IMPORTANT SAFETY INSTRUCTIONS

Notice to Installers

The servicing instructions in this notice are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

Note to System Installer

For this apparatus, the coaxial cable shield/screen shall be grounded as close as practical to the point of entry of the cable into the building. For products sold in the US and Canada, this reminder is provided to call the system installer's attention to Article 820-93 and Article 820-100 of the NEC (or Canadian Electrical Code Part 1), which provides guidelines for proper grounding of the coaxial cable shield.

CAUTION
**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

AVIS
**RISQUE DE CHOC ÉLECTRIQUE
NE PAS OUVRIR**

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 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.

Ce symbole a pour but d'alerter toute personne qu'un contact avec une pièce interne de ce produit, sous tension et non isolée, pourrait être suffisant pour provoquer un choc électrique. Il est donc dangereux d'être en contact avec toute pièce interne de ce produit.

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

Ce symbole a pour but de vous avertir qu'une documentation importante sur le fonctionnement et l'entretien accompagne ce produit.

20080814_Installer820

1) **Read these instructions.**
2) **Keep these instructions.**
3) **Heed all warnings.**
4) **Follow all instructions.**
5) **Do not use this apparatus near water.**
6) **Clean only with dry cloth.**
7) **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.**
8) **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**
9) **Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.**
10) **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.**
11) **Only use attachments/accessories specified by the manufacturer.**
12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.**
13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**
14) **Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.**
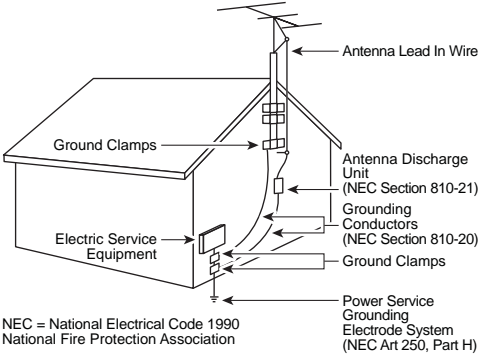
Power Source Warning

A label on this product indicates the correct power source for this product. Operate this product only from an electrical outlet with the voltage and frequency indicated on the product label. If you are uncertain of the type of power supply to your home or business, consult your service provider or your local power company.

The AC inlet on the unit must remain accessible and operable at all times.

Ground the Product

WARNING: Avoid electric shock and fire hazard! If this product connects to coaxial cable wiring, be sure the cable system is grounded (earthed). Grounding provides some protection against voltage surges and built-up static charges.

Outdoor Grounding System

If this product connects to an outdoor antenna or cable system, be sure the antenna or cable system is grounded (earthed). This provides some protection against voltage surges and built-up static charges.

Article 810 of the National Electric Code (NEC) ANSI/NFPA No. 70-1990, provides the following information:

- Grounding of the mast and supporting structure
- Grounding the lead-in wire to an antenna discharge unit
- Size of the grounding conductors
- Location of the antenna-discharge unit
- Connection to grounding electrodes
- Requirements for the grounding electrodes (see the following antenna grounding diagram as recommended by NEC ANSI/NFPA 70)

WARNING: Avoid electric shock and fire hazard! Do not locate an outside antenna system in the vicinity of overhead power lines or power circuits. Touching power lines or circuits might be fatal.

Antenna Lead In Wire

Ground Clamps

Antenna Discharge Unit
(NEC Section 810-21)

Grounding Conductors
(NEC Section 810-20)

Electric Service Equipment

Ground Clamps

Power Service Grounding Electrode System
(NEC Art 250, Part H)

NEC = National Electrical Code 1990
National Fire Protection Association

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

T15378

Protect the Product from Lightning

In addition to disconnecting the AC power from the wall outlet, disconnect the signal inputs.

Verify the Power Source from the On/Off Power Light

When the on/off power light is not illuminated, the apparatus may still be connected to the power source. The light may go out when the apparatus is turned off, regardless of whether it is still plugged into an AC power source.

Eliminate AC Power/Mains Overloads

WARNING: Avoid electric shock and fire hazard! Do not overload AC power/mains, outlets, extension cords, or integral convenience receptacles. For products that require battery power or other power sources to operate them, refer to the operating instructions for those products.

Handling Disposable Batteries

This product may contain disposable batteries. Heed the following warning and follow the Safety and Disposal instructions below.

WARNING: There is danger of explosion if the battery is mishandled or incorrectly replaced. Replace only with the same type of battery. Do not disassemble it or attempt to recharge it outside the system. Do not crush, puncture, dispose of in fire, short the external contacts, or expose to water or other liquids. Dispose of the battery in accordance with local regulations and instructions from your service provider.

Safety

- Insert batteries correctly. There may be a risk of explosion if the batteries are incorrectly inserted.
- Do not attempt to recharge 'disposable' or 'non-reusable' batteries.
- Please follow instructions provided for charging 'rechargeable' batteries.
- Replace batteries with the same or equivalent type that we recommend.
- Do not expose batteries to excessive heat (such as sunlight or fire).
- Do not expose batteries to temperatures above 100° C (212° F).

Disposal

- The batteries may contain substances that could be harmful to the environment.
- Recycle or dispose of batteries in accordance with the battery manufacturer's instructions and local/national disposal and recycling regulations.

廢電池請回收

- The batteries may contain perchlorate, a known hazardous substance, so special handling and disposal of this product might be necessary. For more information about perchlorate and best management practices for perchlorate-containing substance, see **www.dtsc.ca.gov/hazardouswaste/perchlorate**

Provide Ventilation and Select a Location

- Remove all packaging material before applying power to the product.
- Do not place this apparatus on a bed, sofa, rug, or similar surface.
- Do not place this apparatus on an unstable surface.
- Do not install this apparatus in an enclosure, such as a bookcase or rack, unless the installation provides proper ventilation.
- Do not place entertainment devices (such as VCRs or DVDs), lamps, books, vases with liquids, or other objects on top of this product.
- Do not block ventilation openings.

Operating Environment

This product is designed for operation indoors with a temperature range from 32° to 104° F (0° to 40°C). Each product should have adequate spacing on all sides so that the cooling air vents on the chassis are not blocked.

Protect from Exposure to Moisture and Foreign Objects

WARNING: Avoid electric shock and fire hazard! Do not expose this product to dripping or splashing liquids, rain, or moisture. Objects filled with liquids, such as vases, should not be placed on this apparatus.

WARNING: Avoid electric shock and fire hazard! Unplug this product before cleaning. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this product.

WARNING: Avoid electric shock and fire hazard! Never push objects through the openings in this product. Foreign objects can cause electrical shorts that can result in electric shock or fire.

Cisco Explorer 8640HDC, 8642HDC, 8650HDC, and 8652HDC High-Definition Set-Tops with Multi-Stream CableCARD (M-Card) Interface

Service Warnings

WARNING: Avoid electric shock! Do not open the cover of this product. Opening or removing the cover may expose you to dangerous voltages. If you open the cover, your warranty will be void. This product contains no user-serviceable parts.

Check Product Safety

Upon completion of any service or repairs to this product, the service technician must perform safety checks to determine that this product is in proper operating condition.

Protect the Product When Moving It

Always disconnect the power source when moving the apparatus or connecting or disconnecting cables.

20110316_Cable_Safety

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

- Reorient or relocate the receiving antenna.
- 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 service provider or an experienced radio/television technician for help.

Any changes or modifications not expressly approved by Cisco Systems, 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 listed are for FCC-related questions only and not intended for questions regarding the connection or operation for this device. Please contact your service provider for any questions you may have regarding the operation or installation of this device.*

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.

Cisco Explorer 8640HDC, 8642HDC, 8650HDC, and 8652HDC High-Definition Set-Tops

Models: 8640HDC, 8642HDC, 8650HDC, 8652HDC

Manufactured by:
Cisco Systems, Inc.
5030 Sugarloaf Parkway
Lawrenceville, Georgia 30044 USA
Telephone: 678 277-1120

Canada EMI Regulation

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

20081121 FCC Standard

AVC VIDEO LICENSE

With respect to each AVC/H.264 product, we are obligated to provide the following notice:

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL USE OF A CONSUMER OR OTHER USES IN WHICH IT DOES NOT RECEIVE REMUNERATION TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE HTTP://WWW.MPEGLA.COM.

Accordingly, please be advised that service providers, content providers, and broadcasters may be required to obtain a separate use license from MPEG LA prior to any use of AVC/H.264 encoders and/or decoders.

ROVI CORPORATION COPYRIGHT NOTICE

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering and disassembly are prohibited.

Disclaimer

Cisco Systems, Inc. assumes no responsibility for errors or omissions that may appear in this guide. We reserve the right to change this guide at any time without notice.

Cisco Systems, Inc.
5030 Sugarloaf Parkway, Box 465447
Lawrenceville, GA 30042

**678 277-1120
800 722-2009
www.cisco.com**

Cisco and the Cisco Logo are trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and other countries. A listing of Cisco's trademarks can be found at **www.cisco.com/go/trademarks**.

CableCARD and M-Card are trademarks of Cable Television Laboratories, Inc.

Manufactured under license from Dolby Laboratories. Dolby is a trademark of Dolby Laboratories.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

MoCA is a trademark of the Multimedia over Coax Alliance.

Rovi is a trademark of Rovi Corporation.

Other third party trademarks mentioned are the property of their respective owners.

The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1009R)
©2009–2010, 2012 Cisco Systems, Inc. All rights reserved.

July 2012

Part Number 4026878 Rev D

Welcome

The Cisco® Explorer® HDC High-Definition Set-Tops with Multi-Stream CableCARD™ (M-Card™) Interface (set-tops) receive and deliver digital signals, and deliver high-definition programming in exceptional picture and audio quality. Use the simple user interface to access favorite channels and parental control services. Contact your service provider for information about these and other available services. Use the instructions in this guide to install the set-top and to access your program services.

The consumer support website provides news and information about this product. For more information, please refer to:
http://www.cisco.com/web/consumer/support/index.html

Safety First

Before using this set-top read the IMPORTANT SAFETY INSTRUCTIONS section of this guide.

Avoid Screen Burn-In

Images such as letterbox bars or side bars, bright closed-captioning backgrounds, station logos, or any other stationary images may cause the TV screen to age unevenly and cause damage to your TV. Refer to the user guide that came with your TV for more information about screen burn-in.

Automatic Software Updates

A message appears on the TV screen when the set-top and the M-Card module are receiving software updates. In addition, download information also appears on the front panel of the set-top during these updates. Wait for the current time to display on the front panel before continuing. When the time appears, the update is complete.

Performance Tips

If the set-top does not perform as expected, the following tips may help.

No picture

- Verify that the power to your TV is turned on.
- If the set-top is plugged into a wall switch, verify the switch is in the ON position. (Avoid plugging into an outlet that is controlled by a wall switch.)
- Verify that all cables are properly connected.
- The current channel may not be available in your service package. Try selecting another channel to see if a picture appears.
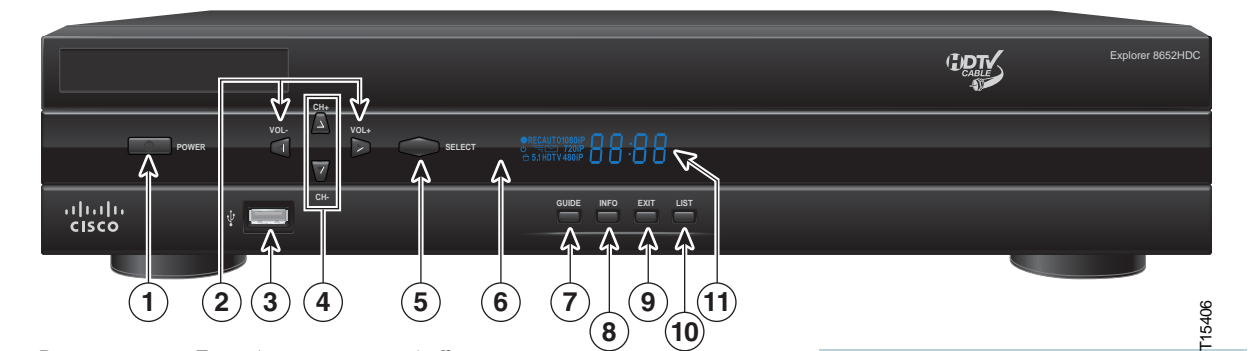
No color

- Verify 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 the volume is turned up.
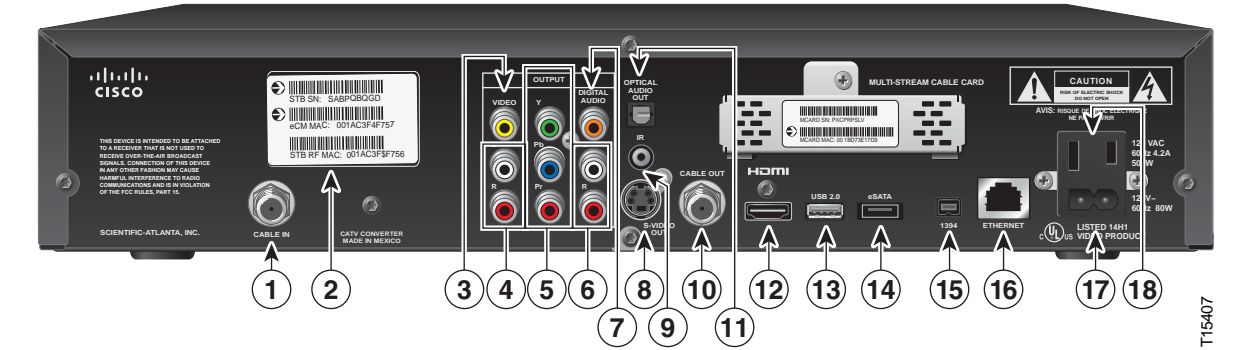- Verify the mute function is not on.

Front Panel

T15406

1	Power	Turns the set-top on and off
2	VOL-, VOL+	Decreases and increases the volume
3	USB 2.0	Connects to external USB equipment approved by your service provider, software controlled
4	CH+, CH-	Scrolls up and down through the channels
5	Select	Accesses your on-screen selection
6	IR Sensor	Receives the infrared signal from the remote control
7	Guide	Accesses on-screen services, such as the on-screen guide, video-on-demand, or pay-per-view
8	Info	Displays a description of the selected program. This button is available from the on-screen menu and while viewing a program
9	Exit	Exit menus, the on-screen menu, and program information
10	List	Displays the recorded list
11	Display	Displays the selected channel number and time of day. The display shows the following:

- Power (⏻)
- Message (✉)
- Record (●REC)
- MoCA™ Link (⌂)
- HDTV
- Auto
- 480i / 480P
- 720i / 720P
- 1080i / 1080P
- 5.1

Note: This illustration may vary from the actual product.
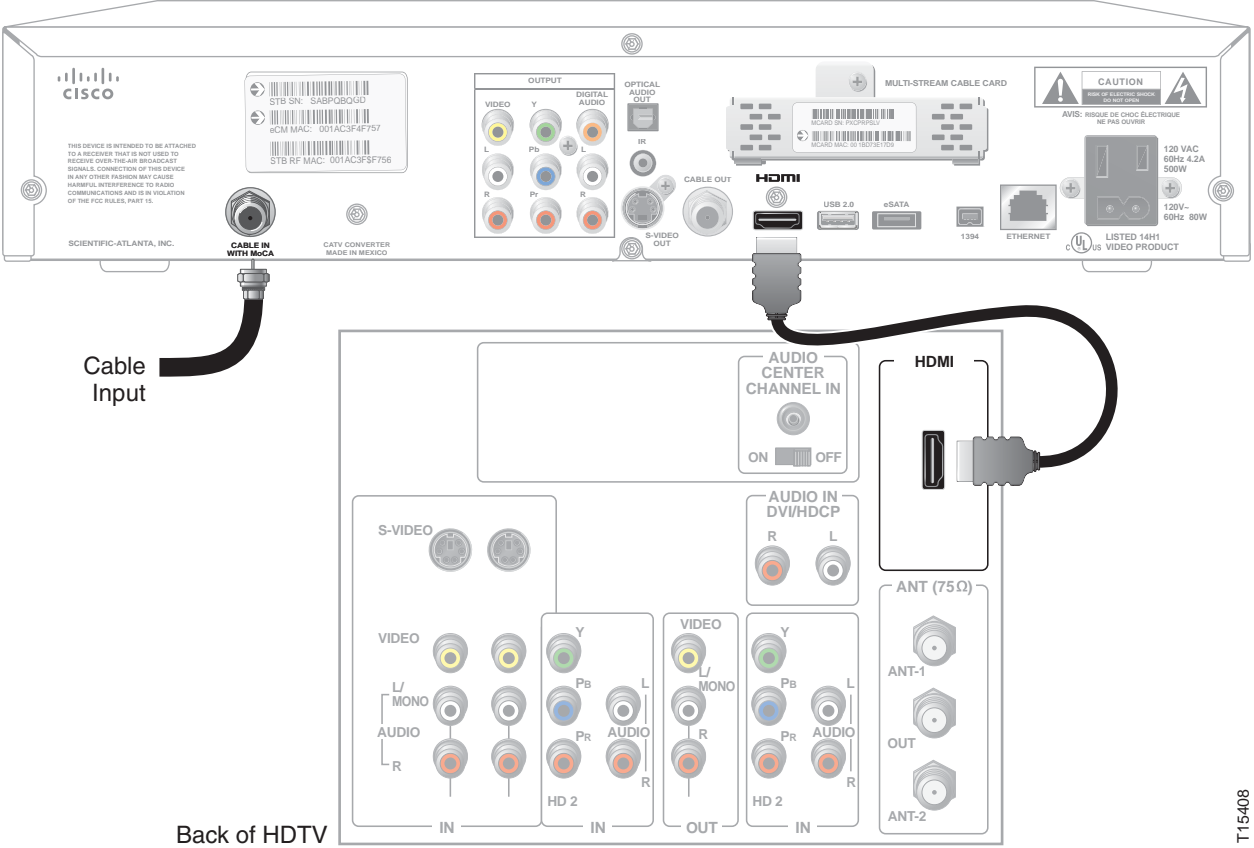
Back Panel

T15407

1	Cable In	Connects to a coaxial cable that delivers the signal from your service provider
2	Video Out	Connects to the composite input on your TV
3	Audio Out	Connects to RCA cables that send analog audio signals (left and right) to the stereo inputs on a TV
4	HDTV (YPbPr)	Connects to the component input (YPbPr) on the HDTV
5	Audio Out	Connects to RCA cables that send analog audio signals (left and right) to the stereo inputs on a TV
6	Digital Audio Out	Connects to an RCA cable that sends a digital audio signal to a surround-sound receiver or other digital audio device input
7	S-Video Out	Connects to an S-Video cable that sends an S-Video signal to your TV or VCR. This signal is standard-definition, but higher quality than other SDTV connections
8	IR Remote Input	Available to be connected to an approved remote IR receiver (purchased separately)
9	Cable Out	Connects to a coaxial cable that sends analog audio and video signals to a TV or VCR
10	Optical Audio Out	Connects to an optical cable that sends a digital audio signal to a surround-sound receiver or other digital audio device input
11	HDMI	Connects an HDMI™ cable to the HDMI input of an HDTV. HDMI supports both digital audio and video. May be used to connect to a DVI interface using an HDMI-to-DVI adapter for video and separate audio connections. Any of the following audio connections may be used: Audio Out (3 or 5); Digital Audio Out (6); or Optical Audio Out (10)
12	USB 2.0	Connects to external USB equipment approved by your service provider, software controlled
13	eSATA	Connects to an external Serial ATA (eSATA) hard disk drive for expanded drive space. A connected eSATA drive is not an archival device. Ask your service provider for a list of approved hard drive models for use with the DVR
14	Multi-Stream CableCARD	Slot for M-Card module, which decrypts subscription digital channels. This set-top will not operate correctly without an M-Card module which is installed by your service provider
15	1394	Connects to display devices that are equipped with a 1394 input
16	Ethernet	Connects to external Ethernet equipment approved by your service provider
17	AC Power Input	Connects to the power cord to deliver power to the set-top
18	AC Outlet	Connects to the AC power cord from another device, such as a TV

Note: This illustration may vary from the actual product.

Connecting to an HDTV with HDMI Input

1. Unplug all electronic devices before connecting the set-top.
2. Connect the set-top and TV to the HDMI input as shown in the diagram.
3. Connect the set-top to the coaxial cable coming in from the wall.
4. Plug the TV into an AC power source.
5. Plug the set-top's power cord into an AC power source.
6. For the TV to receive the signal, press the appropriate button on the remote control to select the audio/video inputs to which you have connected the set-top.
7. Press the **POWER** key on the remote control.

8652HDC

Cable Input

Back of HDTV

T15408

Note: This illustration may vary from the actual product.