Warning! Important Safety Instructions

- Do not attempt to service the product yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - when the power-supply cord or plug is damaged
  - if liquid has been spilled on the unit or if objects have fallen into the unit
  - if the product has been exposed to rain or water
  - if the product does not operate normally by following the operating instructions
  - if the product has been dropped or the cabinet has been damaged
  - when the product exhibits a distinct change in performance
- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in a safe operating condition.

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 that may cause undesired operation.

This satellite receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note: 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, 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 dealer or an experienced radio/TV technician for help.

Notices

Attention

Telephone Line Interruption

A continuous land-based phone line connection is required for DIRECTV® Pay Per View functionality and sports subscriptions. Any calls generated by the DIRECTV® High-Definition Receiver are toll free. These calls are typically made in the middle of the night; your phone is in use for approximately 30 seconds.

Caution : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

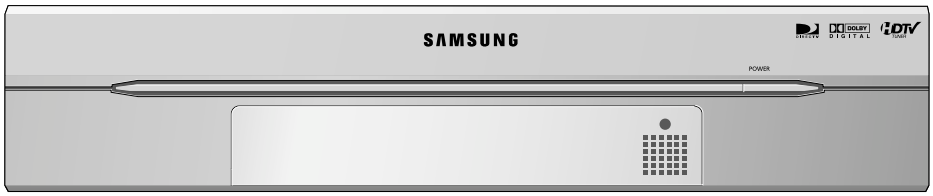
Chapter 1: Getting started

This chapter tells you everything you need to know before you start setting up and using your DIRECTV® High-Definition Receiver. It includes information on:

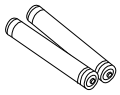
- Box contents
- Front panel controls and lights
- Back of the DIRECTV Receiver
- Installing the batteries in the remote control
- Inserting the Access Card

Box contents

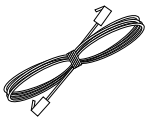
Welcome! The first step in setting up your DIRECTV Receiver is to unpack the box and familiarize yourself with its contents. If you are missing any items, contact your Samsung dealer.



DIRECTV® Receiver



AAA size batteries

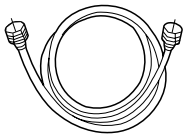


RJ-11 Telephone cord

Access Card

Remote control

DVI cable



RF coaxial cable

A/V cable

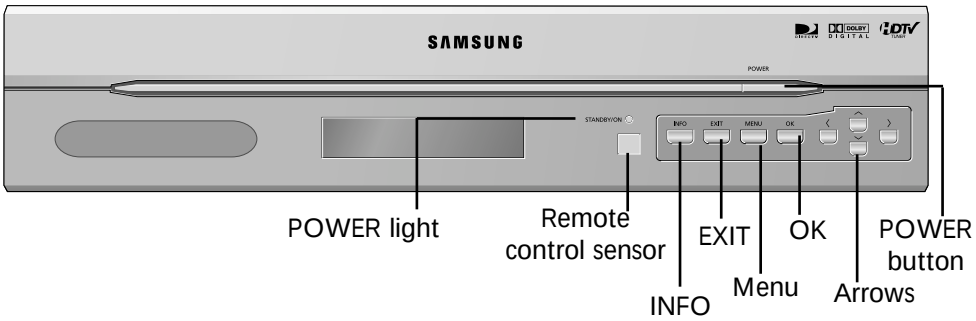
S-Video cable

VCR control cable

Component Video Cable

Front panel controls and lights

Now that you've unpacked the box, take a moment to take a look at the buttons and lights on the front of your DIRECTV® High-Definition Receiver. (You need to open the front door by holding both sides of the front panel and pulling it towards you.)



POWER button and light
Push this button to turn your DIRECTV Receiver on or off. The light glows when power is on.

Remote control sensor
Point your remote control at this sensor when operating your receiver.

INFO
Push this button to display TV program information.

EXIT
Push this button to clear on-screen displays and return to TV program viewing.

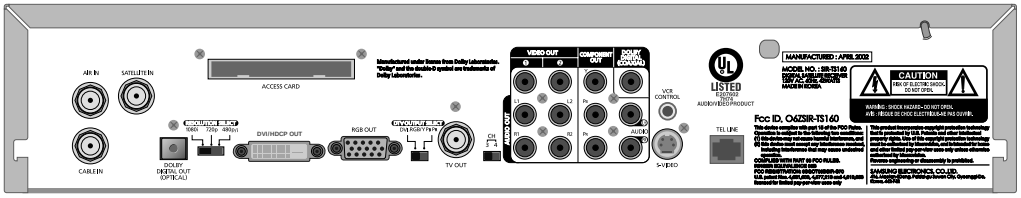
MENU
Push this button to display the Main Menu.

Arrows
Push these buttons to navigate in the on-screen Guide and menu system.

OK
Push this button to select highlighted items on Guide and Menu screens.

Back of the DIRECTV® High-Definition Receiver

The diagram below illustrates the location of the input and output jacks on the back of the receiver. These illustrations may help you as you set up your DIRECTV Receiver. Step-by-step setup instructions appear in Chapter 3.



AIR IN
The cable from an off-air TV antenna (*not* from the satellite dish) connects to this jack. Both standard analog (NTSC) and high definition digital (ATSC) program broadcasts can be received through a single antenna connected to this jack.

SATELLITE IN
The RG-6 cable from the satellite dish connects to this jack.

CABLE IN
The RG-6 cable from cable TV provider (if you have one) connects to this jack.

ACCESS CARD slot
This slot holds the Access Card (which allows you to view DIRECTV® programming).

VIDEO OUT
Using standard video cables, these jacks connect your DIRECTV Receiver to your TV or VCR.

AUDIO OUT (L1, R1, L2, R2)
Using standard stereo audio cables, these jacks provide stereo audio to your TV, VCR, or A/V receiver.

AUDIO (Lt, Rt)
Using standard stereo audio cables, these jacks provide an A/V receiver capable of decoding Dolby Prologic signals with the left, right, center, and surround audio channel signals.

S-VIDEO
This jack connects your DIRECTV Receiver to a TV or VCR that accepts S-Video input.

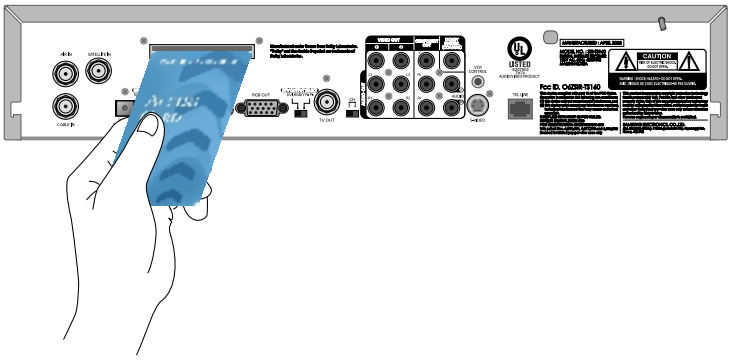
Inserting the Access Card

The next step is to insert your Access Card into your receiver. (You will not be able to view DIRECTV® programming unless the Access Card is properly inserted into the DIRECTV® High-Definition Receiver.) For some receivers, the card may already be inserted when you unpack the box.

1 Locate the ACCESS CARD slot.
The slot is located on the back of the DIRECTV Receiver.

2 Insert the Access Card.
Make sure the side with the bar code is facing down, and the arrow is pointing away from you.

The Access Card should only be removed when replacing the card with a new one provided by DIRECTV or your program provider.



Access Card
(Top view)

Chapter 3: Setting up and connecting

This chapter explains how to setup and start using your DIRECTV® High-Definition Receiver. Contents include:

- Before making connections
- Jacks and cables
- Connecting your DIRECTV Receiver
- Connecting the VCR control cable
- Turning on the DIRECTV Receiver for the first time
- Adjusting the satellite dish
- Testing your DIRECTV Receiver
- Setting up local networks
- Programming local channels
- Activating your DIRECTV account
- Upgrades

Before making connections

The next step is to make the necessary connections. Before you begin, please note the following important safety and setup tips.

Protect your components from power surges

- Always turn off and unplug your DIRECTV Receiver, TV, and any other components before connecting or disconnecting any of the cables.

Position all cables correctly to avoid audio hum or interference

- After connecting the components, please run the audio/video cables along the side of the TV set, rather than straight down the back of the TV.
- Make sure that all cables are plugged or screwed tightly into their jacks.
- Please make sure that all antennas and cables are properly grounded.
- Whenever possible, route audio and video cables away from power cords.

Protect your components from overheating

- Do not block ventilation holes in the top of the DIRECTV® High-Definition Receiver, or any other components. Make sure to position the components so that air can circulate freely.
- If you are positioning the components in a stand or rack, make sure to allow for proper ventilation.
- Do not stack components.
- If you have a stereo amplifier or receiver as a system component, please place it on the top shelf or top rack so that hot air rising from it will not flow around other components.

Make strong connections

- Make sure you securely connect cables when making connections. When a tight fit makes a secure connection difficult, you can sometimes make it easier by gently twisting the cable-end while pushing it onto the jack. (Important: never twist S-Video or Optical Digital Audio cables — they have specially shaped ends that must be correctly oriented before connecting.)

Avoid cable damage

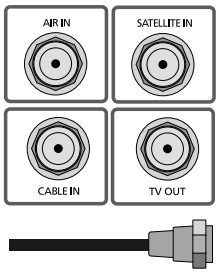
- Never kink, bend, or twist optical digital audio cables; doing so might break the fragile optical fibers they contain, rendering them unable to carry a signal.

Jacks and cables

The illustrations in this section show the various types of jacks and cables used to connect your DIRECTV Receiver.

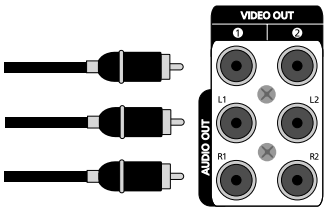
RF jacks and coaxial cable

The TV OUT RF jack on the DIRECTV Receiver uses a coaxial cable to connect to your TV or VCR. This jack provides monaural sound and a good TV picture. An RF jack is also used for standard analog (NTSC) and digital (ATSC) TV antenna connection (AIR IN), for a cable TV service connection (CABLE IN), and using an RG-6 coaxial cable, for the satellite dish (SATELLITE IN) input connection.



Audio/Video out jacks and cables (RCA-type)

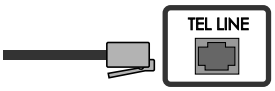
Audio/Video jacks and cables provide stereo sound and a better TV picture than RF jacks and cables. Use these jacks and cables to connect your receiver to a TV, VCR, or to other components such as a stereo receiver or amplifier. The Video out jacks provide a basic quality composite video signal using RCA-type cables. (Maximum resolution via this jack is 480i.)



Audio jacks can be used to connect the DIRECTV® High-Definition Receiver to an A/V receiver. The audio/video jacks on the back of the receiver and the audio/video cable connectors are color coded (yellow for video, red for right audio, and white for left audio).

Telephone jack and cord

The TEL LINE jack and the included telephone cord connect your DIRECTV Receiver to a phone line.

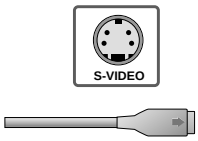


If your home does not have RJ-11 type phone jacks, please contact your phone company to get one installed.

A continuous land-based phone line connection is required for DIRECTV® Pay Per View functionality and DIRECTV SPORTS® subscriptions. Any calls generated by the DIRECTV Receiver are toll-free. These calls are typically made in the middle of the night; your phone is in use for approximately 30 seconds.

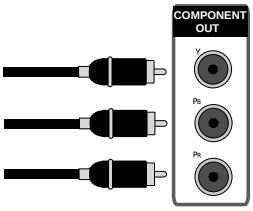
S-Video jack and cable

S-Video cables and jacks are used to connect to TVs, VCRs, and other video devices equipped with S-Video input jacks. S-Video connections provide a high-quality TV picture (better than RCA-type A/V jacks and cables). S-Video connectors must be correctly aligned before you can plug in the cable. Maximum resolution via this jack is 480i. (This cable carries the video signal only; use with audio cables for the audio signal.)

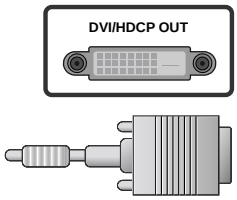


Component video jacks and cables

Component video cables and jacks (“Y, Pb, Pr”) are used to connect the DIRECTV Receiver to TVs, VCRs, and A/V receivers equipped with component video input jacks. Component video connections provide a TV picture superior to S-Video connections. Component video jacks use 3 RCA-type cables to carry the signal. This connection is capable of displaying Digital TV and HDTV video resolutions. (These cables carry video only; use with audio cables for the audio signal.)

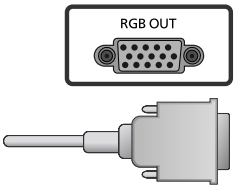


DVI jack and cable



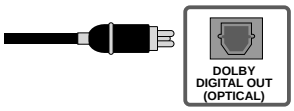
Using the DVI jack and a digital DVI cable, your DIRECTV® High-Definition Receiver can provide the unconverted digital signal from digital off-air, cable, or DIRECTV® programming directly to A/V devices that are capable of decoding the digital video information. The DVI jack uses HDCP content protection to allow you to view HD programming that has been encoded using the HDCP protection system. For the best access to HD programming at the highest available resolution, connect this to a HDTV that supports HDCP technology. (This cable carries video only; use with audio cables for the audio signal.)

RGB OUT jack and cable (cable not included)



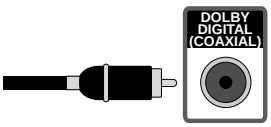
Uses a computer-standard 15-pin VGA video connection. Each main video color, Red, Green, and Blue uses a separate pin; and other pins are used to carry vertical and horizontal syncing signals. Using the RGB OUT jack and an RGB cable, you can connect your DIRECTV Receiver to devices equipped with RGB input jacks (computer monitors, for example). The RGB Out jack can carry any of the Digital TV and HDTV video resolutions. (This cable carries video only; use with audio cables for the audio signal.)

Optical digital audio jack and cable (cable not included)



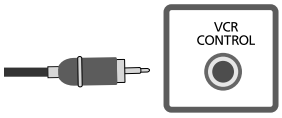
Optical digital jacks and cables use light to send digital audio data to A/V receivers equipped to receive and interpret this data. The jacks and cables must be aligned before you plug in the cable. These jacks and cables may also be covered by protective caps which you must remove before making connections.

Coaxial digital audio jack and cable (cable not included)



Coaxial digital audio jacks and cables send digital audio data to A/V receivers equipped with coaxial digital audio input jacks.

VCR control jack and cable



The VCR control jack and cable allow your DIRECTV Receiver to send signals to your VCR's remote sensor, giving you the ability to program your VCR to tape programs for you using simple on-screen controls.

Connecting your DIRECTV® High-Definition Receiver

1 Make sure your TV, A/V receiver, and DIRECTV Receiver are turned off and unplugged.

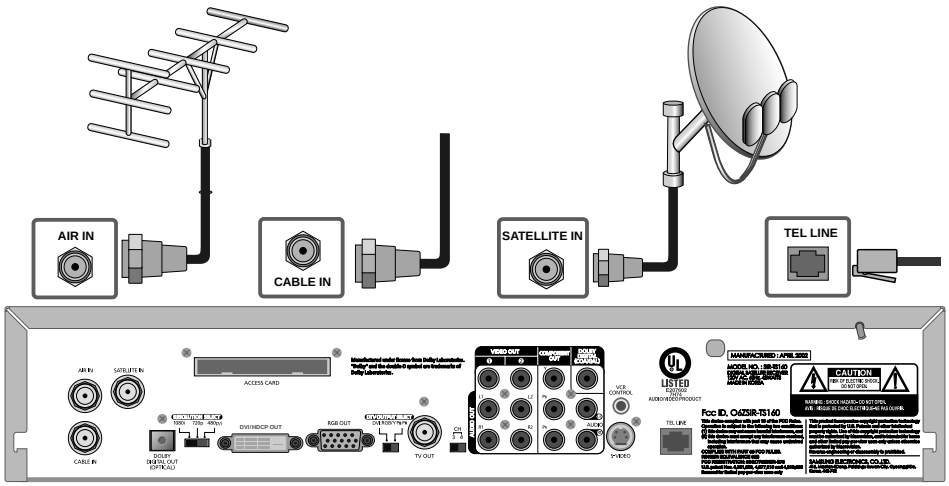
2 If you plan to use the DIRECTV Receiver to watch DIRECTV® programming, connect the RG-6 coaxial cable running from your satellite dish to the SATELLITE IN jack on the back of your DIRECTV Receiver.

3 If you plan to watch cable TV programming, connect the coaxial cable running from your cable TV system to the CABLE IN jack on the back of the DIRECTV Receiver.

4 If you plan to watch off-air TV programming (analog or digital), connect the coaxial cable running from your off-air TV antenna to the AIR IN jack on the back of the DIRECTV Receiver.

5 Connect the supplied phone cord to a telephone wall jack and to the TEL LINE jack on the back of the DIRECTV Receiver.

Note: A triple LNB multi-satellite dish antenna including a Sat C LNB is required to receive High-Definition programming from DIRECTV.



6 Make video connections to your TV.

Your DIRECTV Receiver supports the following kinds of video connections:

- DVI
- RGB
- component (Y, Pb, Pr)
- S-Video
- composite (standard A/V jacks)
- RF

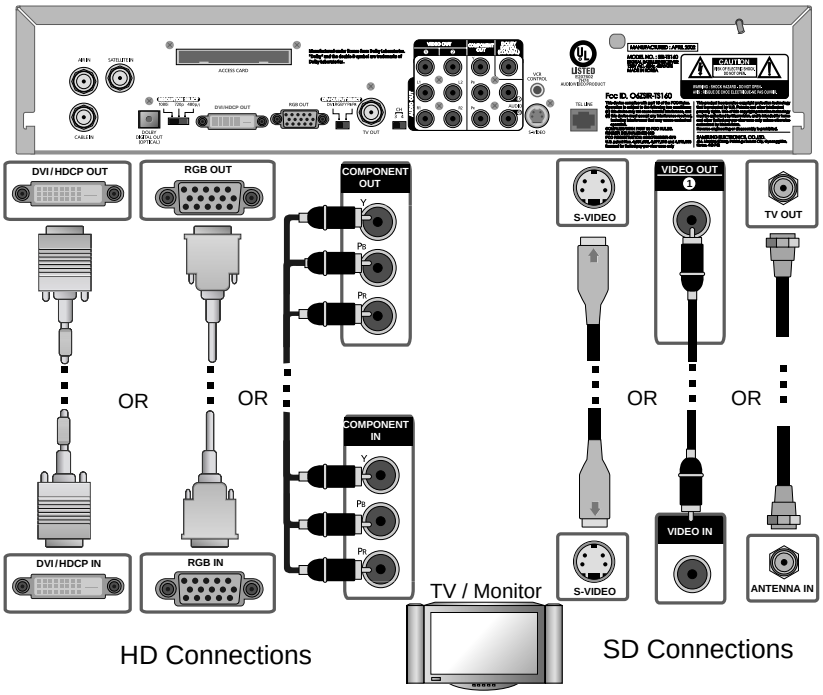
Choose the highest quality connection that your TV supports. (See Chapter 1 and page 19 for information on video connectors. See your TV owner's manual for information on your TV's capabilities.) The RGB, Component, and DVI jacks can carry any of the Digital TV and HDTV video resolutions. S-Video provides the next best video quality, followed by the standard A/V video outputs. The TV OUT RF jack provides a basic connection that carries both audio and video signals to your TV.

Since the RGB, Component, and DVI jacks do not output the 480i video format, do not connect a standard definition TV capable of displaying only 480i to the RGB, Component or DVI jacks.

Due to copyright restrictions, you may not be able to view some high definition programs in high definition format using this product. Whenever possible you should connect both HD (RGB, Component, DVI) and SD (S-Video, A/V, RF) interfaces to permit SD viewing of programs if HD viewing is restricted.)

For the best access to high-definition programming at the highest available resolution broadcast by DIRECTV, connect the DVI/HDCP output to the corresponding DVI/HDCP input that supports High-bandwidth Digital Content Protection (HDCP) technology on a High-Definition Television (HDTV) or HDTV Monitor. Please check your HDTV or HDTV Monitor user manual or contact the television manufacturer to find out if your HDTV or HDTV Monitor supports HDCP.

Whichever connection you choose, connect one end of the video cable(s) to the appropriate OUT jack(s) on the back of the DIRECTV® High-Definition Receiver. Connect the other end of the video cable(s) to the video input(s) on your TV.



7 Make audio connections to your TV or A/V receiver.

Your DIRECTV® High-Definition Receiver supports the following kinds of audio connections:

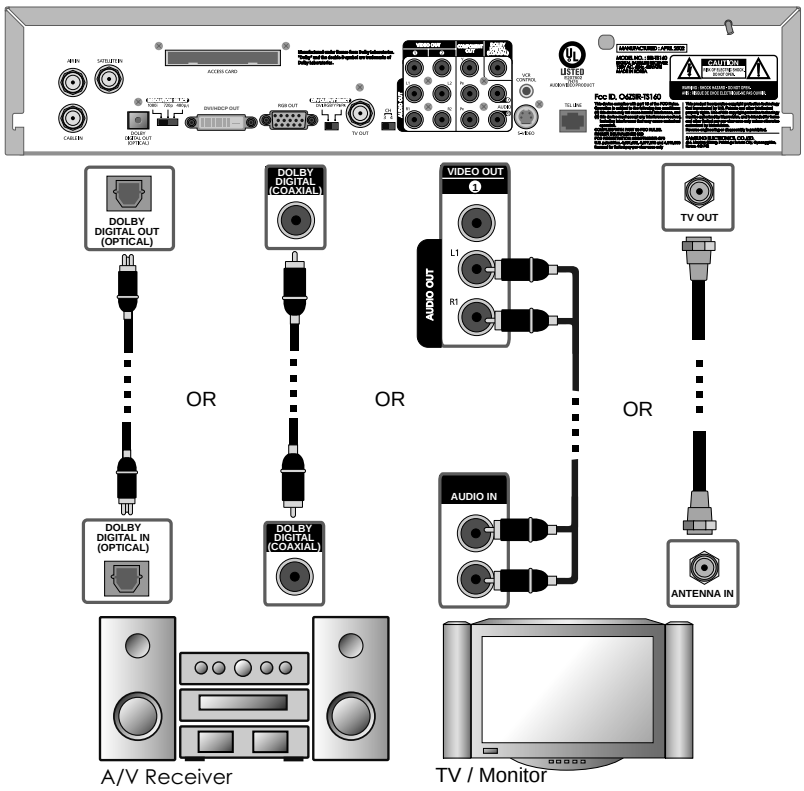
- optical digital
- coaxial digital
- standard A/V audio jacks
- RF

Choose the highest quality connection that your TV (or A/V receiver, if you are using one) supports (see your TV or A/V receiver owner's manual for information). The optical and coaxial digital audio outputs provide the highest quality audio (see Dolby Digital 5.1 in Chapter 1). The standard A/V audio jacks provide the next best audio quality. The TV OUT RF jack provides a basic connection that carries both audio and video signals to your TV.

Whichever connection you choose, connect one end of the audio cable(s) to the appropriate OUT jack(s) on the back of the DIRECTV Receiver. Connect the other end of the audio cable(s) to the audio input(s) on your TV.

Note: If you use the OPTICAL DIGITAL AUDIO OUT jack, remove the protective plug from the jack before making connections.

RGB, Component, DVI and S-Video jacks do not output audio.

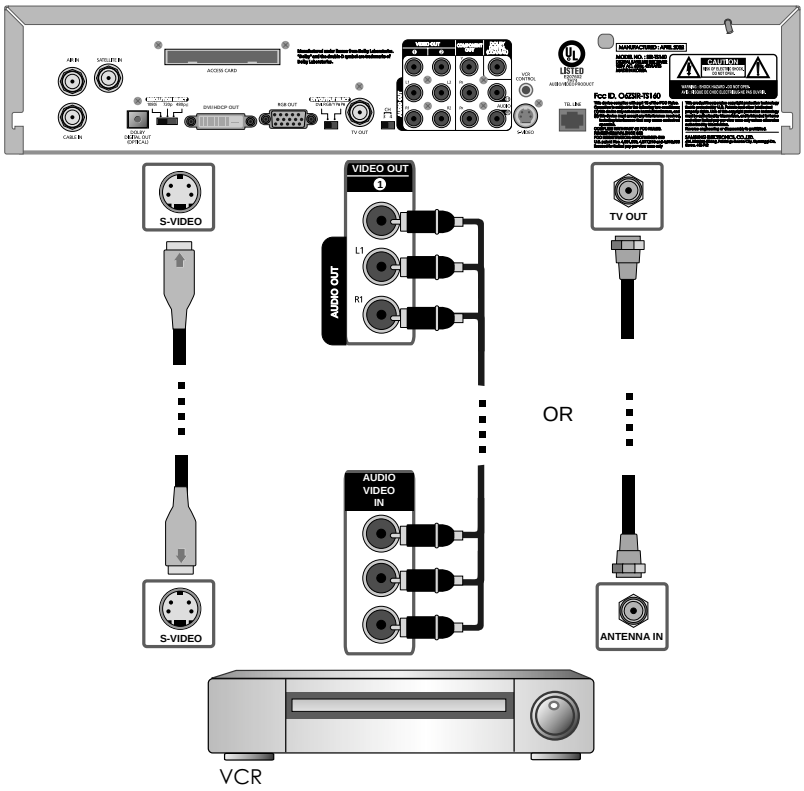


8 (Optional) connect your VCR.

To connect your VCR to your DIRECTV® High-Definition Receiver, you can use

- S-Video jack for video with the A/V audio jack for audio, or
- A/V jacks for both audio and video, or
- TV OUT RF jack

Choose the best quality connection that is supported by your VCR (and that you did not already use to connect your TV). The S-Video jack provides the highest quality video for your VCR connection. The A/V jacks provide the next best video quality and high quality audio for your VCR. The TV OUT RF jack provides a basic connection that carries both audio and video signals to your VCR.

Whichever connection you choose, connect one end of the audio and video cables to the appropriate OUT jack(s) on your DIRECTV Receiver. Connect the other end of the audio and video cable(s) to the audio and video inputs on your VCR.

Finally, connect your VCR to your TV by connecting audio and video output jacks on your VCR to available audio and video input jacks on your TV.