

The default code for your TV mode key is **1037**.

Your AUX mode key can control a CD player, receiver, amplifier, or additional audio devices. Use these codes to choose one of those devices.

CD Codes	
Brand	Code
Aiwa	0171
California Audio Labs	0043
Carver	0171, 0193
DKK	0014
Denon	0887
Fisher	0193
Genexxa	0046
Harman/Kardon	0171, 0187
Hitachi	0046
JVC	0086
Kenwood	0042, 0840, 0051, 0640, 0695
Krell	0171
Linn	0171
MCS	0043
Magnavox	0171
Marantz	0171, 0640, 0043
Mission	0171
NSM	0171
Onkyo	0882
Optimus	0046, 0193, 1077, 0014, 0051
Panasonic	0043
Philips	0171, 0640
Pioneer	0046, 1076, 1077
Polk Audio	0171
Proton	0171
QED	0171
Quasar	0043
RCA	0046, 1076, 0193
Realistic	0193
Rotel	0171
SAE	0171
Sansui	0171
Sanyo	0193
Sharp	0051, 0875
Sherwood	1081
Sonic Frontiers	0171
Sony	0014, 0504
Technics	0043
Victor	0086
Wards	0171

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

Additional Audio Codes

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

Brand	Code
Jerrold	0473, 0534
Scientific Atlanta	0474
Starcom	0473

Amplifier Codes

Brand	Code
GE	0092
Harman/Kardon	0906
JVC	0345

Luxman	0179
Marantz	0335, 0906
Nakamichi	0335
Optimus	0409
Philips	0906
Polk Audio	0906
Realistic	0409
Sansui	0335
Sony	0703

Soundesign	0092
Victor	0345
Wards	0092
Yamaha	0368

CBL Codes for the Remote

The default code for your CBL mode key is **0458**.

Brand	Code
General Instrument	0290, 0490, 0824
Jerrold	0290, 0490, 0824
Motorola	1120
Panasonic	0121
Pioneer	0547, 0891, 1891
Scientific-Atlanta	0458 , 0491, 0891, 1891

Setting Up Advanced Features for the Remote

This section lists advanced features for your remote. None of these features are required. If you just want to watch TV, see **Watching TV** on page 22.

How Do I Lock My Volume Keys To a Device?

You can program your VOLUME and MUTE keys to function in one of two ways:

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

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

Follow these steps to change the way your VOLUME and MUTE keys function.

1. Turn on the appropriate device.
2. Press **SETTINGS** to access the General Settings on-screen menu, and verify that the Audio: Volume Control setting is set to "Variable."

3. Press **SELECT** and the appropriate mode key (AUX, VCR, TV, or CBL) at the same time until the light blinks twice.
4. Using the keypad on the remote, press **9 9 3**. The light blinks twice.
5. Do you want the VOLUME and MUTE keys to operate a single device all the time?
 - If **yes**, press the mode key for the device that you want to control the volume.
 - If **no**, press **VOL** - to control the volume through various devices based on the mode key.
6. Point the remote *toward* the device and confirm that VOLUME and MUTE function as expected.

Can I Program My Mode Keys to Control Other Devices?

Yes, you can program the TV, VCR, and AUX mode keys on your remote to control other devices. For example, you can program the AUX mode key to control a second VCR device, such as a DVD player.

1. Turn on the device.
2. Press **SELECT** and **CBL** at the same time until the light blinks twice.
3. Using the remote control keypad, press **9 9 2**. The mode keys blink twice.
4. Press the mode key that identifies the kind of the device you want to control, and then press the mode key that you

want to change. For example, to program the AUX key to operate a second VCR device, press VCR and then AUX.

If you want to reassign a key to its original mode, you must repeat this procedure. Instead of pressing two keys in step 4, press the key that you want to reassign twice:

- To identify the kind of device you want to control
- To identify the mode key that you want to change

How Do I Lock My Channel Keys To a Device?

By default, the channel keys on your remote (CH+, CH-, digits 0-9 and Last) allow you to change channels on the set-top, the TV, or a VCR, depending on the current mode. You can disable or enable channel control for the TV or VCR mode. Also, if you have reassigned your AUX key to control a second TV or VCR, you can disable or enable channel control for that device as well. See **Can I Program My Mode Keys to Control Other Devices** on page 34 for more information.

If you disable the channel control for a TV or VCR, then the channel keys in that mode will control channels on the set-top.

To disable channel controls in a mode (so that the channel keys always control the set-top):

1. Press one of the following key combinations until the light blinks twice:
 - To disable channel controls for a TV, press **SELECT** and **TV** at the same time.
 - To disable channel controls for a VCR, press **SELECT** and **VCR** at the same time.
 - To disable channel controls for both the TV and the VCR, press **SELECT** and **CBL** at the same time.
 - To disable channel controls for a TV or a VCR that is assigned to the AUX mode key, press **SELECT** and **AUX** at the same time.
2. Using the keypad on the remote, press **9 9 7**.
3. Press **CH -**. The light blinks twice to confirm the change.

To enable channel controls in a mode (so that the channel keys in that mode control the appropriate device):

1. Press one of the following key combinations until the light blinks twice:
 - To enable channel controls for a TV, press **SELECT** and **TV** at the same time.
 - To enable channel controls for a VCR, press **SELECT** and **VCR** at the same time.
 - To enable channel controls for both the TV and the VCR, press **SELECT** and **CBL** at the same time.
 - To enable channel controls for a TV or a VCR that is assigned to the AUX mode key, press **SELECT** and **AUX** at the same time.
2. Using the keypad on the remote, press **9 9 7**.
3. Press **CH +**. The light blinks twice to confirm the change.

How Do I Lock My Power Key To a Device?

By default, the POWER key on your remote operates the appropriate device for the current mode. You can choose to set up this key to operate multiple devices each time it is pressed, regardless of the current mode.

To change your power control:

1. Press **SELECT** and **CBL** at the same time until the light blinks twice.
2. Using the keypad on the remote, press **9 9 8**.
3. Press one of the following keys to choose the way the POWER key should operate:
 - Press **TV** to turn on the set-top and then the TV.
 - Press **VCR** to turn on the set-top, followed by the TV and the VCR.
 - Press **AUX** to turn on the set-top, followed by the TV and the auxiliary device.
 - Press **CBL** to turn on the set-top, followed by the TV, the VCR, and the auxiliary device.
 - Press **POWER** to control all devices individually. This is the default setting.

The light blinks twice to indicate that the change was accepted.

If your remote is set to control power on more than one device, the remote always defaults to CBL mode after you turn the devices on or off. Also, if you press POWER within three seconds of pressing any mode key (VCR, TV, AUX, or CBL), the POWER key only affects the associated device. For example, if you press the VCR key and then press the POWER key within three seconds, the remote control only turns on the VCR, regardless of the power control setting.

Note: Your cable service provider will send nightly programming updates to your set-top (such as program guide information). You should leave your set-top on at all times so that it can receive these updates.

Can I Put It All Back the Way I Got It?

Yes you can. To reset all of the advanced features to the default settings, except the codes you have programmed (TV, VCR, AUX, and CBL) and any mode keys that you may have reassigned, follow these steps.

1. Press **SELECT** and **CBL** at the same time until the light blinks twice.
2. Using the keypad, press **9 8 0**. The light blinks four times.

That's it! All of the advanced features have been reset to their factory defaults.

Setting Up the VCR Commander Service

Your cable service provider may offer a VCR Commander™ Service. This service gives you a quick and easy way to record the program you are currently watching or any program in the future.

Your set-top includes a device called an IR Blaster, which enables your set-top to control your VCR.

To use the VCR Commander service:

- Your cable service provider must offer the service.
- You must attach the IR Blaster (included) to your set-top, and set up your set-top to recognize your VCR.

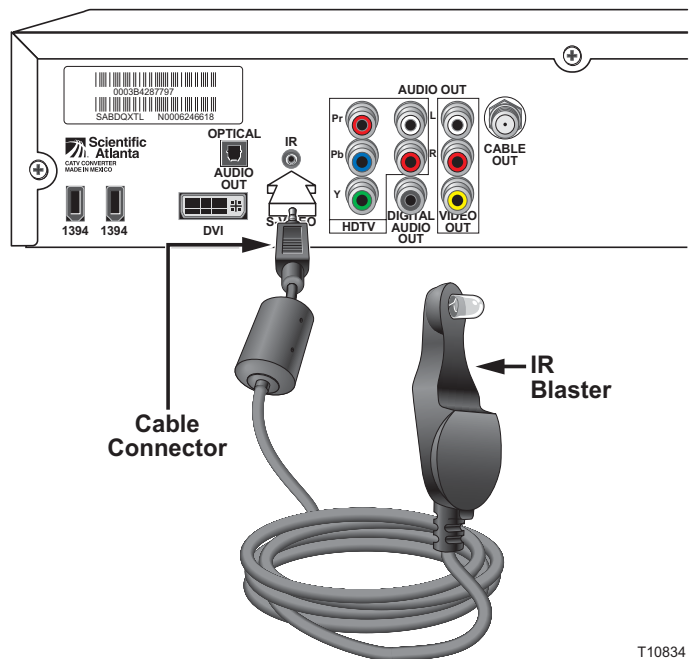
Attaching the IR Blaster Cable Connector to Your Set-Top



WARNING:
Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables.

To attach the IR Blaster cable to your set-top, follow these steps:

1. Make sure that the set-top is not connected to the AC power outlet.
2. Locate the port labeled **IR** on the back of the set-top.
3. Plug the cable connector into the IR port.
4. Reconnect the set-top to the AC power outlet.



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Attaching the IR Blaster to Your VCR

1. Refer to your VCR user's guide to locate the IR sensor window. (The IR sensor is where the VCR receives the remote control signal.)
2. Remove the covering on the adhesive strip from the loop tape, which is attached to the hook fastener on the IR Blaster.

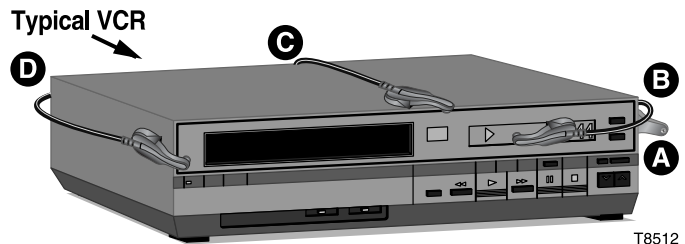
Notes:

- Attaching the IR Blaster to the VCR may be easier if the loop tape remains attached to the hook fasteners.
- After attaching the IR Blaster to the VCR, the hook and loop fastener allows you to easily remove the IR Blaster for cleaning or to move the VCR.

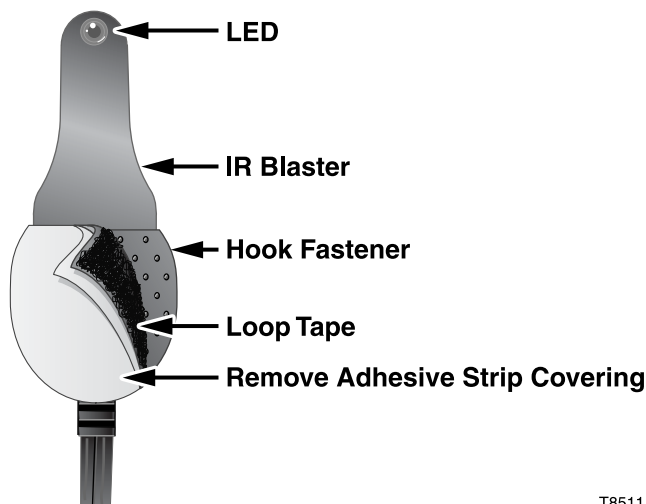
3. Mount the IR Blaster within 3 inches of the IR sensor on your VCR by pressing the IR Blaster against your VCR to secure it.

Notes:

- Locations A, B, C, and D are the typical places where the IR Blaster can be attached (within 3 inches of the IR sensor on your VCR).
- Do not block the tape insert door on your VCR.



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Setting Up VCR Commander Service

After you connect the IR Blaster, you must program the code for your brand of VCR into the memory of the VCR Commander. Before you begin, make sure that the VCR is turned off.

Note: At any time during this procedure, you can press **C** or **EXIT** to manually record a program on your VCR.

1. Turn on the power to your set-top.
2. Press **SETTINGS** twice to display the General Settings menu.
3. Press **▲** or **▼** to scroll to the **Set: VCR Commander** preference; then, press **SELECT**.

Note: If the menu does not display the VCR Commander option, contact your cable service provider to see if this service is available in your area.

4. Press **▲** or **▼** to scroll to **Setup**, and then press **SELECT**.
5. Scroll to **VCR Input**, and then press **SELECT**.
6. Your VCR is connected to your set-top by one of the following cable types. Locate your cable type in this step and follow the instructions:
 - For RF/coaxial cable, choose **Channel 3/4**, and then press **SELECT**. 
 - For RCA jacks, choose **Audio-Video**, and then press **SELECT**. 
 - For S-Video (SVHS), choose **S-Video**, and then press **SELECT**. 

7. Press **SELECT** again to display the **Status** menu.
8. Press **▲** or **▼** to scroll to **Setup** and press **SELECT**.
9. Press **▲** or **▼** to scroll to **VCR Code**, and then press **SELECT** to display the VCR Commander Instructions screen.
10. Turn to **VCR Commander Service Codes** on page 41 of this guide to find the code choice(s) for your brand of VCR that you will use in step 11.
11. Enter the code for your brand of VCR, and then press **SELECT**.

Notes:


- If more than one code is available for your brand of VCR, use the first code listed.
 - If you enter an incorrect number, press **A**, and then reenter the code.
12. Wait for the test process to complete and the power to your VCR to turn on.
 13. Did the power to your VCR turn on?
 - If **yes**, press **A**.
 - If **no**, choose one of the following options:
 - If there are additional code choices for your brand of VCR; press **B** and repeat steps 9 through 12 using the next code in your list of choices.
 - If there are no additional code choices for your brand of VCR, go to **Searching for Your VCR Code** on page 40 of this guide.

Searching for Your VCR Code

If none of the codes listed for your brand of VCR turn on the power to the VCR and start the recording, then follow these steps to scan the entire VCR code library. The scan locates the code that will turn on the power to your VCR and start the recording:

1. Enter code **0000**, and then press **SELECT**.



Note: The system scans the entire VCR code library. This process can take several minutes.

2. Wait for the test process to complete.
3. Press **SELECT** slowly and repeatedly, and wait for the VCR power to turn on.
Note: If the power to the VCR does not turn on, call your cable service provider for help.
4. If the power to your VCR turns on, press  and then go to **Setting Up a VCR Recording Test**, next in this guide, to test the code you selected.

Setting Up a VCR Recording Test

Before setting your VCR to record a program, complete these steps to verify that the code you selected operates the recording function of your VCR.

1. Insert a blank tape into your VCR and turn the VCR off.
2. Press **SELECT** to begin a recording test.
3. Wait for the recording process to begin.
4. Did the VCR begin recording?
 - If **yes**, the VCR Commander Service setup is complete. Press **SELECT** to return to the General Settings menu, or press **EXIT** to return to watching TV, or go to **Scheduling a VCR Recording** to select a program to record.

- If **no**, press  and choose one of the following options:
 - If the code list (starting on page 41) contains additional code choices for your brand of VCR, enter the next code in your list of choices and press **SELECT**. Then, go to step 5.
 - If the code list does not contain additional code choices for your brand of VCR, return to **Searching for Your VCR Code**.
5. Wait for the test process to complete and the power to your VCR to turn on.
 6. Did the power to your VCR turn on?
 - If **yes**, press , and return to **Scheduling a VCR Recording** on page 44.
 - If **no**, contact your cable service provider for help.

VCR Commander Service Codes

Find the code for your brand of VCR and use this code in the **Setting Up the VCR Commander Service** section. Start with the first code in the list and continue through the choices. The most common codes are listed first.

VCR Brand Name	Code
Action	0331
Admiral	0062, 0562
Advantz	0370
Adventura	0014
Aiko	0292, 0792
Aiwa	0014, 0051, 0420, 0450, 0482, 0551, 0651, 0751, 0851
Akai	0067, 0055, 0063, 0075, 0120, 0170, 0256, 0555, 0655, 0755
American High	0049
Asha	0254, 0754, 0854
Audiovox	0051, 0551, 0651, 0751, 0851
Beaumark	0254, 0754, 0854
Bell & Howell	0118, 0618, 0718
Broksonic	0016, 0135, 0198, 0223, 0225, 009, 0375, 0493, 0516, 0635, 0698, 0723, 0893
CCE	0086, 0292, 0586, 0792
Calix	0051, 0551, 0651, 0751, 0851
Canon	0049, 0116, 0181
Capehart	0034, 0534
Carver	0095 , 0160
Cineral	0292, 0792
Citizen	0051, 0292, 0551, 0651, 0751, 0792, 0851
Colt	0086, 0586
Craig	0051, 0061, 0086, 0254, 0285, 0551, 0561, 0586, 0651, 0751, 0754, 0851, 0854
Curtis Mathes	0049, 0055, 0069, 0074, 0176, 0555, 0655, 0755
Cybernex	0065, 0254, 0754, 0854

Daewoo	0034, 0031, 0059, 0101, 0292, 0534, 0559, 0792
Daytron	0034, 0534
Denon	0056, 0058, 0556, 0558
Dynatech	0014
Electrohome	0051, 0551, 0651, 0751, 0851
Electroponic	0051, 0551, 0651, 0751, 0851
Emerex	0046, 0546
Emerson	0014, 0016, 0050, 0051, 0057, 0075, 0082, 0102, 0135, 0198, 0222, 0223, 0225, 0226, 0292, 0308, 0309, 0375, 0493, 0516, 0524, 0551, 0557, 0635, 0651, 0657, 0698, 0723, 0751, 0792, 0824, 0851, 0893
Fisher	0061, 0068 , 0080, 0118, 0561, 0618, 0718
Fuji	0047, 0049, 0547
Funai	0014
GE	0062, 0049, 0069, 0074, 0079, 0216, 0254, 0562, 0754, 0854
Garrard	0014
Go Video	0246, 0293, 0364, 0446, 0540
GoldStar	0032, 0051, 0052, 0494, 0551, 0651, 0751, 0851, 0894
Gradiente	0014, 0022, 0422, 0522
Grundig	0209
HI-Q	0061, 0561
Harley Davidson	0014
Harman/Kardon	0052, 0089
Harwood	0082, 0086, 0586
Headquarter	0060, 0560
Hitachi	0014, 0055, 0056, 0058, 0079, 0096, 0119, 0180, 0249, 0306, 0555, 0556, 0558, 0596, 0655, 0755

JVC	0081, 0083, 0022, 0055, 0220, 0221, 0398, 0522, 0555, 0581, 0583, 0655, 0720, 0721, 0755, 0898	NEC	0081, 0083, 0052, 0054, 0055, 0064, 0096, 0118, 0471, 0555, 0581, 0583, 0596, 0618, 0655, 0718, 0755
Jensen	0055, 0555, 0655, 0755	Nikko	0051, 0551, 0651, 0751, 0851
KEC	0051, 0292, 0551, 0651, 0751, 0792, 0851	Nikon	0048, 0267, 0548
KLH	0086, 0586	Noblex	0254, 0754, 0854
Kenwood	0081, 0083, 0052, 0055, 0398, 0555, 0581, 0583, 0655, 0755, 0898	Olympus	0240, 0049
Kodak	0049, 0051, 0551, 0651, 0751, 0851	Optimus	0072, 0062, 0051, 0118, 0176, 0446, 0551, 0562, 0618, 0651, 0718, 0751, 0851
LXI	0051, 0551, 0651, 0751, 0851	Optonica	0076
Lloyd's	0014, 0222	Orion	0016, 0198, 0309, 0493, 0516, 0698, 0893
Logik	0086, 0586	Panasonic	0240, 0049, 0091, 0116, 0176, 0239, 0241, 0260, 0392
MEI	0049	Penney	0049, 0051, 0052, 0054, 0056, 0058, 0068 , 0254, 0551, 0556, 0558, 0651, 0751, 0754, 0851, 0854
MGA	0057, 0075, 0254, 0557, 0657, 0754, 0854	Pentax	0056, 0058, 0079, 0119, 0556, 0558
MGN Technology	0254, 0754, 0854	Philco	0049, 0223, 0493, 0723, 0893
MTC	0014, 0254, 0754, 0854	Philips	0049, 0076, 0095 , 0417
Magnasonic	0292, 0792	Pilot	0051, 0551, 0651, 0751, 0851
Magnavox	0014, 0049, 0053, 0095 , 0117, 0163, 0553	Pioneer	0081, 0072, 0083, 0176, 0182, 0581, 0583
Magnin	0254, 0754, 0854	Portland	0034, 0534
Marantz	0049, 0095 , 0160, 0175	Profitronic	0254, 0754, 0854
Marta	0051, 0551, 0651, 0751, 0851	Proscan	0069, 0074, 0216
Matsushita	0049, 0176	Protec	0086, 0586
Memorex	0060, 0062, 0014, 0049, 0051, 0053, 0061, 0118, 0176, 0254, 0282, 0313, 0551, 0553, 0560, 0561, 0562, 0618, 0651, 0718, 0751, 0754, 0851, 0854	Pulsar	0053, 0065, 0553
Minolta	0056, 0119, 0058, 0556, 0558	Quarter	0060, 0560
Mitsubishi	0081, 0083, 0062, 0057, 0075, 0089, 0187, 0228, 0256, 0457, 0557, 0562, 0581, 0583, 0657, 0687	Quartz	0060, 0169, 0560, 0669
Motorola	0062, 0049, 0562	Quasar	0049, 0091, 0176
Multitech	0014, 0086, 0586	RCA	0062, 0049, 0056, 0058, 0069, 0074, 0079, 0091, 0119, 0120, 0163, 0216, 0254, 0291, 0467, 0556, 0558, 0562, 0754, 0854
NAD	0072		

Radio Shack	0014, 0051, 0551, 0651, 0751, 0851	TMK	0050, 0222, 0254, 0754, 0854
Radix	0051, 0551, 0651, 0751, 0851	Tatung	0055, 0555, 0655, 0755
Randex	0051, 0551, 0651, 0751, 0851	Teac	0014, 0055, 0555, 0655, 0755
Realistic	0060, 0062, 0014, 0049, 0051, 0061, 0076, 0080, 0118, 0551, 0560, 0561, 0562, 0618, 0651, 0718, 0751, 0851	Technics	0049, 0176, 0260
Ricoh	0048, 0267, 0548	Teknika	0014, 0049, 0051, 0066, 0551, 0651, 0751, 0851
Runco	0053, 0553	Thomas	0014
STS	0056, 0058, 0556, 0558	Toshiba	0057, 0059, 0071, 0080, 0224, 0226, 0380, 0557, 0559, 0657
Salora	0089	Totevision	0051, 0254, 0551, 0651, 0751, 0754, 0851, 0854
Samsung	0067, 0059, 0065, 0254, 0559, 0754, 0854	Unitech	0254, 0754, 0854
Sanky	0062, 0053, 0553, 0562	Vector	0059, 0559
Sansui	0081, 0083, 0014, 0055, 0096, 0285, 0493, 0555, 0581, 0583, 0596, 0655, 0755, 0893	Vector Research	0052, 0054
Sanyo	0060, 0061, 0118, 0254, 0282, 0386, 0560, 0561, 0618, 0718, 0754, 0854	Video Concepts	0054, 0059, 0075, 0235, 0559
Scott	0057, 0059, 0135, 0198, 0224, 0225, 0226, 0559, 0635, 0698	Videosonic	0254, 0754, 0854
Sears	0060, 0014, 0049, 0051, 0056, 0058, 0061, 0068 , 0071, 0080, 0118, 0119, 0551, 0556, 0557, 0558, 0560, 0561, 0618, 0651, 0657, 0718, 0751, 0851	Wards	0062, 0014, 0049, 0056, 0058, 0061, 0069, 0074, 0076, 0086, 0095 , 0163, 0175, 0226, 0254, 0556, 0558, 0561, 0562, 0586, 0754, 0854
Semp	0059, 0559	White Westinghouse	0292, 0792
Sharp	0062, 0076, 0562	XR-1000	0014, 0049, 0086, 0586
Shintom	0086, 0586	Yamaha	0052
Shogun	0065, 0254, 0754, 0854	Zenith	0048, 0047, 0014, 0053, 0547, 0548, 0553
Singer	0086, 0586		
Sony	0048, 0047, 0014, 0025, 0036, 0046, 0049, 0267, 0289, 0546, 0547, 0548		
Sunpak	0267		
Sylvania	0014, 0049, 0057, 0095 , 0117, 0557, 0657		
Symphonic	0014		

Scheduling a VCR Recording

If you are using the VCR Commander Service, your set-top can help you schedule programs that you want to record. VCR Commander automatically starts and stops at the correct time to record programs you

select. You can record the program you are currently watching, or you can schedule to record a future program from the on-screen guide or by setting a timer.

Recording the Current Program

You can record the program you are currently watching using your remote control.

1. Verify that the power to your set-top is turned on.
2. Press **SETTINGS** once while viewing a full-screen TV program.
3. Press **▲** or **▼** to scroll to the **Start Recording...Now** option.
4. Press **SELECT** to set up the recording process. A screen appears with instructions for selecting the Input option of your VCR.

5. Put a blank tape in your VCR.
6. Turn off the power to your VCR.
7. Press **SELECT** to start recording the program. The set-top displays **rEc**, which indicates that recording is in process.

Note: Most of the keys on the remote control will not function while recording is in process. This ensures that the recording will not be interrupted accidentally, even if you turn off the power to the set-top.

8. Press **EXIT** to stop recording.

Recording Future Programs Using the On-Screen Guide

You can program your VCR to record future TV programs, directly from the on-screen guide. You can select up to eight programs to record.

1. Turn on the power to your set-top and TV.
2. Press **GUIDE**. The on-screen guide appears.
3. Press the arrow keys to locate and highlight the future program you want to record, and then press **SELECT**.
4. Press **▲** or **▼** to scroll to **Set a VCR Timer for**, and then press **SELECT** to set the timer. The programs that you have selected to record now appear in red, and the red REC icon indicates that a VCR timer is set.

5. Press **EXIT** to return to the TV program.
6. Put a blank tape in your VCR.
7. Turn off the power to the VCR.

Note: When you set a timer from the on-screen guide, you are setting a one-time only timer for that program. See **Setting the VCR Timer to Record Future Programs** on page 45 for information about setting 7-day, weekday only, weekend only, or single-day timers.

The volume on the set-top will automatically adjust to the maximum level when the recording begins.

Setting the VCR Timer To Record Future Programs

The VCR Timer sets your VCR Commander Service to record programs at specific days and times. Use your remote control to set the channel, day, start time, and stop time of the programs you want to record. You can set up to eight timers, including the timers set from the on-screen guide.

Important: Do not overlap program times when setting up the VCR timer. A program that you set to record will not begin recording until the previous VCR timer event has stopped.

1. Turn on the power to your set-top.
2. Press **SETTINGS** twice while viewing a full-screen TV program.
3. Press **▲** or **▼** to scroll to the **Timer: VCR New** option, and then press **SELECT**.

4. Follow the on-screen instructions to set the recording time. Refer to the user's guide that was provided by your cable service provider for detailed instructions to set the VCR Timer. Contact your cable service provider if you do not have a copy of this guide.
5. Press **▲** to accept the timer settings.
6. Put a blank tape in your VCR, and then set the Input option you selected on your VCR.
7. Turn off the VCR.
8. Press **SELECT** to set the timer, and then press **EXIT** to return to the TV program.

Cancelling a Future Recording

You can clear (or delete) a scheduled VCR Timer program from the VCR Timer.

1. Turn on the power to your set-top.
2. Press **SETTINGS** twice while viewing a full-screen TV program.
3. Press **▲** or **▼** to scroll to the **Timer: VCR** preference number for the VCR Timer program you want to clear, and then press **SELECT**.

4. Press **ⓐ** to clear (cancel) the timer, and then press **EXIT** to return to the TV program.

Note: The program name appears in the current CHAN column.

Troubleshooting

If your set-top, remote, or IR Blaster do not function as expected, read the following conditions and suggestions. If the situation persists, contact your cable service provider.

If you believe that your equipment needs repair or replacement, call Scientific-Atlanta at 1-866-212-2141.

Questions about Your Set-Top

If your set-top does not perform as expected, check the following conditions:

- Verify that the power to your TV is turned on.
- If plugged into a wall switch, verify the switch is in the ON position.
- Verify that all cables are properly connected.
- Verify that your TV is connected to the proper TV input port.

If your set-top does not perform as expected after checking the power, the cables, and the output channel, check the following conditions:

No picture

- If your system includes a VCR or stereo, verify that you have properly connected them to the set-top.
- Verify that the set-top Power light is on and the Bypass light is off.
- Your HDTV may not support the screen resolution you have selected. Go to **What if I Don't See Anything** on page 18 for more information.

No color

- Verify that the current TV program is broadcast in color.
- Adjust the TV color controls.

No sound

- If your setup includes a VCR or stereo, verify that you have properly connected them to the set-top.
- Verify that the volume is turned up.
- Verify that the Bypass feature is disabled.

The TV screen displays a message indicating that the set-top is automatically updating its software.

Wait for the time to display on the front panel of your set-top before continuing with the installation process. When the front panel displays the time, the update is complete.

Questions about Your Remote Control

The light flashes twice whenever you press a key.

The batteries are weak and should be replaced. Use two AA alkaline batteries.

The remote control keys do not function as expected.

Make sure that you press the appropriate mode key for the device you want to control.

Questions about Your VCR Commander Service

The VCR Commander Service does not turn on the power to the VCR for the scheduled recording or did not begin recording.

- Make sure that there is a blank tape in the VCR.
- Turn off the power to the VCR.
- Make sure that the IR Blaster is in front of or within 3 inches of the sensor window on the VCR.
- Make sure that the VCR timer is properly set. See **Using the VCR Timer** in the **Scheduling a VCR Recording** section of this guide.
- Try another VCR code for your VCR brand, or enter 0000. See the instructions in **Setting Up the VCR Commander Service** on page 37.

The VCR Commander Menu option does not appear on the screen.

Your set-top is not authorized for VCR Commander Service, or your cable service provider does not offer VCR Commander Service. Call your cable service provider.

After entering your VCR code, the VCR will not turn on.

Try another VCR code for your brand, or enter **0000**. See the instructions in **Setting Up the VCR Commander Service** on page 37.

You recorded an on-screen message (blocked barker), which states that the channel was not authorized.

The channel, time, or rating was blocked after the program was set. Verify that Parental Control is turned off before setting this recording.

LIMITED WARRANTY

Explorer ® 3270HD Set-top (for the United States)

Scientific-Atlanta®, Inc.'s ("S-A's") Explorer 3270HD set-top enables you to access cable television programming (including programs in high definition formatting) from your cable operator. Should you experience problems, always consult with your local cable company first to determine whether the problem is related to the cable network or your Explorer 3270HD set-top.

What does your warranty cover?

- Any defect in materials or workmanship that arises during the duration of this warranty.
- This limited warranty applies only to the S-A Explorer 3270HD set-top, remote control, and included cabling and accessories.
- This limited warranty extends to the original consumer purchaser, or any person receiving this product as a gift from the original consumer purchaser, and to no other purchaser or transferee.
- This limited warranty applies only to products purchased from an S-A authorized retailer and operated within the U.S.A.

What is the duration of your warranty?

- 12 months from purchase date, for labor and parts.
- All warranty claims must be made during the 12 month warranty period.

What will we do?

- S-A will, at its option, either repair or replace, within a reasonable time, a defective set-top. S-A may choose to replace a defective set-top at S-A's option with either a new or reconditioned set-top. A repaired or replacement set-top will be at least equivalent in performance to the original set-top. Any repaired or replacement set-top is warranted under the same terms as this Limited Warranty for a period of 90 days after the date of replacement, or for the remainder of the initial warranty period, whichever is longer.

How do you obtain warranty service?

1. First, call your cable operator to verify the problem exists with your set-top and not with your cable operator's network or your in-home wiring. Most service related problems are due to network related issues and not the set-top.
2. Once your cable operator has verified that a problem exists with the set-top, call Scientific-Atlanta at the phone number listed below to get a Return Material Authorization (RMA) number.
3. You will be asked to provide the following information:
 - a. Your name, address, and phone number.
 - b. Your set-top model and serial number. Your warranty is void if the model and/or serial number tag is missing, altered, defaced, or otherwise rendered illegible.
 - c. Your set-top purchase date. You will be required to include a copy of a valid proof of purchase from an S-A authorized retailer with your returned set-top.
 - d. A brief description of the problem.
 - e. If you want an immediate replacement set-top, then provide a Discover, MasterCard or Visa credit card number and expiration date. Your credit card will not be charged unless certain conditions are met as described below.
4. If you provided a credit card number, S-A will ship a replacement set-top to you, less cabling, power cord, remote, and accessories as an "advance exchange." Return shipping instructions will be included in your replacement set-top carton along with your RMA number. If you choose to ship the set-top back to S-A in other packaging, you will be required to pay both shipping costs as well as insurance charges. S-A will not be liable for set-tops lost, stolen, or damaged in shipment to S-A when packaged in alternative packaging.
5. If you did not provide a credit card number, S-A will repair or replace your set-top within a reasonable time period after you return it to S-A. You will be responsible for providing all return documentation described below as well as paying for both shipping and insurance charges. Do not include your cabling, power cord, remote, or accessories with your returned set-top. S-A will not be liable for set-tops lost, stolen, or damaged in shipment to S-A.
6. You will need to include the following documentation with your returned set-top shipment to S-A:
 - a. Your name, address and phone number.
 - b. Proof of purchase from an S-A authorized retailer, such as a copy of a receipt.
 - c. A brief description of the problem.
7. For advance exchanges:
 - a. If you return your defective set-top to S-A along with all of the required documentation within 14 days from the date you receive your replacement set-top, only items not covered under your warranty will be charged to your credit card.
 - b. If your set-top is not received by S-A within 14 days, the full retail value of the set-top will be charged to your credit card. If the unit is subsequently received within 30 days, charged amounts will be credited, less a \$10 handling fee.
 - c. If S-A receives the set-top without valid proof of purchase from an S-A authorized retailer, S-A will charge the credit card for required set-top repairs. Charged amounts will be credited, less a \$10 handling fee, if the required documentation is subsequently received within 30 days.

What is not covered by your warranty?

- Costs associated with diagnosing the problem. S-A will not pay cable operator or other service-related expenses or reimburse the customer for expenses pertaining to the diagnosis of the set-top or network related problems.
- Customer instruction. (Your User's Guide clearly describes how to install, adjust, and operate your set-top.)
- Signal reception problems not caused by your set-top.
- Improper installation, maintenance or handling, storage, transportation, testing, repair or related adjustments. (Do not open the cover of this set-top. If you open the cover, your warranty will be void.)
- Damage from misuse or neglect.
- A set-top with a trade name or logo other than S-A's.
- A set-top that has been modified or incorporated into other products.
- A set-top that has been used for institutional, rental, or other commercial purposes.
- A set-top purchased, serviced, or operated outside the U.S.A.
- Cosmetic problems or defects resulting from normal wear and tear under ordinary use, which do not affect the performance or use of the set-top.
- Acts of God, such as, but not limited to, lightning damage.
- Damage caused by external electrical fault or electrical surges.
- Damage to or loss of any programs or data, or the costs of recovering such programs or data.
- Repairs that do not involve defective materials or workmanship are not covered by this warranty.
- Costs for the removal, installation, and/or re-installation of any equipment on a customer's premise.
- Accessories not originally included with the Explorer 3270HD set-top.
- Units or parts which have been lost or discarded by you.
- Batteries for remote control units.
- Loss of programming.
- A set-top that does not work with your local cable operator's network
- Any other cause outside of normal usage parameters.

What additional provisions should I be aware of?

- Because it is impossible for us to know the purposes for which you acquired this set-top or the uses to which you will put this set-top, you assume full responsibility for the selection of the set-top and for its installation and use. While every reasonable effort has been made to ensure that you will receive a set-top that you can use and enjoy, S-A does not warrant that the functions of the set-top will meet your requirements or that the operation of the set-top will be uninterrupted or error-free. Neither S-A, or your cable operator are responsible for problems caused by changes in the operating characteristics of the software you are using, or for any problems in the interaction of the set-top with any other software or hardware, including your TV. Your local cable company may download software onto your set-top. S-A does not license or warrant such software to you.

How does state law relate to this warranty?

- This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Disclaimer and Limitation of Remedy

- ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. NO PERSON, AGENT, DISTRIBUTOR, DEALER OR COMPANY IS AUTHORIZED TO CHANGE, MODIFY OR EXTEND THE TERMS OF THESE WARRANTIES IN ANY MANNER WHATSOEVER. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY MAY LAST, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
- IF THE PRODUCT DOES NOT PERFORM AS WARRANTED, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT. IN NO EVENT SHALL S-A, OR ANY DEALER, DISTRIBUTOR OR AUTHORIZED SERVICE PROVIDER BE LIABLE FOR ANY DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE SET-TOP. THIS LIMITATION APPLIES TO DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO DIRECT OR INDIRECT DAMAGES, LOST PROFITS, LOST SAVINGS, LOST DATA, OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF CONTRACT, TORT OR OTHERWISE, OR WHETHER ARISING OUT OF THE USE OF OR INABILITY TO USE THE PRODUCT, EVEN IF S-A, OR ANY DEALER, DISTRIBUTOR OR AUTHORIZED SERVICE PROVIDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR OF ANY CLAIM BY ANY OTHER PARTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY IS GOVERNED BY THE LAWS OF THE STATE OF GEORGIA, EXCLUDING ITS CONFLICT OF LAWS RULES.

SCIENTIFIC-ATLANTA, INC.

5030 Sugarloaf Parkway

Lawrenceville, Georgia 30044

USA

Toll-Free Phone number: 1-866-212-2141

United States FCC Compliance

This equipment has been tested and found to comply with the applicable limits of Part 15 of 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 or TV 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:

- 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 your cable company 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 the equipment.

Important: 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 listed 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 regarding the operation or installation of this device.*

FCC Declaration of Conformity

This device complies with *Part 15 of FCC Rules*. Operation is subject to the following two conditions: 1) the device may not cause harmful interference, and 2) the device must accept any interference received, including interference that may cause undesired operation.

EXPLORER® Digital Interactive Set-Top model:
Model 3270HD

Manufactured by: Scientific-Atlanta, Inc.;
5030 Sugarloaf Parkway;
Lawrenceville, Georgia 30042; USA
Telephone 770-236-1077

Canada EMI Regulation

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Software and Firmware Use

Scientific-Atlanta, Inc. owns copyrights to the software included in your set-top and furnishes the software to your cable service provider under a license agreement. You may only use or copy this software in accordance with the terms of your cable service provider.

Scientific-Atlanta, Inc. owns copyrights to the firmware in this equipment. You may only use the firmware in the equipment in which it is provided. Any reproduction or distribution of this firmware, or any portion of it, without the express written consent of Scientific-Atlanta, Inc. is prohibited.

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AllTouch® AT2400 Quick Reference Guide

Set **Auxiliary, VCR, TV, Cable** modes

Display cable **Settings**

Navigate through on-screen options with the **arrows**

View **Next** or **Previous** screen

Mute the sound

Adjust **Volume**

Access channel **numbers**

Rewind, Play VCR and VOD

Pause, Stop VCR and VOD

Power on and off

Display **Guide**

Select the current option

Exit settings, menu, guide

View **Favorite** channels

Return to **Last** channel viewed

View **Information** about selected program or General Settings option

Channel up and down

Select **A, B, C** on-screen options

Normal, Stretch, Zoom modes

Fast-Forward VCR and VOD

Record VCR



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