Connecting the Explorer 3300 Digital Home Communications Terminal
Notice for CATV Installers

CATV Installers Notice

If you are a CATV installer, read the information in the box below.

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
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AVIS
RISQUE DE CHOC ELECTRIQUE
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 of the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.
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IMPORTANT SAFETY INSTRUCTIONS

Heed Warnings
Adhere to all warnings on the product and in the operating instructions.

Read, Retain, and Follow These Instructions
Read all of the instructions before you operate this product. Follow all operating instructions that accompany this product. Retain the instructions for future use. Give particular attention to all safety precautions.

Comply With Warnings
Avoid electric shock. Comply with all warnings and cautions in the operating instructions, as well as those that are affixed to this product.

Power Warnings
Providing a Power Source
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.

Usage Warnings
Providing Ventilation
This product has openings for ventilation that protect it from overheating. To ensure the reliability of this product, do the following:

• Do not block or cover these openings.
• 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 place this product in any of the following locations:
  - On a bed, sofa, rug, or similar surface
  - Near heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat
  - In an enclosure, such as a bookcase or rack, unless the installation provides proper ventilation

Selecting a Proper Location

Place this product in a location that is close enough to an electrical outlet and where the power cord is easily accessible to be disconnected from the wall outlet or from the rear panel of the product.

Cleaning This Product

Before cleaning this product, unplug it from the electrical outlet. Use a damp cloth to clean this product. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this product.

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Checking 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.

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)

Lightning
For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. Plugging this product into a surge protector in order to reduce the risk of damage.

Note: Unplugging this product for an extended period of time can result in loss of authorization. For reauthorization, contact your cable service provider.

Power Lines

WARNING: To avoid electric shock, do not locate an outside antenna system in the vicinity of overhead power lines or power circuits.

Do not locate an outside antenna system in the vicinity of overhead power lines or power circuits. When installing an outside antenna system, take extreme care to keep from touching power lines or circuits, as contact might be fatal.
Welcome!

The Explorer® 3300™ Digital Home Communications Terminal receives and displays analog and digital signals, and it delivers programs in exceptional picture and audio quality.

Through the 3300 you can also access interactive services, such as video-on-demand and pay-per-view programs. Contact your cable service provider for information about these and other available services.

Use the instructions in this guide to install the 3300, to become familiar with the buttons on the front panel, and to access your cable services. Then, sit back and enjoy the Explorer 3300 set-top experience!

For more information about this product, visit our website:


Safety First

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

Identify Your Set-Top

If the set-top requires troubleshooting in the future, your cable service provider may ask for this serial number.

To find the serial number for your set-top, look on the back panel for a label that is similar to the example shown here. The serial number begins with SA and is located in the lower left corner of the bar code.

Use the space provided here to record the serial number:

____________________________________________
What’s On the Front Panel?

1. **Power**
   
   Turns the set-top on and off

2. **VOL + and VOL -**
   
   Enables you to increase and decrease the volume

3. **CH + and CH -**
   
   Enables you to scroll up and down through the channels

4. **Select**
   
   Provides access to your on-screen selection

5. **IR Sensor**
   
   Receives the infrared signal from the remote control

6. **LED Display**
   
   Displays the selected channel number and time of day. The LED also displays the following:
   
   - Message (✉)
   - Power (ibold)

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 key is available from the on-screen guide and while viewing a program

9. **Exit**
   
   Exits menus, the on-screen guide, and program information

10. **Settings**
    
    Accesses the Settings menu

11. **Smart Card***
    
    Allows smart card access

12. **USB Port***
    
    Connects to external equipment, such as a keyboard

*These features may not be available on all 3300 models.
What’s On the Back Panel?

1 IR  
   This connector is reserved for future use.

2 S-Video Out  
   Connect an S-Video cable to send an S-Video signal to your TV or VCR. This signal is standard definition but higher quality than other standard television connections.

3 Digital Audio Out  
   Connect an RCA cable to send a digital audio signal to a surround-sound receiver or other digital audio device.

4 Video Out  
   Connect to the video input of your TV or VCR.

5 Audio Out (LEFT and RIGHT)  
   Connect RCA cables to Audio Out to send analog audio signals (left and right) to a stereo receiver or TV with stereo outputs.

6 Cable Out  
   Connect a coaxial cable to Cable Out to send analog audio and video signals to a TV or VCR. These signals are SDTV video and monaural audio.

7 Cable In  
   Connect the coaxial cable to Cable Out that delivers the signal from your cable service provider.

8 RF BYPASS  
   Contact your cable service provider for more information.

9 AC Outlet  
   Connect the AC power cord from another device, such as a TV.

10 AC Power Input  
   Connect the power cord to deliver power to the set-top.
Connecting the Set-Top

To connect your set-top to your entertainment devices, complete these steps.

1. Connect the coaxial cable that carries the signal from your cable service provider to the CABLE IN connector on the back panel of the set-top.

2. Before connecting your SDTV to the set-top, read the Connections for a Standard-Definition TV and VCR section on page 10. Then, see the connection diagrams beginning on page 12.

3. Plug the set-top and the TV into an AC power source. **Important:** To protect the set-top from power surge damage, ground (earth) your cable product to provide some protection against voltage surges and built-up static charges. To avoid these voltage surges that can be caused by lightning storms and power outages, plug the set-top into a surge protector to reduce the risk of damage.

4. Do not turn on the set-top or TV yet.

5. It may take several minutes for the set-top to receive the latest software, programming, and service information. Wait until you see one of the following displays on the front panel of the set-top that indicates that the update is complete:
   - Current time
   - Four dashes (- - - -)

   **Note:** If four dashes are displayed, you must call your cable service provider to get the set-top authorized.

6. To begin watching TV, turn the TV ON, and press POWER on the front of the set-top or Power on the remote control.
## Connections for a Standard-Definition TV and VCR

Before you begin to connect the set-top with an SDTV, refer to your TV user’s guide for detailed connection instructions.

Then, use one of the following connection combinations, but not both:

- Connect the VIDEO OUT port and the L/R AUDIO OUT ports from the set-top to the VIDEO IN and L/R AUDIO IN ports on a TV or VCR.
- Or, connect the CABLE OUT port from the set-top to the CABLE IN/ANT IN port on a TV or VCR.

**Note:** The S-Video connection is an optional connection. However, it is the preferred video connection if it is available on your TV. You must make a separate audio connection when using S-Video.

### Required Connections to an SDTV

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<th>SDTV Connections</th>
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<td>Video</td>
<td>The Video Out connection provides a video connection to standard-definition TVs.</td>
<td>![VIDEO OUT]</td>
</tr>
<tr>
<td>S-Video</td>
<td>The S-Video Out connection is an alternative to the video connection and provides optimal video to standard-definition TVs.</td>
<td>![S-VIDEO OUT]</td>
</tr>
<tr>
<td>Audio</td>
<td>The left and right audio outputs provide stereo sound when connected to a stereo receiver or a TV with stereo sound.</td>
<td>![L AUDIO OUT] ![R AUDIO OUT]</td>
</tr>
<tr>
<td>Cable Out</td>
<td>The Cable Out connection provides both a video and an audio connection to an SDTV.</td>
<td>![CABLE OUT]</td>
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### Optional Connections

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<th>SDTV Connections</th>
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<tbody>
<tr>
<td>VCR</td>
<td>The Cable Out connection provides both a video and an audio connection to the VCR.</td>
<td>![CABLE OUT]</td>
</tr>
<tr>
<td>Home Theater</td>
<td>The Digital Audio Out connection provides an excellent audio signal to a surround-sound receiver or other digital audio devices. <strong>Note:</strong> Digital audio is only active on digital channels.</td>
<td>![DIGITAL AUDIO OUT]</td>
</tr>
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Watch TV

Use the Remote Control to Access Services and Programs
Press the following keys on the remote control to access cable services and programs:

- **Guide**—Display the on-screen guide of TV programming schedules and other services available from your cable service provider, such as video-on-demand and pay-per-view programs.
- **Arrows**—Highlight a program in the schedule.
- **Info**—Display the description of a specific program (either from the on-screen guide or while viewing a program).
- **Select**—Watch a specific program in the guide.

Performance Tips
If the set-top does not perform as expected, the following tips may help. If you need further assistance, contact your cable service provider.

**No Picture**
- Verify that the power to your TV is turned on.
- If the set-top is plugged into a wall switch, verify the wall switch is in the ON position. **Note:** You should avoid plugging the set-top into an outlet that is controlled by a wall switch.
- Verify that all cables are properly connected.
- If your system includes a VCR or stereo, verify that you have properly connected them to the set-top.
- Verify that your TV is connected to the proper TV input port.
- Verify that the TV is set to the proper input channel.

**No Color**
- Verify that the current TV program is broadcast in color.
- Adjust the TV color controls.

**No Sound**
- If your setup includes a stereo, verify that you have properly connected it to the set-top.
- Verify that the volume is turned up.
- Verify that the mute function is not engaged.

Frequently Asked Questions

**Where are the connection diagrams?**
The diagrams on the following pages show examples of typical connections for the set-top.

**What cables do I need?**
Some of the cables shown in the diagrams may not be included with the set-top. The required cables are shown in the connection diagrams on the following pages.
Connecting the Set-Top to a Standard TV and Standard VCR

1. Connect the set-top to the VCR.

2. Connect the VCR to the TV.

**WARNING:** Electric shock hazard! Unplug all electronic devices before connecting or disconnecting any device cables to the set-top.
Connecting the Set-Top to a Stereo TV and Stereo VCR

1. Connect the set-top to the stereo TV.
2. Connect the set-top to the stereo VCR.
3. Connect the stereo TV to the stereo VCR.

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

**Setting Up Digital Stereo Sound**

To set up digital stereo sound, connect an RCA cable from the DIGITAL AUDIO OUT on the set-top to the DIGITAL AUDIO IN on your TV (if equipped) or stereo receiver.

**Note:** Digital audio is only available on digital channels.
Connecting the Set-Top to a Home Theater Receiver

1. Connect the set-top to the Home Theater Receiver.

2. Connect the Home Theater Receiver to the stereo TV.

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

Setting Up Digital Audio

To set up digital audio, connect an RCA cable from the DIGITAL AUDIO OUT on the set-top to the DIGITAL AUDIO IN on your TV (if equipped) or to a stereo receiver.

**Notes:**

- Digital audio is only available on digital channels.
- Depending on the capabilities of your home theater system, you may need to manually switch from digital to analog inputs.
United States FCC Compliance
This equipment has been tested and found to comply with the applicable limits of Part 15 of the 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 Cisco 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 the FCC Rules. Operation is subject to the following two conditions:

1) this device may not cause harmful interference, and
2) this device must accept any interference received, including interference that may cause undesired operation.

EXPLORER® 3300
Digital Home Communications Terminal:
Model 3300
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.

Software and Firmware Use
Cisco Systems, 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.
Cisco Systems, 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 Cisco, Inc. is prohibited.

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