### **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 eminder is provided to call the system installer's attention to Article 820-93 and Article 820-100 of the NEC (or Canadiar Electrical Code Part 1), which provides guidelines for proper rounding of the coaxial cable shield.



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



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to gualified service personne 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 produ Ce symbole a pour but de vous avertir qu'une documentation importante sur le fonctionnement et l'entretien accompagne ce produit.

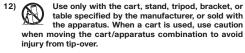
20080814\_Installer820

### 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



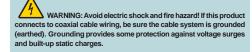
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in an way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects 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

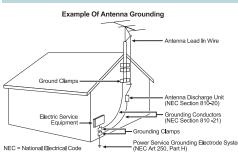


### **Outdoor Grounding System**

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 arounding 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.



T11518

### 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 Liaht

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

### **Eliminate AC Mains Overloads**



source

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



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'
- · 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/ te/nerchlorate

### 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.

### Protect from Exposure to Moisture and Foreign Objects

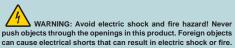
WARNING: Avoid electric shock and fire hazard! Do not expose this product to dripping or splashing liquids, rain, or moisture Objects filled with liquids, such as vases, should not be placed on this apparatus.

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

## ...... CISCO

# Cisco Explorer 8640HD, 8642HD, 8650HD, and 8652HD High-Definition DVR Set-Tops





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. 20081112 Cable Safety

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 quarantee 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

· Connect the equipment into an outlet on a circuit different from that to

Consult the service provider or an experienced radio/television technician

· Increase the separation between the equipment and receiver.

United States FCC Compliance This device has been tested and found to comply with the limits for a Class du Canada.

# ...... CISCO

installation of this device.

n the United States and certain other countries. Macrovision is a registered trademark of Macrovision Corp. MoCA is a trademark of the Multimedia over Coax Alliance Product and service availability is subject to change without notice © 2009 Cisco Systems, Inc. All rights reserved. January 2009

for help Any changes or modifications not expressly approved by Cisco Systems. Inc., could void the user's authority to operate the equipment

more of the following measure

· Reorient or relocate the receiving antenna

which the receiver is connected.

Service Warnings



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

## FC 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 8640HD, 8642HD, 8650HD, and 8652HD High-Definition DVR Set-Tops Models: 8640HD, 8642HD, 8650HD, 8652HD Manufactured by:

Cisco Systems, Inc. 5030 Sugarloaf Parkway Lawrenceville, Georgia 30044 USA Telephone: 770-236-1077

### Canada EMI Regulation

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

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 AND NON-COMMERCIAL LISE OF A CONSUMER 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 AND NON-COMMERCIAL 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 are required to obtain a separate use license from MPEG LA prior to any use of AVC/H.264 encoders and/or decoders.

### Macrovision Copyright Notice

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



Service Provider Video Technology Group 5030 Sugarloaf Parkway, Box 46544 Lawrenceville, GA 30042

678,277,1000

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### Welcome

The Cisco® Explorer® HD High-Definition DVR Set-Tops (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 is 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**

12 Smart Card

**Back Panel** 

1 Cable In

2 Video Out

3 Audio Out

5 Audio Out

7 S-Video Out

9 Cable Out

11 HDMI

12 USB 2.0

13 eSATA

14 1394

15 Ethernet

17 AC Outlet

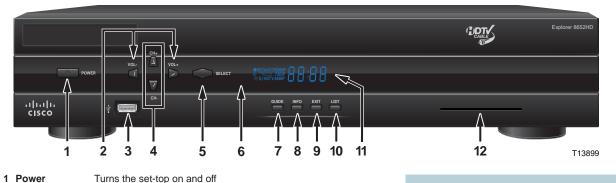
16 AC Power Input

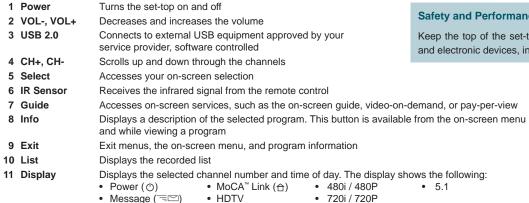
4 HDTV (YPbPr)

6 Digital Audio Out

8 IR Remote Input

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Auto

3

Connects to display devices that are equipped with a 1394 input

Connects to the AC power cord from another device, such as a TV

Connects to the power cord to deliver power to the set-top

Connects to external Ethernet equipment approved by your service provider

Connects to the component input (YPbPr) on the HDTV

Connects to the composite input on your TV

but higher quality than other SDTV connections

5

Available to be connected to an approved remote IR receiver (purchased separately)

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

Connects to external USB equipment approved by your service provider, software controlled

678

Connects to RCA cables that send analog audio signals (left and right) to the stereo inputs on a TV

Connects to RCA cables that send analog audio signals (left and right) to the stereo inputs on a TV

Connects to an RCA cable that sends a digital audio signal to a surround-sound receiver or other digital audio

Connects to an S-Video cable that sends an S-Video signal to your TV or VCR. This signal is standard-definition,

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)

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

4

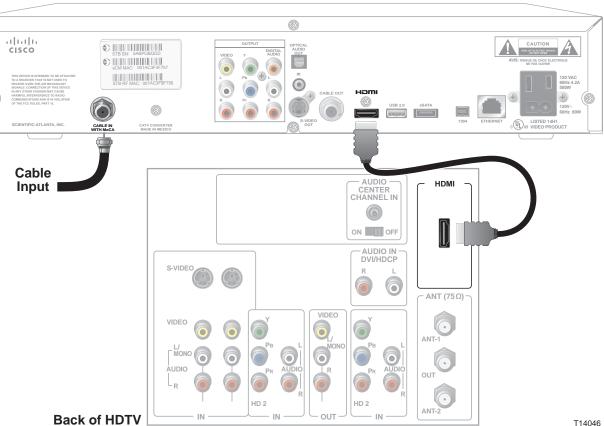
Connects to a coaxial cable that delivers the signal from your service provider

Record (●REC)

Note: This illustration may vary from the actual product

Allows smart card access

and electronic devices, including your TV.



Note: This illustration may vary from the actual product.

WARNING: Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the set-top.

### U.S. Patents

A patent notice is affixed to this product. In addition
,498,169; 4,692,919; 4,748,667; 4,829,569; 4,866,770; 4,885,775; 4,888,7
,058,160; 5,142,575; 5,142,690; 5,146,526; 5,155,590; 5,214,390; 5,225,9
,282,028; 5,285,497; 5,287,351; 5,301,028; 5,309,514; 5,317,391; 5,319,70
,406,558; 5,418,782; 5,420,866; 5,420,923; 5,425,101; 5,428,404; 5,430,50
,481,389; 5,481,542; 5,485,221; 5,493,339; 5,497,187; 5,500,758; 5,502,4
,657,414; 5,675,575; 5,684,876; 5,715,515; 5,724,525; 5,734,822; 5,740,3
,923,755; 5,930,024; 5,930,515; 5,937,067; 5,963,352; 5,966,163; 5,982,42
,157,719; 6,188,729; 6,195,389; 6,212,278; 6,215,530; 6,219,358; 6,240,1
,424,717; 6,433,906; 6,438,139; 6,463,586; 6,467,091; 6,476,878; 6,493,8
i,667,994; 6,671,879; 6,674,967; 6,678,891; 6,714,598; 6,721,352; 6,721,9
,823,385; 6,832,386; 6,845,106; 6,868,473; 6,874,075; 6,889,191; 6,909,4
,988,900; 6,996,838; 7,010,801; 7,053,960; 7,065,213; 7,069,578; 7,0695

Note: This illustration may vary from the actual product.

device input

device input

### **Connecting to an HDTV with HDMI Input**

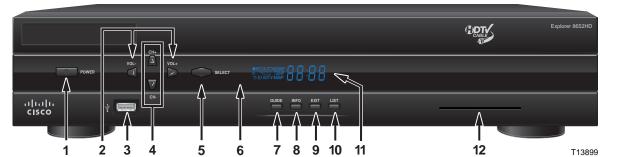
- 1. Unplug all electronic devices before connecting the set-top.
- 2. Connect the set-top and TV to the HDMI input as shown in the diagram.
- 3. Connect the set-top to the coaxial cable coming in from the wall.
- 4. Plug the TV into an AC power source.

8652HD

- 5. Plug the set-top's power cord into an AC power source.
- connected the set-top.
- 7. Press the POWER key on the remote control

Safety and Performance Tip Keep the top of the set-top free of all objects

T13900



• 1080i / 1080P

9 10 11

12 13 14

15 16 17

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

on, the product may also be covered by one or more of the following patents:

799; 4,890,319; 4,922,456; 4,922,532; 4,924,498; 4,965,534; 4,991,011; 5,003,384; 5,012,510; 5,029,207; 5,045,816; 5,053,883; 5,054,071; 002: 5 225 925: 5 235 619: 5 237 610: 5 239 540: 5 241 610: 5 247 364: 5 255 086: 5 257 403: 5 267 071: 5 270 809: 5 271 041: 5 272 753 502, 522, 523, 524, 525, 534, 7385, 5347, 385, 5357, 276, 5359, 601, 5361, 565, 5367, 571, 5379, 141; 5379, 145; 5381, 431; 5393, 337; 5340, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 337; 540, 431; 5369, 347; 5469, 199: 5.506.904: 5.519.780: 5.539.822: 5.550.825: 5.579.055: 5.579.057: 5.583.562: 5.592.551: 5.596.606: 5.600.378: 5.602.933: 5.640.388 103; 6,243,145; 6,246,767; 6,252,964; 6,272,226; 6,292,081; 6,292,568; 6,320,131; 6,374,275; 6,405,239; 6,411,602; 6,417,949; 6,424,714; 76: 6.510.519: 6.516.002: 6.516.412: 6.526.508: 6.538.595: 6.546.013: 6.560.340: 6.567.118: 6.570.888: 6.622.308: 6.629.227: 6.664.984 55; 6, 725, 459; 6, 738, 982; 6, 744, 982; 6, 744, 967; 6, 751, 271; 6, 760, 918; 6, 795, 972; 6, 802, 077; 6, 804, 708; 6, 811, 447; 6, 817, 028; 6, 822, 972 \$71; 6, 917, 622; 6, 917, 628; 6, 922, 412; 6, 927, 806; 6, 928, 656; 6, 931, 058; 6, 937, 729; 6, 969, 279; 6, 971, 1008; 6, 971, 121; 6, 978, 310; 6, 986, 156 572; D348065; D354959; D359737; D363932; D390217; D434753; D507240; D507535; D513407; D516518; RE36368; RE36988