



Pace IPTV Receivers Installation Manual

Supports Models IPH8005 and IPH8010
For use with your AT&T U-verse® TV service

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Safety Information

This digital receiver has been manufactured and tested with your safety in mind. However, improper use can result in potential electric shock, property damage, or fire hazards. To avoid defeating the safeguards that have been built into your receiver, please observe the precautions discussed in this document.

Warnings on the power supply unit



The lightning flash with arrowhead symbol, within a triangle, is intended to alert you to the presence of uninsulated “dangerous” voltages within your receiver’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within a triangle is intended to alert you to the presence of important instructions in the literature accompanying your receiver.

To ensure correct operation, use this receiver only with the Pace-approved power supply unit provided. If you use an unapproved alternative, you will invalidate the warranty.

Other warnings

- To reduce the risk of electric shock, do not remove the cover of your receiver. There are no user-serviceable parts inside it.
- Do not perform any servicing unless you are qualified to do so. Refer all servicing to qualified service personnel. Servicing the receiver yourself will invalidate the warranty.
- To reduce the risk of fire or electric shock, do not expose this receiver to rain or moisture.
- To avoid possible damage to the apparatus or to a connected TV or component, all AC power cords must be plugged into properly wired outlets and should not be connected to a switched outlet. As with all electrical products, connection to faulty or defective components, or the failure to connect the apparatus to a properly wired outlet, may cause sparking, property damage, or damage to any TV or other component connected to the apparatus and pose a fire hazard.
- Failure to heed the Safety Information provided by failing to connect to a properly wired outlet may void the manufacturer's warranty.

Important safety instructions

Before you install or use the apparatus, you must read and understand these Important Safety Instructions. At all times when installing or using the apparatus you must follow these Important Safety Instructions to reduce the risk of fire, electrical shock, property damage and injury to persons.

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 and accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus is damaged in any way, such as a power-supply cord or plug is damaged, liquid is spilled or objects have fallen into the apparatus, the apparatus is exposed to rain or moisture, does not operate normally, or has been dropped.

In addition to the "Important safety instructions" section, please read the safety information below.

Power sources

The model number, serial number, and electrical rating of this receiver are on a label on its base.

You must operate your receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. If you move your receiver between locations at different temperatures, allow it to reach room temperature before you apply power to it.

Overloading

Do not overload wall AC outlets, extension cords, or other power outlets as this can result in a risk of fire or electric shock.

Lightning

For added protection for your receiver during a lightning storm, or when it is left unattended and unused for long periods of time, disconnect your receiver from the power supply and disconnect your receiver from your U-verse home network. See also item 12 in the “Important safety instructions”.

Ambient temperature

The operating temperature range of your receiver is 32-104° F. If the ambient temperature around your receiver falls outside this range, you must correct this in order for your receiver to work correctly and safely. For example, if the temperature is too high, make sure there is sufficient ventilation and that your receiver is not directly on top of or underneath other equipment. Do not place the receiver in direct sunlight.

Ventilation and location

Slots and openings in the casing of your receiver are provided for ventilation, to ensure reliable operation of your receiver and to protect it from overheating.

- Never block the ventilation openings by placing your receiver on a bed, sofa, rug, or other similar surface. Place the receiver horizontally on a flat, hard surface.
- Never cover the ventilation openings with items such as newspapers, tablecloths, or curtains.
- You can place your receiver near other consumer electronics devices, such as stereo amplifiers or televisions, but you must not place it directly on top or underneath them.
- Do not place your receiver in a built-in installation such as a bookcase or rack unless proper ventilation is provided and you have adhered to the manufacturer's instructions.
- Maintain a minimum distance of three inches around your receiver for sufficient ventilation.

See also item 7 in the “Important safety instructions”.

Water and moisture

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 the receiver. See also item 5 in the “Important safety instructions”.

Entry of objects and liquids

Never push objects of any kind into your receiver through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on your receiver.

Placement and mounting

Do not place your receiver on an unstable or uneven surface. Your receiver may fall, causing serious injury to a child or adult and serious damage to your receiver.

Risk of fire or scorching

Never place open flame sources, such as lighted candles, on or adjacent to your receiver.

SAVE THIS INFORMATION FOR FUTURE REFERENCE

Safety aspects of connections

For full details about the rear panel connections, see “Connecting the Receiver” on page 14.

Connecting

Do not connect your receiver (or any other equipment such as a TV or VCR) to the power supply until you have properly connected all the other cables. Your receiver is designed for use only with the supplied power supply unit.

On the power supply unit there is a label that specifies the correct AC power supply input for it. Do not connect the power supply unit to any supply other than this.

Always connect the 12 volt connector from the power supply unit to your receiver before you insert the AC power connector from the power supply unit into the wall AC outlet.

Disconnecting

To disconnect power from your receiver, always detach the power supply unit from the wall AC outlet (rather than remove the 12 volt connector from your receiver).

You must install your receiver near to the wall AC outlet, which should be easily accessible.

If you are in any doubt about the power supply unit, its plug or its connection, consult a qualified electrician.

Note to the installer

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. To reduce the risk of electric shock, do not remove cover or back. There are no user-serviceable parts inside the unit. Refer all servicing issues to qualified service personnel.

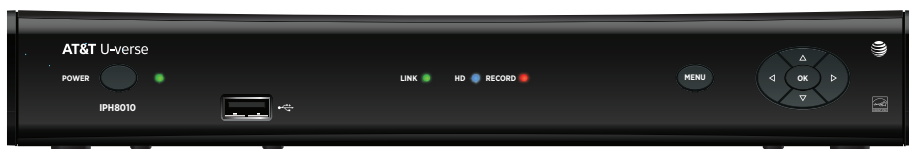
The shield of the coaxial cable must be grounded in accordance with Article 840-101A of the National Electrical Code, NFPA 70, 2011 Edition.

Service address:

Pace Americas, Inc.
3701 FAU Blvd., Suite 200
Boca Raton, FL 33431

Introduction

Welcome to AT&T's U-verse video service. The IPH8005 and IPH8010 U-verse receivers bring a new set of interactive services directly to you through your TV and your in-home IP network. The receiver uses your existing in-home coaxial cable for HPNA connections or Ethernet home network wiring and connects to most entertainment devices.



The following IPTV services may be available through this receiver:

- *Digital Video Recorder (DVR)*. Allows you to record your favorite programs to an internal hard disk and watch them at your convenience.
- *Pause Live TV*. Allows you to pause the live TV and resume watching your programming from where you left it.
- *High-Definition (HD)*. Provides high-resolution video and Dolby Digital audio.
- *Video-On-Demand (VOD)*. Gives you access to a library of movies and programs that you can watch, when you want to watch them.

With your receiver's DVR functionality, you can do the following:

- Pause live TV.
- Instantly replay live TV.
- Fast-forward up to the point of live TV.
- Rewind through a program that you are currently watching.
- Record high-definition content (as well as standard definition).
- Watch your recorded programs on other receivers in the household with AT&T's Total Home DVR feature.
- Record up to four programs while watching previously recorded programs.
- Schedule your receiver to record a program or a whole series.
- Manage your stored recordings.
- Retain full control over any parental viewing restrictions you have set up.

You control your receiver's DVR functions and other U-verse features using your remote control. Consult the information provided by AT&T U-verse for more details or visit the online feature guide at www.att.com/userguides.

Package contents

In addition to this installation manual, the receiver carton contains the following items:


- *IPH8005 or IPH8010 receiver.* A TV receiver that supports high-definition (HD) and standard-definition (SD) video decoding.
- *Power cord and adapter.* A 12 volt power supply unit that provides power from an AC wall outlet to the receiver.
- *Installation Manual.* An installation manual that provides connection information for the IPH8005 and IPH8010 receivers.

Before using the receiver, read the "Important safety instructions" on page 5 of this manual. This manual describes how to connect your receiver to both your in-home IP network and your entertainment system. The manual also outlines safeguards and installation information. The safety information contained in this manual was developed and provided solely by the receiver manufacturer, Pace Americas.

Serial number

At times AT&T may ask for your serial number. To find the serial number, look on the bottom of the receiver for the label. The serial number is the numeric code to the right of the letters “S/N” on the label, as shown on the following sample label.


Serial number
location






Model: IPH8010
AT&T U-verse DVR
Basic SD/HD
Rating: 12V --- 1.5A

HW: AK
SW: IPTVL- 1015
Factory ID: CCT
Made in Thailand

Manufactured under license from Dolby
Laboratories. Dolby and the double-D symbol
are trademarks of Dolby Laboratories.

P/N: 296-0411700


S/N: 1234567890123




HPNA MAC: 48:44:48:de:ac:8b

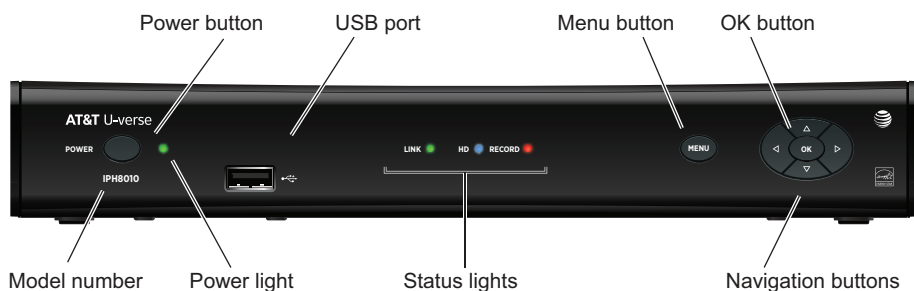
GUID: c440f5e7-2b49-41f5-8b07-b9f478946384

Date of Mfg: 12/2013

Use the space below to record the serial number for your receiver:

Front panel

The following illustration shows the buttons, lights, and connectors on the front of the receiver.



Power button

Turns the set-top box on or off.

Power light

Lights green when the set-top box is powered on. Blinks when receiving input from the remote control or when the front-panel buttons are pressed.

Model number

Identifies the model number of the receiver.

USB port

Reserved for future use.

Link light

Lights green when the box has a good connection to the AT&T network.

HD light

Lights blue to indicate the receiver is configured to display high-definition programming when available.

Record light

Lights red when the DVR is recording content.

Menu button

Launches the on-screen menu.

Navigation buttons

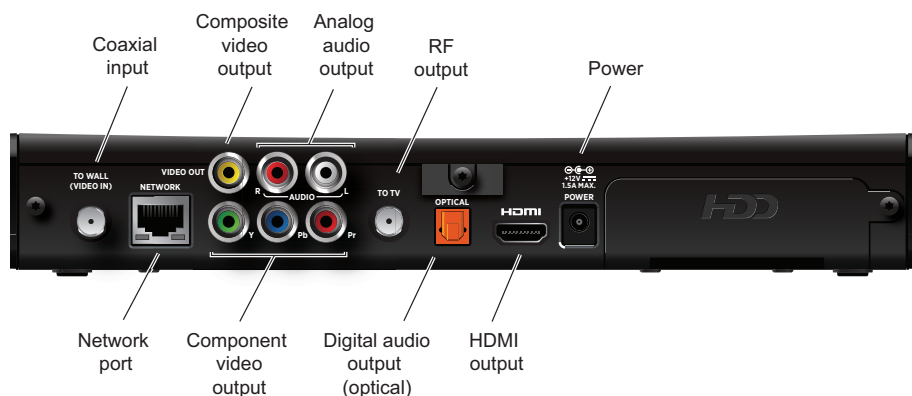
Navigates to on-screen menu options.

OK button

Confirms the on-screen menu choice.

Back panel

The following illustration shows the ports and connectors on the back of the receiver.



TO WALL (VIDEO IN)

Connects the HPNAv3 in-home network over coaxial cable, if applicable.

NETWORK

Connects the Ethernet network cable, if applicable.

Y Pb Pr

Connects the receiver to a high-definition TV or home theater receiver using a component video connection.

VIDEO OUT

Connects the receiver to a standard-definition TV using a composite video connection.

AUDIO

Connects the receiver to a TV or home theater receiver using an analog audio connection.

TO TV

Connects the set-top box to the RF/Antenna connector on your TV or VCR (optional).

OPTICAL

Connects the receiver to a TV or home theater receiver using a digital audio connection.

HDMI

Connects the receiver to a high-definition TV or home theater receiver using an HDMI connection.

POWER

Connects the power adapter to the receiver. The LED lights green when the receiver is receiving power from the wall outlet.

Connecting the Receiver

To view programs broadcast in high definition, your receiver must be connected to a suitable high-definition TV or computer monitor. Your receiver is also compatible with standard-definition TVs and VCRs.

Your receiver should have been connected to your TV by your installer. However, if you need to disconnect and re-connect your equipment, please read the information in this chapter carefully before you re-connect the receiver to your TV.

WARNING: Before you begin:

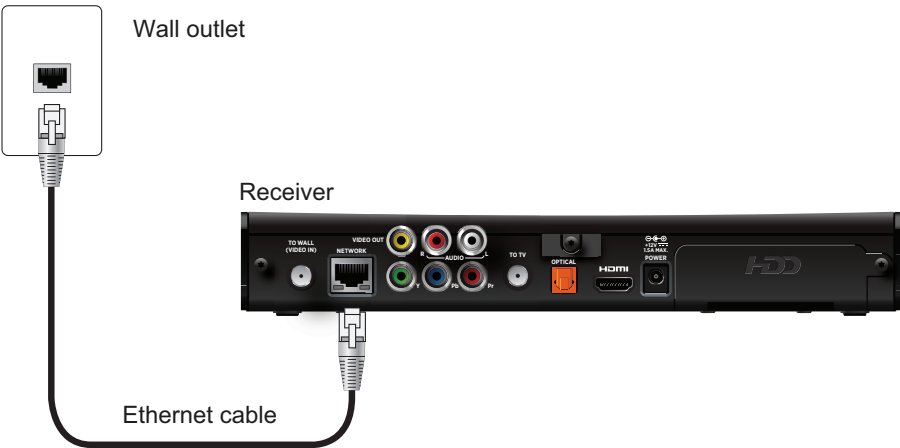
- Do not connect your receiver (or any other equipment such as a TV or DVD player) to the AC power supply until you have properly connected all the other cables.
- Disconnect your receiver from the AC power supply before you disconnect any other equipment from its rear panel.
- To disconnect power from your receiver, always detach the power supply unit from the wall electrical outlet (rather than removing the cord from your receiver). You should install your receiver near a wall electrical outlet that is easily accessible.
- The TO WALL (VIDEO IN) connector is designed for connection to an HPNAV3 in-home network over coaxial cable. You must not connect any other equipment to this input.
- Any cable connected to the OPTICAL connector must be a fiber optic TOSLINK connector, not a regular audio cable.
- If you are in any doubt about the power supply cord, its plug or its connection, consult a qualified electrician.
- Use the TV remote to set the input to match the connector selected on the back of the TV.

Connect the receiver to the home network

If you connect to your IPTV signal from your HPNAv3 in-home network over coaxial cable, use the TO WALL (VIDEO IN) connector on the back panel of the receiver to connect to the HPNAv3 in-home network through a coaxial cable.



If you connect to your home network with an Ethernet (CAT-5) cable, use the NETWORK connector on the back panel of the receiver to connect to the home network Ethernet port.



Note: Use only one of these connections to access your home network.

Connect the receiver to the TV

The connections for an HD or SD TV are different, and before you begin, you must determine if your TV is HD or SD. Your TV must receive HD signals for you to enjoy the benefits of HDTV. Refer to the manual that came with your TV for more information.

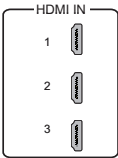
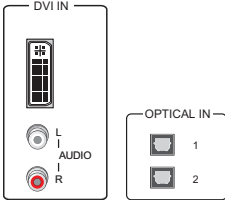
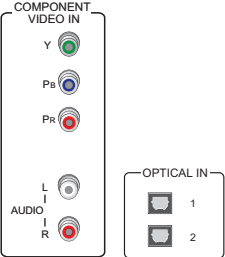
Determining the type of connection to use

The connection type you use is determined by the type of connections on your TV or home theater receiver. The following tables list the connectors that can be used for high-definition TVs and standard-definition TVs, respectively.

Connections for HDTV

To use the receiver with high-definition TVs, you need to use one of the following connections to view HD content. For more information about making HDTV connections, check the owner's manual for your TV and the appropriate connection diagrams in this manual.

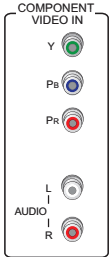

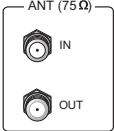
Note: The labeling on your HDTV may vary slightly from the illustrations shown in the table.

Name	Connector	Description
HDMI		Provides the HD connection using an HDMI input on the TV. The HDMI-to-HDMI connection transmits both HD video and digital audio. For connection information using HDMI, see "Using an HDMI connection" on page 18.
DVI		Provides the HD connection using a DVI input on the TV. The HDMI-to-DVI connection transmits HD video only. For digital audio, use a TOSLINK fiber optic cable to connect to the digital audio connector on the TV. For standard audio, use the Audio L/R RCA connectors. For connection information using DVI, see "Using a DVI connection with digital audio" on page 19.
Component video		Provides the HD connection using the component video input on the TV. For digital audio, use a TOSLINK fiber optic cable to connect to the digital audio connector on the TV. For standard audio, use the Audio L/R RCA connectors. For connection information using component video, see "Using a component video connection with digital audio" on page 21.

Connections for SDTV

To use the receiver with standard-definition TVs, you need to use one of the following connections to view SD content. For more information about making SDTV connections, check the owner’s manual for your TV and the appropriate connection diagrams in this manual.

Note: The labeling on your SDTV may vary slightly from the illustrations shown in the table.

Name	Connector	Description
Component video		Provides the SD connection using the component video input on the TV. For standard audio, use the Audio L/R RCA connectors. For connection information using component video, see “Using a component video connection with analog audio” on page 22.
Composite video		Provides the SD connection using the composite video input on the TV. For standard audio, use the Audio L/R RCA connectors. For connection information using composite video, see “Using a composite video connection” on page 23.
RF coaxial		Provides the SD connection using the coaxial input on the TV. The RF coaxial connection transmits standard video and audio. For connection information using an RF coaxial cable, see “Using an RF coaxial connection” on page 24.

Using an HDMI connection

The HDMI connector provides the connection to an HDTV. HDMI carries signals for video and audio.

To connect the receiver to the TV using an HDMI cable:

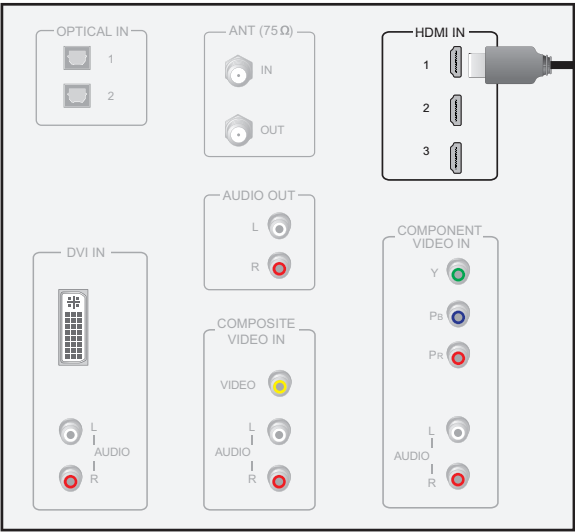
- 1. Insert one end of the HDMI cable into the HDMI connector on the receiver.
- 2. Insert the other end of the HDMI cable into an available HDMI connector on the TV.

Receiver



HDMI cable

Television



Note: The HDMI connector on the TV must support high-bandwidth digital content protection (HDCP).

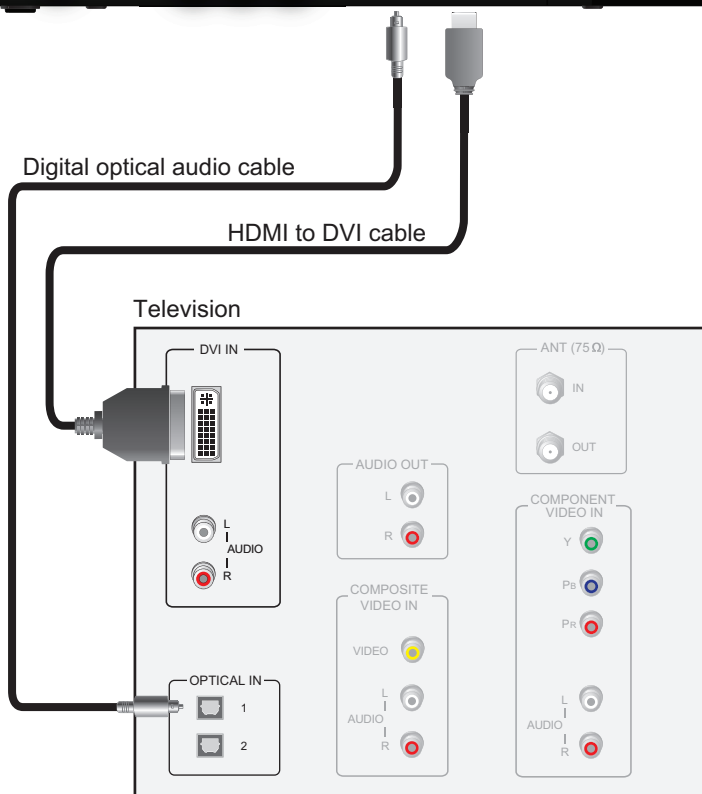
Using a DVI connection with digital audio

The HDMI connector on the receiver can provide the connection to an HDTV with a DVI input. If your HDTV has a Digital Visual Interface (DVI) connector, you need an HDMI-to-DVI cable and a separate digital optical audio cable.

To connect the receiver to the TV using an HDMI-to-DVI cable and digital audio cable:

1. Insert the HDMI end of the cable into the HDMI connector on the receiver.
2. Insert the 24-pin DVI end of the cable into the DVI connector on the TV.
3. Connect the fiber optic audio cable to the OPTICAL connector on the receiver.
4. Connect the other end of the fiber optic audio cable to an available OPTICAL IN connector on the TV.

Receiver

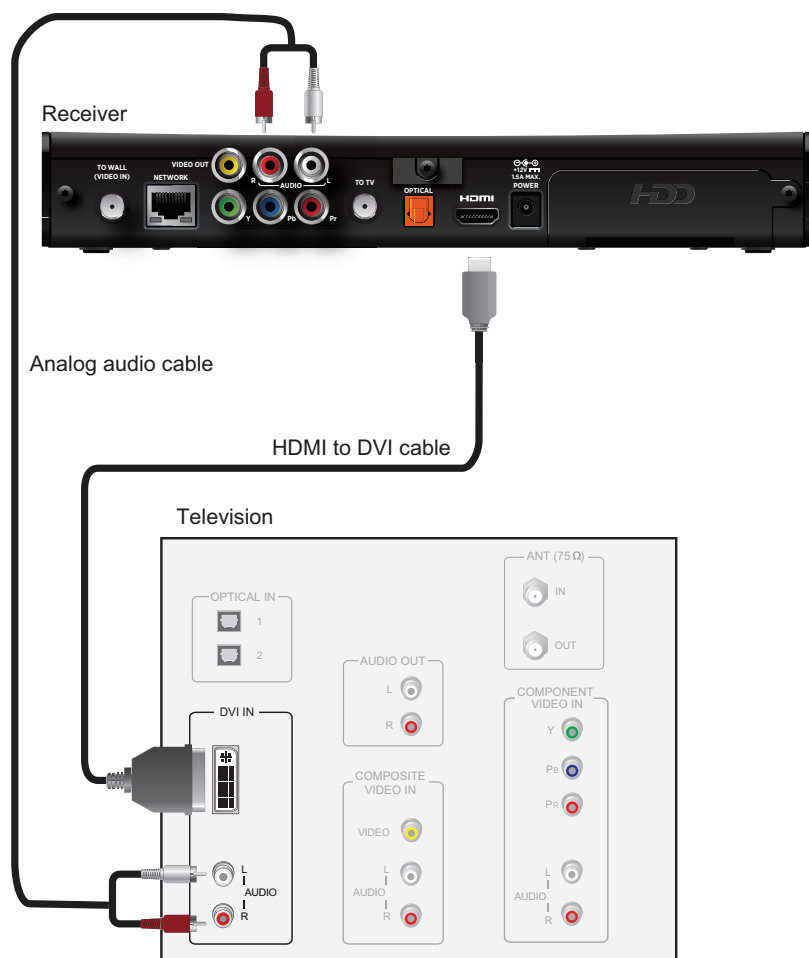


Using a DVI connection with analog audio

The HDMI connector on the receiver can provide the connection to an HDTV with a DVI input. If your HDTV has a Digital Visual Interface (DVI) connector, you need an HDMI-to-DVI cable and a separate analog audio cable.

To connect the receiver to the TV using an HDMI-to-DVI cable and analog audio cable:

1. Insert the HDMI end of the cable into the HDMI connector on the receiver.
2. Insert the 24-pin DVI end of the cable into the DVI connector on the TV.
3. Connect the color-coded analog audio cable to the AUDIO L (white) and R (red) connectors on the receiver.
4. Connect the other end of the color-coded analog audio cable to the AUDIO L (white) and R (red) connectors on the TV.



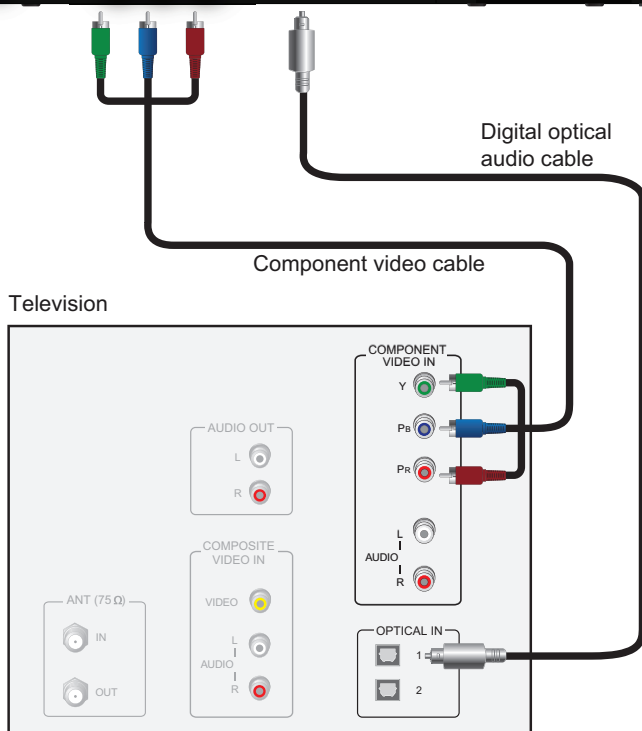
Using a component video connection with digital audio

Component video uses the Y Pb Pr (green, blue, and red) connectors to provide component video signals to an HDTV or SDTV. You must connect the audio signal separately using a digital optical audio cable.

To connect the receiver to the TV using a component video cable and digital audio cable:

1. Insert the connectors on the color-coded component video cable into the Y Pb Pr (green, blue, and red) connectors on the receiver.
2. Insert the other end of the component video cable into the COMPONENT VIDEO Y Pb Pr (green, blue, and red) connectors on the TV.
3. Connect the fiber optic audio cable to the OPTICAL connector on the receiver.
4. Connect the other end of the fiber optic audio cable to an available OPTICAL IN connector on the TV.

Receiver

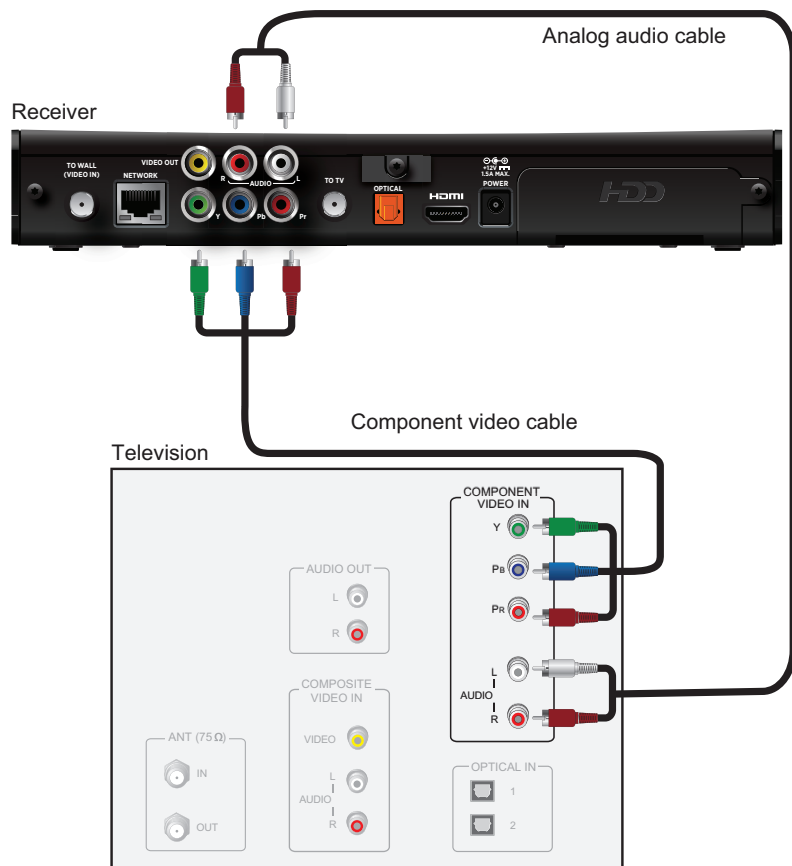


Using a component video connection with analog audio

Component video uses the Y Pb Pr (green, blue, and red) connectors to provide component video signals to an HDTV or SDTV. You must connect the audio signal separately using an analog audio cable.

To connect the receiver to the TV using a component video cable and analog audio cable:

1. Insert the connectors on the color-coded component video cable into the Y Pb Pr (green, blue, and red) connectors on the receiver.
2. Insert the other end of the component video cable into the COMPONENT VIDEO Y Pb Pr (green, blue, and red) connectors on the TV.
3. Connect the color-coded analog audio cable to the AUDIO L (white) and R (red) connectors on the receiver.
4. Connect the other end of the color-coded analog audio cable to the AUDIO L (white) and R (red) connectors on the TV.

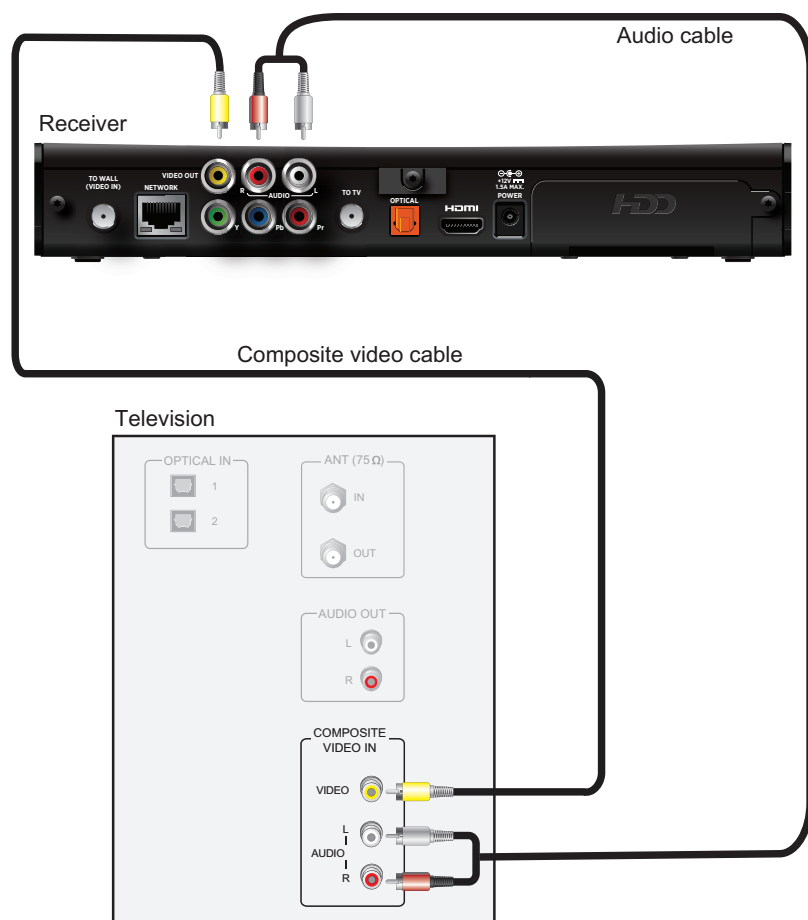


Using a composite video connection

Composite video provides the video connection to a SDTV. You must connect the audio signal separately.

To connect the receiver to the TV using a composite video cable:

1. Insert the yellow video connector on the color-coded composite video cable into the VIDEO OUT (yellow) connector on the receiver.
2. Insert the other end of the composite video cable into the VIDEO IN (yellow) connector on the TV.
3. Connect the color-coded audio cable to the AUDIO L (white) and R (red) connectors on the receiver.
4. Connect the other end of the color-coded audio cable to the AUDIO L (white) and R (red) connectors on the TV.



Using an RF coaxial connection

The RF coaxial connector provides the connection to an SDTV. The RF coaxial cable carries signals for standard video and audio.

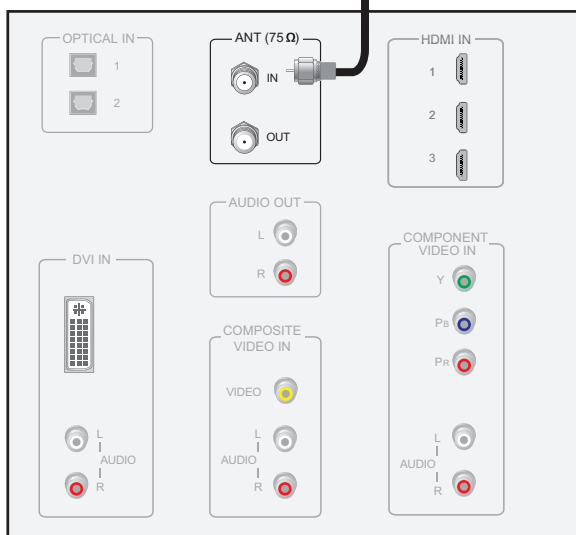
To connect the receiver to the TV using an RF coaxial cable:

1. Insert one end of the RF coaxial cable into the TO TV connector on the receiver.
2. Insert the other end of the RF coaxial cable into an available RF coaxial connector on the TV.

Receiver



Television



Note: If you use an RF coaxial cable to connect the receiver to your TV, you must tune your TV to a supported VHF output channel, which is either channel 3 or 4. Contact AT&T U-verse to find out which channel is used in your location. Consult the manuals supplied with your TV (or VCR) for additional tuning information.

Connecting the receiver to a home theater system

If your television viewing configuration includes a home theater system, you can connect the receiver directly to the home theater system receiver. The following example uses the HDMI port to provide the video and audio signals from the receiver to the home theater system.

Note: Consult the manual that came with your home theater system for information on connecting video and audio devices to the home theater receiver.

To connect the receiver to a home theater receiver using HDMI:

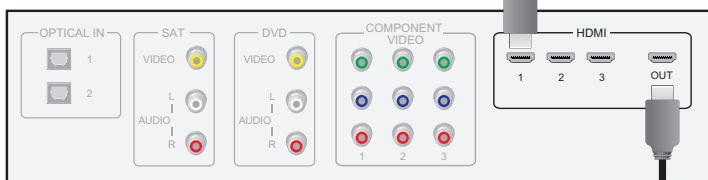
1. Insert one end of the HDMI cable into the HDMI connector on the receiver.
2. Insert the other end of the HDMI cable into an available HDMI IN connector on the home theater receiver.
3. Connect a second HDMI cable into an available HDMI OUT connector on the home theater receiver.
4. Insert the other end of the second HDMI cable into an available HDMI connector on the TV.

Receiver



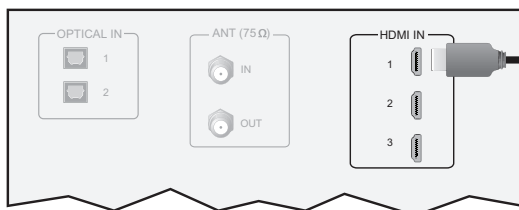
HDMI cable
to receiver

Home theater receiver



HDMI cable
to TV

Television



Plug in the receiver

Use the power adapter included in the container to provide AC power to the receiver.

To connect the receiver to a power supply:

1. Insert the 12 volt connector into the POWER connector on the receiver.
2. Insert the AC power adapter into an AC electrical outlet.
3. Verify that the LED on the AC power adapter lights green when the receiver is receiving power from the wall outlet.



Connecting to the AC power supply

To avoid possible damage to the apparatus or to a connected TV or component, all AC power cords must be plugged into properly wired outlets. As with all electrical products, connection to faulty or defective components, or the failure to connect the apparatus to a properly wired outlet, may cause sparking, property damage, or damage to any TV or other component connected to the apparatus and pose a fire hazard.

If you are in any doubt about the power supply lead, its plug or its connection, or are not certain that the electrical outlets you are using are properly wired and grounded, consult a qualified electrician before proceeding any further.

Troubleshooting and Support

This section contains troubleshooting tips and answers to common issues and questions.

Troubleshooting

Use the information in this section to identify and resolve issues with the receiver. If you need further assistance, contact AT&T U-verse.

No Picture

- Verify that the TV is turned on.
- Verify that nothing is blocking the path from your remote control to the front panel of the receiver.
- Verify that your remote control is set to operate the receiver (rather than another component in your set up). If the remote control does not operate the receiver, replace the batteries in your remote control.
- If the receiver is plugged into a switched power outlet, verify that the switch is on. Check the LED on the power supply unit. It lights green when the receiver is receiving power from the wall outlet. Verify that the **Power** light on the front panel of the receiver is green.
- Verify that all cables are properly connected.
- Verify that the **Link** light on the receiver is green to indicate that the receiver is connected to the home network. If the receiver is not connected to the home network, check the Ethernet cable to the NETWORK connector (or the coaxial cable to the TO WALL (VIDEO IN) connector) to verify that the cable to your home network is connected properly. Restart the receiver by pressing the **Power** button and holding it down for ten seconds. If necessary, after verifying the cable connections, reboot the receiver by unplugging the AC power adapter from the electrical outlet, waiting ten seconds, and then plugging it back into the electrical outlet.
- If your system includes a home theater receiver, verify that you have properly connected the device to the receiver. Verify that the **Record** light on the receiver lights red when DVR recording is in progress.
- Verify that you are using the proper input selection on your TV or home theater receiver. If you are using a component video connection, make sure that the receiver's TV display capability settings are appropriate for your TV. If you are using the HDMI connection, make sure the connection goes directly from your receiver to your TV (or your home theater receiver). If the receiver detects that the link is not secure, your receiver will not transmit a picture.

- Verify that the receiver is set to the proper screen type and resolution.

No Color or Incorrect Color

- Verify that the current TV program is broadcast in color.
- Adjust the TV color controls.
- If you are using a component video connection, check that all connectors are completely and properly connected.
- If you are using a component video connection and your HDTV has only RGB or RGB-HV connectors, you must use an adapter. You can obtain the adapter through an electronics retailer.
- Some programs may include copy protection, which means that if your receiver is connected to your HDTV through the component video connectors, the picture is downgraded to standard TV quality. To prevent this from happening, use an HDMI connection, if it is supported on your TV.

No Sound

- Verify that all audio and video cables are securely and correctly connected. If your system includes a home theater receiver, verify that you have properly connected the device to the receiver.
- Verify that the volume is turned up.
- Verify that the mute function is not on.
- Verify that you are using the proper input selection on your TV or home theater receiver.

No DVR Recording

- DVR functionality depends on your on-screen program guide. For more details, consult the information provided by AT&T U-verse.
- The DVR functions will not work if the receiver becomes overheated. The internal hard disk will be temporarily disabled. For more information about proper ventilation, see "Ventilation and location" on page 6.

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 display in your HDTV to age unevenly. This is known as screen burn-in. Refer to the owner's manual that came with your HDTV for more information about avoiding screen burn-in.

CAUTION: Do not display the same fixed images on your HDTV screen for extended periods of time.

Frequently asked questions

What is digital television?

Digital television (DTV) is a significant leap forward in television technology compared to analog television that has been widely available since the 1940s. DTV is delivered and displayed using digital encoding, similar to the way a computer operates.

By using digital technology, there is no variation in picture and sound quality from the origination point until it is displayed on your television. You always receive a high-quality picture without the wavy lines or static that you might get from a weak analog signal. Another feature of digital television is digital surround sound using Dolby Digital technology, which is the same technology used to produce the sound you hear in movie theaters.

What is standard definition television?

Standard definition television (SDTV) is basic digital television programming delivered by AT&T U-verse. Typically, the SDTV screen is the same, nearly square shape as an analog television screen. Digital images on an SDTV set are crisp and clear, and noticeably better than on a standard analog television set.

What is high definition television?

High definition television (HDTV) is an improved way to send and receive television broadcast signals. HDTV images are made up of pixels that are much smaller and closer together than those used in standard analog television, and there are millions of them. Thus, HDTV can display five to six times the detail of analog television to deliver picture quality that is much more realistic, dimensional, and precise. SDTV programs can be viewed on an HDTV.

Are local TV stations or other programmers broadcasting in HDTV?

Many local TV stations and programmers 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 and programmers, once they begin broadcasting in digital, are offering HD content from their parent network (for example, CBS, ABC, NBC, Fox, and PBS). Contact AT&T U-verse for more information.

Why aren't all the shows I watch in high definition?

A high definition program must originate in HD format and be broadcast in HD format. Having an HDTV system does not mean that everything you watch will be viewed in high definition. Getting the signal from a digital source also does not mean it is high definition.

What is HDMI and does it support Dolby Digital 5.1 audio?

HDMI (High Definition Multimedia Interface) is an uncompressed, all-digital audio/video interface. The Dolby Digital audio format can provide up to 5.1 separate channels of surround sound, and is the standard used for DVD-Video. HDMI supports standard, enhanced, or high-definition video, plus multi-channel digital audio, such as Dolby Digital audio, on a single cable.

Picture formats

What is the difference between a standard-screen and a wide-screen HDTV?

The type of screen your HDTV has (wide-screen or standard-screen) determines how the receiver displays programs on the screen. The picture format for an HDTV is a combination of aspect ratio and screen resolution and is different for standard-screen and wide-screen HDTVs.

What is aspect ratio?

An aspect ratio is the ratio of the width to the height of the TV screen. The aspect ratios differ because the television industry manufactures both standard-screen and wide-screen HDTVs to appeal to consumer viewing preferences. The two aspect ratios are as follows:

- On standard-screen (4:3) HDTVs, the programming is displayed in letterbox format in the middle of the screen. There are bars surrounding the picture.
- On wide-screen (16:9) HDTVs, the programming is displayed on the full screen.

What is the screen resolution?

The screen resolution indicates the amount of detail that the picture displays. Resolution is identified by the number of display lines on the screen. The techniques that an HDTV uses to “paint” the picture on the screen are referred to as progressive and interlaced.

With the progressive scanning method, the lines are drawn on the screen one at a time in sequential order. Progressive scanning results in a more detailed image on the screen and is also less susceptible to the flicker commonly associated with interlaced scanning. The interlaced method involves refreshing pixels in alternation, first the odd lines and then the even lines.

For advanced setup, select the screen resolution that your TV can support. Refer to your Feature Guide and HDTV owner’s manuals to choose the proper screen resolution for your setup. For example, a screen resolution of 1080i indicates that the screen shows 1080 lines on an interlaced display, and 720p indicates that the screens shows 720 lines on a progressive-scan display.

Compliance Information

This section contains regulatory and compliance information about the receiver.

Regulatory information

CAUTION: Do not attempt to modify your receiver without written authorization from the manufacturer. Unauthorized modification could void your authority to operate your receiver.

Trade Name: Pace Americas

Responsible Party: 2Wire, Inc. DBA Pace Americas

Address: 1764 Automation Parkway, San Jose, CA 95131

Phone: (408) 428-9500

Declaration of Conformity

FCC / Industry Canada Compliance

This device has been tested and certified as compliant with the regulations and guidelines set forth in the Federal Communication Commission - FCC part 15 and Industry Canada - ICES-003 Radio and telecommunication regulatory requirements / *Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.*

Manufacturer: 2Wire, Inc. DBA Pace Americas

Model(s): IPH8005, IPH8010

Part 15 of FCC Rules

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 of the device.*

This equipment 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 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 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, you are 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 the receiver.
- Connect the equipment to an outlet on a circuit that is different from the circuit used by the receiver.
- Consult your dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate this equipment.

Safety

This product is intended to be supplied with an approved listed Pace Direct Plug-In AC/DC power adapter marked Class 2 or LPS and rated 12V, 1.5A for all IPH8005 and IPH8010 series models

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