

SAMSUNG

SIR-TS360



DIRECTV® HD Receiver



Owner's Manual

Warning! Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
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.

This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.	
This symbol alerts you that important literature concerning operation and maintenance have been included with this product.	

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

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.

Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

 **Always be careful when using this product. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your DIRECTV® HD Receiver.**

Important Safety Information

- 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, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a used, caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.



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 you should use the Telephone line cord which is supplied with the machine.

If you are replacing it with the other vendor's part, it should be minimum AWG #26 or larger gage.

Notices

Attention

Telephone Line Interruption

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

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.

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Program Recording Restrictions

All other taping is expressly prohibited. Some programming may not be taped. An additional taping fee may be applied. Call your program provider for details.

High definition broadcast copyright limitations

Due to copyright restrictions, you may not be able to view some high definition programs in high definition format using this product. (Also, whenever possible you should connect both HD and SD interfaces to permit SD viewing of programs if HD viewing is restricted due to copyright restrictions.)

Owner's Record

The model number, serial numbers, Access Card Number and Receiver ID are located on the rear panel of the DIRECTV® HD Receiver. The number for the Access Card is on the back of the card and on the carton label. Record these numbers for reference when calling your sales or service representative regarding this product.

Model Number: _____

Serial Number: _____

Access Card Number: _____

Receiver ID: _____

Customer Support

For DIRECTV® Programming

For subscription information, or to resolve problems related to programming, call: DIRECTV at 1-800-DIRECTV (1-800-347-3288) or visit the DIRECTV Web site (DIRECTV.com).

For Installation

To arrange for the installation of your DIRECTV® HD Receiver, call the dealer from whom you purchased your system.

For Hardware

To resolve problems related to this DIRECTV® HD Receiver, call Samsung Customer Support at 1-800-522-2946.

SAMSUNG DIGITAL SATELLITE RECEIVER

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SAMSUNG CUSTOMER SERVICE
400 VALLEY ROAD, SUITE 201, MT ARLINGTON, NJ 07856,
TEL: 973-601-6000, FAX: 973-601-6001
1-800-522-2946 and SAMSUNGUSA.COM

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Chapter 1: Technical overview

This chapter explains the technical capabilities of the DIRECTV® HD Receiver, and provides background information on digital television. Topics covered here include:

- What are Analog TV, Digital TV, NTSC, ATSC, SDTV, and HDTV?
- What kinds of TV programming can I watch with the DIRECTV® HD Receiver?
- What equipment is required to view HDTV programming?
- Resolution and interlacing
- Video output options
- Aspect ratio
- Screen formats
- Dolby® Digital 5.1

What are Analog TV, Digital TV, NTSC, ATSC, SDTV, and HDTV?

Analog TV

Analog TV is the TV you're probably most familiar with. Most of the TV broadcasts you receive via a standard off-air antenna or from your local cable company are analog TV broadcasts.

Digital TV

Digital television (sometimes called DTV) is a newer method of broadcasting TV signals that delivers higher quality audio and video. Digital TV is broadcast in two sets of formats, SDTV and HDTV.

NTSC

NTSC (National Television Standards Committee) refers to the group that first established the standards used for conventional analog television broadcasts and TV equipment.

ATSC

ATSC (Advanced Television Systems Committee) is the group who have been working to establish the standards for digital television broadcasts and digital television equipment — including both SDTV and HDTV.

SDTV

SDTV is a digital TV format that provides a high quality picture at resolutions that can be displayed on standard TV sets (see more on resolutions later in this chapter).

HDTV

HDTV is a digital TV format that provides the highest quality picture at resolutions that can be displayed on computer monitors and HDTV-ready TV displays.

What kinds of TV programming can I watch with the DIRECTV® HD Receiver?

The DIRECTV® HD Receiver provides you with the ability to receive television programs from a wide range of sources, and to display them on virtually any TV or monitor.

Using the Air In, Satellite In, and Cable In jacks on the back of the DIRECTV® HD Receiver, you can receive television programs from:

- HDTV and SDTV DIRECTV® programming via digital satellites (through the Satellite In jack).
- Local off-air analog television broadcasts (NTSC), and local off-air digital broadcasts (ATSC) (through the Air In jack).
- Unscrambled analog cable TV services for unscrambled cable programming (through the Cable In jack).

To view cable TV or DIRECTV® programming, programming subscriptions are also required.

What equipment is required to view HDTV programming?

To view HDTV programming, in addition to your DIRECTV® HD Receiver, you will need an HDTV monitor or television set.

For DIRECTV® High-Definition programming, you'll also need an oval triple LNB multi-satellite dish, including a Sat C LNB (a dish that can receive signals from all 3 of the satellite locations providing DIRECTV programming).

To receive analog and digital off-air television broadcasts, you'll need an off-air antenna.

To receive cable TV programming, you'll need a cable TV connection (provided by your local cable TV service provider).

Resolution and interlacing

Two of the elements that determine the quality of a TV picture are resolution and interlacing.

- **Resolution:** For TV equipment and broadcasts, resolution is defined by the number of horizontal lines displayed to make up each frame of a video image. The more lines of resolution used to draw each frame of video, the more detailed and sharp the picture will be. Standard TV resolution uses 480 horizontal lines to make up each frame of video. HDTV uses either 720 lines, or 1080 lines to make each video frame.
- **Interlacing:** When TVs display video, they display a new video frame at a rate that is faster than your eye can see (from 24 to 60 frames per second, depending on the TV and broadcast). Interlacing refers to whether each of those frames contains all of the lines of video for each frame or every other line. Interlaced signals take every other line from 2 frames of video (each lasting 1/60th of a second), and combine them into one frame lasting 1/30th of a second. In this way, interlacing tricks your eye into thinking it is seeing twice the resolution that is actually being displayed. In non-interlaced video, (referred to as progressive scan video), video frames are displayed every 1/60th of a second containing all of the lines of video information for each frame.

The specifications for video resolutions are usually stated by giving the number of horizontal lines, followed by either the letter i, for interlaced video, or p for progressive scan video. Most standard TV broadcasts are 480i (480 lines of interlaced video resolution). Some DVDs and non-HDTV digital TV broadcasts use 480p. The ATSC specification for HDTV broadcasts and equipment requires either 1080i or 720p. While there is some debate as to whether it is better to have more lines that are interlaced (1080i), or fewer lines that are progressively scanned (720p), it is generally accepted that 1080i is the highest quality video format.

Video output/input options

The DIRECTV® HD Receiver is able to receive broadcasts in any of the resolutions mentioned above. It can also display programs on TVs capable of displaying any of those resolutions.

To set up your DIRECTV® HD Receiver to handle the combinations of incoming video formats and TV display capabilities, you simply set the Resolution button on the front panel to match the highest resolution your TV is capable of displaying. (If you're not sure about your TV's resolution, see your TV's manual for this specification.)

The DIRECTV® HD Receiver will then do the appropriate conversion from input signal format to display format.

The table below details the results you get with each combination of input signal format and TV display format.

- HDTV and SDTV DIRECTV® programming via digital satellites (through the Satellite In jack).
- Local off-air analog television broadcasts (NTSC), and local off-air digital broadcasts (ATSC) (through the Air In jack).
- Unscrambled analog cable TV services for unscrambled cable programming (through the Cable In jack).
- Various external input signals received through the external input terminal (i.e., DVD, DVHS)

The DIRECTV® HD Receiver provides several display formats as shown in the following table. It also shows the formats available at each output terminal.

With the Resolution button set to :	Input Signal format	Output Display format
1080i mode	all formats	1080i
720p mode	all formats	720p
480p/i mode	all formats	480p/i
Native 1 mode	480p/i	480p/i
	720p	720p
	1080i	1080i
Native 2 mode	480p/i	480p/i
	720p	1080i
	1080i	
Native 3 mode	480p/i	480p/i
	720p	720p
	1080i	

Output Connection	Available Formats
YPbPr	1080i/720p/480p/i/Native1 / Native2/ Native3
RGB	1080i/720p/480p/i/Native1 / Native2/ Native3
DVI	1080i/720p/480p/i/Native1 / Native2/ Native3
S-Video	480i
Video	480i

When you press the Resolution button on the front panel or the remote control, the display format will be switched between 1080i, 720p, 480p/i, Native 1, Native 2 and Native 3. All input signal formats in the 1080i, 720p and 480p/i modes will be converted to the selected display format. The output display format in the Native 1, Native 2 and Native 3 modes will be automatically changed according to the input signal format as shown in the above table.

For example, if you have a standard resolution TV, you would set the Resolution button to 480p/i.

Then programs received by the DIRECTV® HD Receiver at any resolution would be converted to a resolution of 480p or 480i for display on your television.

This information can also be helpful when deciding how to connect your TV and VCR to the DIRECTV® HD Receiver. For example, if you have a High Definition TV capable of displaying 1080i, and a standard VCR, you would want to use the COMPONENT, RGB or DVI jacks (whichever your TV accepts) to connect the DIRECTV® HD Receiver to your TV. You would then use the VIDEO OUT jack to connect your VCR.

This will provide each device with the highest quality video signal it is capable of using.

NOTE

- *If you connect your TV to one of the composite video out jacks (VIDEO OUT, S-VIDEO OUT), and you view a HD program with the DIRECTV® HD Receiver's RESOLUTION button set to either 720p or 1080i, the picture will be slightly cropped at the top and bottom (the very top and bottom edges of the image will not appear on the TV screen).*

To avoid this problem, set the RESOLUTION button to the 480p/i position if your TV is connected to one of the composite video outputs. Also, 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 video to the RGB, COMPONENT or DVI jacks. If you use the DVI jack, for the best access to HD programming, connect the DVI/HDCP output to the corresponding DVI/HDCP input on your HD Television (HDTV) or HDTV Monitor that supports High-bandwidth Digital Content Protection (HDCP) technology.

Aspect ratio

In addition to resolution and interlacing, HDTV is also defined by the aspect ratio of its broadcasts.

Aspect ratio means the shape of the screen as defined by the ratio of the screen's width to its height. For analog TV and SDTV, the aspect ratio is 4 units wide by 3 units high (usually written 4:3).

This is the familiar shape of conventional TVs — slightly wider than they are tall.

For HDTV broadcasts, the aspect ratio is 16:9 (nearly twice as wide as it is tall).

This is, not coincidentally, more like the shape of movies shown in theaters.

This makes HDTV an ideal format for broadcasting and viewing movies on a TV.

But what happens if you are watching a nearly square-shaped 4:3 broadcast on a rectangular 16:9 TV, or vice-versa? The DIRECTV® HD Receiver allows you to choose from a variety of screen formats to help you deal with those scenarios.

Screen formats

To deal with the mismatches that can occur between the shapes of TVs and the aspect ratios of program broadcasts, the DIRECTV® HD Receiver provides you with a set of screen format controls.

These controls allow you to pick a format to use for both 4:3 TVs showing 16:9 programs, and for 16:9 TVs showing 4:3 programs.

Here is an explanation of the options. (Details for setting this preference are included in Chapter 7.)

4:3 TVs showing 16:9 programs


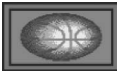



For a standard 4:3 TV showing a widescreen program, the program is too wide to fit on the screen. The DIRECTV® HD Receiver gives you 4 ways to fix the problem:

- **Letter box:** If you choose the letter box format, the 16:9 image is shrunk until the entire width of the program fits on your TV. Since the aspect ratio of the program is maintained, the image is no longer tall enough to fill your screen, so black/gray bars are seen at the top and bottom of the screen.
- **Full:** If you set your DIRECTV® HD Receiver to the Full setting, 16:9 images are stretched to fit the height of the screen, like in the Letter box format. But instead of applying black/gray bars to the top and bottom of the screen, the program image is stretched vertically until it is tall enough to fill your screen. Your entire TV screen is full, but the program images are a little stretched to compensate for the program – to – screen mismatch.
- **Zoom 1:** This format stretches the top and bottom edges of the image at an equal ratio, keeping the 16:9 aspect ratio intact. The left and right portions of the image will be cut.
- **Zoom 2:** This format breaks the 16:9 aspect ratio and stretches the top and bottom edges more than the left and right edges of the image to view less distorted image than the one in Zoom 1. The top, bottom, left and right portions of the image will be cut, but less than Zoom 1.



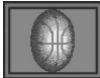




16:9 TVs showing 4:3 programs

For a wide screen 16:9 TV showing a standard 4:3 TV program, the program is too tall to fit on the screen. The DIRECTV® HD Receiver gives you 5 ways to fix the problem:


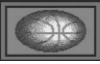




- **Pillar box:** If you choose the pillar box format, the 4:3 image is shrunk until the entire height of the program fits on your TV. Since the aspect ratio of the program is maintained, the image is no longer wide enough to fill your screen, so black/gray bars are seen at the left and right edges of the screen.

- **Full:** If you set your DIRECTV® HD Receiver to the Full setting, 4:3 images are stretched to fit the width of the screen, like in the Pillar box format. But instead of applying black/gray bars to the sides of the screen, the program image is stretched horizontally until it is wide enough to fill your screen. Your entire TV screen is full, but the program images are a little stretched to compensate for the program – to – screen mismatch.

- **Zoom 1:** This format stretches the left and right edges of the image at an equal ratio, keeping the 4:3 aspect ratio intact. The top and bottom portions of the image will be cut.

- **Zoom 2:** This format breaks the 4:3 aspect ratio and stretches the left and right edges more than the top and bottom edges of the image to view less distorted image than the one in Zoom 1. The top, bottom, left and right portions of the image will be cut, but less than Zoom 1.

- **Panorama:** This format stretches the left and right edges of the image at a certain ratio, keeping the center of the image intact. The center of the screen will keep the equal ratio and the expansion ratio increases toward the horizontal direction at both sides.


These 2 tables summarize your screen format options:

If your display is a 4:3 format TV or monitor, your format options include these:	
For 4:3 program signals:	 Full
For 16:9 program signals:	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  *Letter box </div> <div style="text-align: center;">  Full </div> <div style="text-align: center;">  Zoom 1 </div> <div style="text-align: center;">  Zoom 2 </div> </div>

NOTE

- Letter box is not available through the composite output jacks (Video Out, S-Video Out, and TV Out jacks) when the RESOLUTION SELECT button is set to 1080i and the source signal is 1080i.

If your display is a 16:9 format TV or monitor, your format options include these:	
For 4:3 program signals:	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Pillar box </div> <div style="text-align: center;">  Full </div> <div style="text-align: center;">  Zoom 1 </div> <div style="text-align: center;">  Zoom 2 </div> <div style="text-align: center;">  Panorama </div> </div>
For 16:9 program signals:	 Full

For either of these scenarios, the option you choose is a matter of preference. The FORMAT button on your remote control allows you to cycle through the formats available for your display type.

NOTE

- You can set the color of the horizontal or vertical bars displayed for Letter box and Pillar box screen formats to either black or gray. See Chapter 7 for details.

Dolby® Digital 5.1

Just as the ATSC has specified 1080i or 720p as the video formats required for HDTV, they have also specified a recommended audio format: Dolby Digital 5.1.

Dolby Digital 5.1 provides 5 discrete channels of digital audio information for use by A/V receivers capable of decoding the 5.1 channel signal.

The audio signals are broken into left-front, center, right-front, left-rear, right-rear and a low-frequency effects channel (designed for subwoofers).

The result when connected to a compatible Dolby Digital 5.1 channel A/V receiver and speaker setup is a home theater experience that provides much of the dynamic range, 360-degree imaging, and sonic excitement of a real theater.

Not all Digital TV programming is broadcast using Dolby Digital 5.1.

For DIRECTV® programming, you can see which programs are broadcast using this high-quality audio standard by checking the Info Banners and Program Guides for the Dolby Digital icon (DDP).

To take full advantage of the Dolby Digital 5.1 capabilities of the DIRECTV® HD Receiver, you will need a Dolby Digital 5.1 compatible A/V receiver connected to the DIRECTV® HD Receiver through the Dolby Digital Optical jack or the Dolby Digital Coaxial jack.

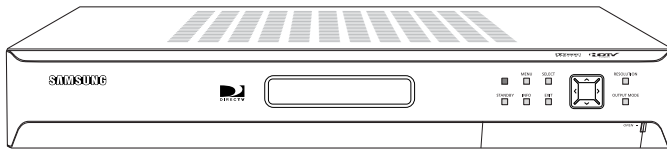
Chapter 2: Getting started

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

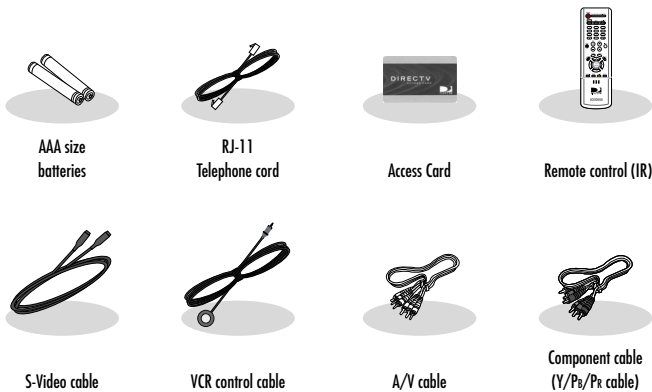
- Box contents
- Front panel controls and lights
- Back of the DIRECTV® HD Receiver
- Installing the batteries in the remote control
- Inserting the Access Card

Box contents

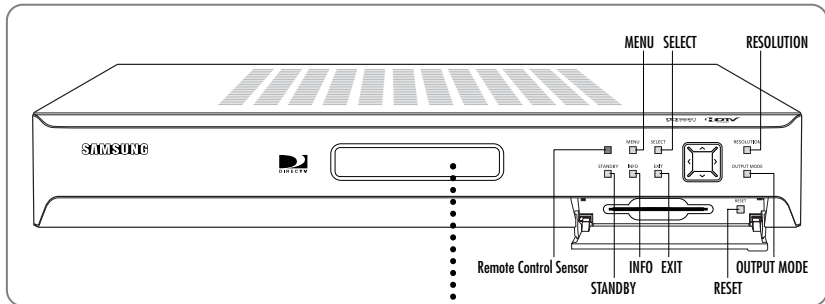
Welcome! The first step in setting up your DIRECTV® HD Receiver is to unpack the box and familiarize yourself with its contents. If you are missing any items, contact your dealer.



< DIRECTV® HD Receiver >



Front panel controls and lights



Display Window

Displays information about your Digital Satellite Receiver.

Remote Control Sensor

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

STANDBY

Turns your Digital Satellite Receiver on and off.

MENU

displays the Main Menu.

INFO

displays TV program information.

SELECT

selects highlighted items on Guide and Menu screens.

EXIT

clears on-screen displays and return to TV program viewing.

ARROW

The arrow buttons navigate in the on-screen Guide and menu system.

RESOLUTION

Sets the video resolution output by the DIRECTV® HD Receiver to match the resolution of your TV or monitor (480p/i). Affects the signal output from the COMPONENT OUT, RGB OUT, and DVI/HDCP OUT jacks.

OUTPUT MODE

This button determines the signal type output by either DVI/HDCP OUT and RGB OUT, or COMPONENT OUT jacks.

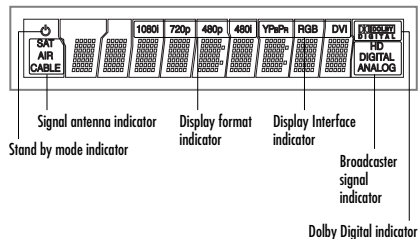
Access Card slot

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

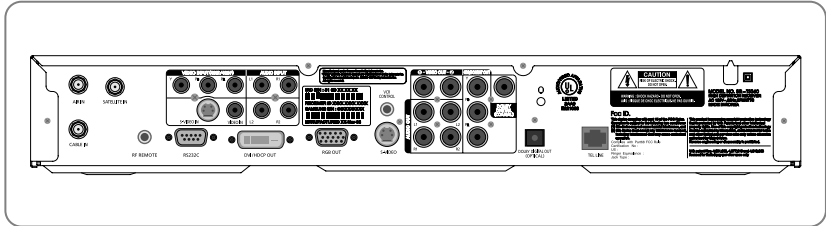
RESET

Resets your Digital Satellite Receiver.

< Display Window >



Back of the DIRECTV® HD Receiver



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.

CABLE IN

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

SATELLITE IN

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

RF REMOTE (Optional)

Inputs remote control signals using the RF receiver.

VIDEO INPUT (480p/i)

Connect an optional component video source, such as a DVD player.

AUDIO INPUT(L1, R1, L2, R2)

Inputs audio signals to your DIRECTV® HD Receiver from TV, digital monitor, DVD, VCR, or other audio equipment.

NOTE

Connect the audio jack to L1 and R1 when using the component terminal (Y, P₃ or P₃).

Connect the audio jack to L2 and R2 when using the S-Video or Video terminal.

RS232C

This is used to connect your receiver to a computer for reading and loading data information.

DVI/HDCP OUT

Using a digital DVI cable, this jack connects your DIRECTV® HD Receiver to a TV that accepts the unconverted DVI signal from a HD digital broadcast (from satellite, or antenna). Supports HDCP content protection. (For the best access to HD programming, connect this output to the corresponding DVI/HDCP input that supports HDCP technology on your HDTV or HDTV Monitor.)

RGB OUT

Using an RGB monitor cable, this jack connects your DIRECTV® HD Receiver to a TV that accepts HD RGB video input.

VCR CONTROL

The VCR control cable connects to this jack.

S-VIDEO

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

VIDEO OUT

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

AUDIO OUT(L1,R1,L2,R2)

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

COMPONENT OUT(Y,P,S)

Using standard A/V cables, these jacks connect your DIRECTV® HD Receiver to a TV or VCR that accepts HD component video input.

DOLBY DIGITAL(COAXIAL)

Using a coaxial digital audio cable, this jack allows you to connect your DIRECTV® HD Receiver to an A/V receiver that accepts coaxial digital audio input.

DOLBY DIGITAL OUT(OPTICAL)

Using an optical digital audio cable, this jack allows you to connect your DIRECTV® HD Receiver to an A/V receiver that accepts optical digital audio input.

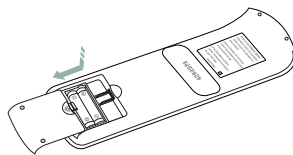
TEL LINE

A telephone line connected to this jack allows you to order pay per view programming.

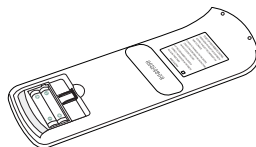
Installing the batteries in the remote control

You've unpacked the receiver and reviewed its front and back panels. Now it's time to start setting up. The first step is to install the batteries in your remote control.

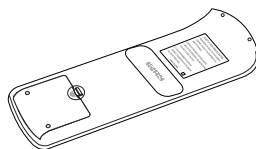
- 1 Unlatch the battery compartment cover on the back of remote control.



- 2 Insert 2 AAA batteries as shown, making sure the + and - ends of each battery line up with the corresponding marks in the battery compartment.



- 3 Snap the cover back onto the remote control.



- 4 Test the remote control to make sure the batteries have been inserted correctly. Press the MODE button repeatedly until the DIRECTV mode is selected and make sure the button lights up. If it does not light up, check the orientation of the batteries.

NOTE

Alkaline batteries are strongly recommended for this remote control.

Inserting the Access Card

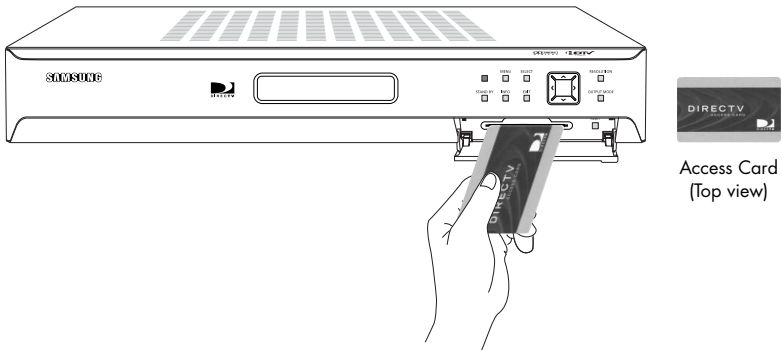
The next step is to insert your Access Card into your receiver. (You will not be able to view DIRECTV® programming unless the Access Card is properly inserted into the DIRECTV® HD Receiver.)

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 front of the DIRECTV® HD 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® HD Receiver.

Contents include:

- Before making connections
- Jacks and cables
- Connecting your DIRECTV® HD Receiver
- Connecting the VCR control cable
- Turning on the DIRECTV® HD Receiver for the first time
- Adjusting the satellite dish
- Testing your DIRECTV® HD 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® HD 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® HD 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

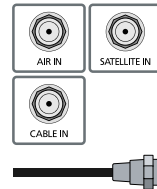
- Never kink, bend, or twist optical digital audio cables; doing so might break the fragile optical fibers they contain, rendering them unable to carry a signal.

Jacks and cables

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

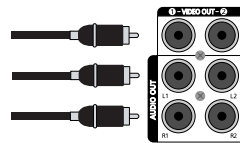
ANTENNA terminals (cable not included)

Use AIR IN and CABLE IN terminals to receive a signal from VHF/UHF antennas or your cable system using an RG-6 coaxial cable, SATELLITE IN terminals can be used to connect Satellite dish input.



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

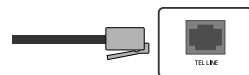
Use these jacks and cables to connect your receiver to a TV, VCR, or to other components such as a stereo receiver or amplifier. The Video out jacks provide a basic quality composite video signal using RCA-type cables. Audio jacks can be used to connect the DIRECTV® HD Receiver to an A/V receiver. The 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® HD 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 subscriptions. Any calls generated by the DIRECTV® HD Receiver are toll-free.

These calls are typically made in the middle of the night; your phone is in use for approximately 30 seconds.

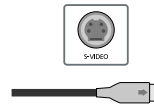


S-Video jack and cable

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.)

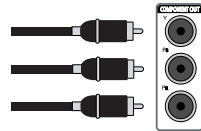


Component video jacks and cables

Component video cables and jacks ("Y, Pb, Pr") are used to connect the DIRECTV® HD 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.

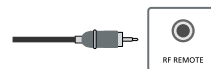
(These cables carry video only; use with audio cables for the audio signal.)



RF REMOTE jack and cable

RF REMOTE jack and cable are used to operate the Digital Satellite Receiver when installed in a cabinet or from another room in your house using the RF remote control.

Use this jack and cable to connect the RF Receiver to the RF REMOTE jack of the Digital Satellite Receiver.

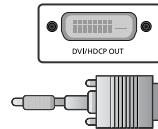


DVI jack and cable (cable not included)

Using the DVI jack and a digital DVI cable, your DIRECTV® HD 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.)

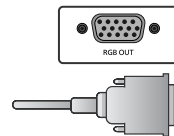
**RGB OUT jack and cable (cable not included)**

RGB OUT jack and cable use 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 sync signals.

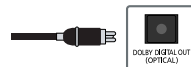
Using the RGB OUT jack and an RGB cable, you can connect your DIRECTV® HD Receiver to devices equipped with RGB input jacks (computer monitors, for example).

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 jack and cable use light to send digital audio data to A/V receivers equipped to receive and interpret this data. The jack and cable must be aligned before you plug in the cable.

The jack and cable may also be covered by protective caps which you must remove before making connections.



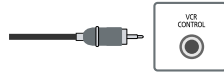
Coaxial digital audio jack and cable (cable not included)

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® HD 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.



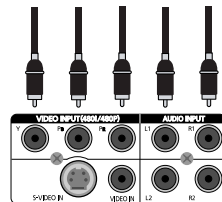
Audio/Video input jacks and cables (RCA-type)

Use these jacks and cables to connect your receiver to a TV, VCR, DVD, or to other components such as a stereo receiver or amplifier.

The Video input jacks provide a high quality composite video signal using RCA-type cables.

Audio jacks can be used to connect the DIRECTV® HD Receiver to an A/V receiver.

The audio/video input 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). Receivable resolution modes are 480p/i.

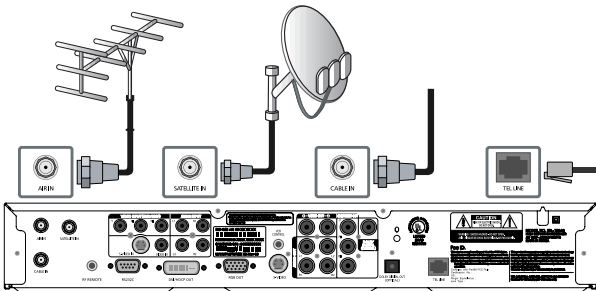


Connecting your DIRECTV® HD Receiver

- 1 Make sure your TV, A/V receiver, and DIRECTV® HD Receiver are turned off and unplugged.
- 2 If you plan to use the DIRECTV® HD 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® HD 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® HD 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® High-Definition Receiver.
- 5 Connect the supplied phone cord to a telephone wall jack and to the TEL LINE jack on the back of the DIRECTV® HD Receiver.

NOTE

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



- 6 Make video connections to your TV. Your DIRECTV® HD Receiver supports the following kinds of video connections:
 - DVI
 - RGB
 - component (Y, Pb, Pr)
 - S-Video
 - composite (standard A/V jacks)

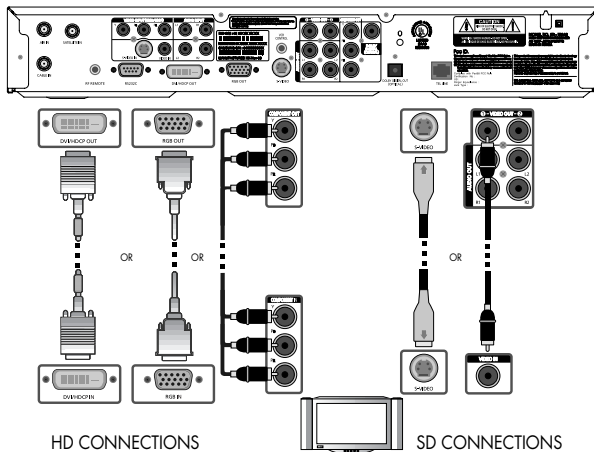
Choose the highest quality connection that your TV supports. (See Chapter 1 for information on video connectors. See your TV owner's manual for information on your TV's capabilities.) The RGB, Component, and DVI jacks can carry any of the Digital TV and HDTV video resolutions. S-Video provides the next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

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 and 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) 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 HD 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® HD Receiver. Connect the other end of the video cable(s) to the video input(s) on your TV.



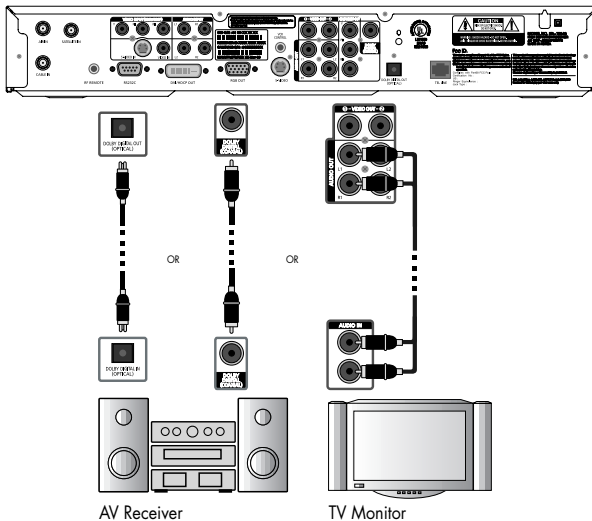
- 7 Make audio connections to your TV or A/V receiver.
Your DIRECTV® HD Receiver supports the following kinds of audio connections:

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

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. Whichever connection you choose, connect one end of the audio cable(s) to the appropriate OUT jack(s) on the back of the DIRECTV® HD 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® HD Receiver, you can use

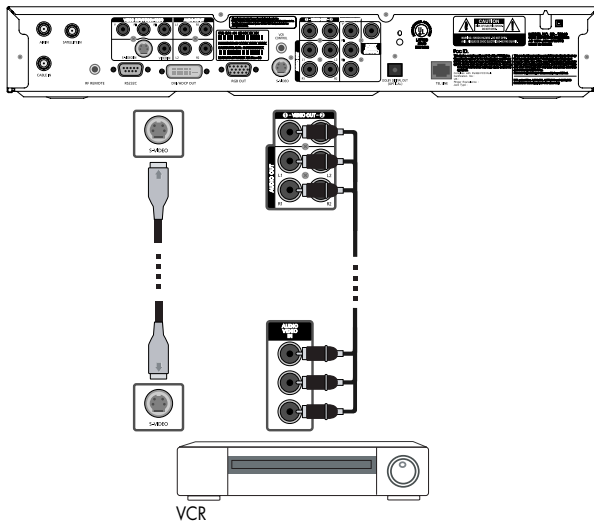
- **S-Video jack for video with the A/V audio jack for audio**
- **A/V jacks for both audio and video**

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.

Whichever connection you choose, connect one end of the audio and video cables to the appropriate OUT jack(s) on your DIRECTV® HD 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.

NOTE

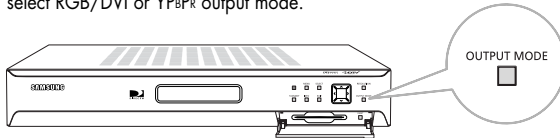
If you use the OPTICAL DIGITAL AUDIO OUT jack, remove the protective plug from the jack before making connections. RGB, Component, DVI and S-Video jacks do not output audio.





9

If you connected your TV using RGB/DVI or YPbPr output, press the output mode button to select RGB/DVI or YPbPr output mode.



10

(Optional) follow the instructions on the next page if you have a VCR and want to hook up the VCR control.

11

Plug in the power cords for your TV, A/V receiver, and DIRECTV® HD Receiver.

Setting your TV input button

To view any of the programming from your DIRECTV® HD Receiver (satellite, cable, or off-air), set your TV to display the input from the video input jack you used to connect the DIRECTV® HD Receiver. (This is a setting on your TV usually controlled by a Video, Input, or Mode button. See your TV manual for help.)

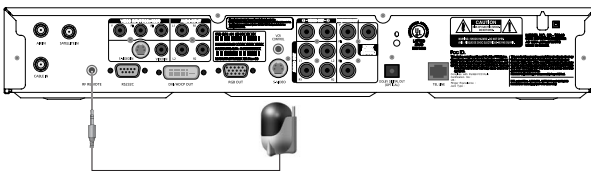
Also, if necessary, set your A/V receiver to play the audio from the audio input jack you used to make the audio connection. See your A/V receiver manual for help.

Connecting the RF remote cable with RF receiver.

You can operate the Digital Satellite Receiver when installed in a cabinet or from another room in your house using the RF remote control. (Optional)

1

Connect the RF Receiver to the RF REMOTE jack of the Digital Satellite Receiver.



NOTE

The operating range of the remote control is about 100 feet when connecting the RF receiver. This may decrease due to ambient reception conditions, weak batteries, obstacle, etc...

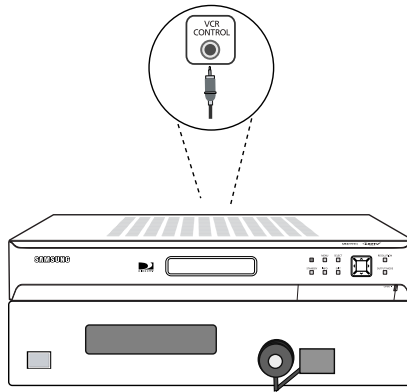
Connecting the VCR control cable

The VCR control cable allows your DIRECTV® HD Receiver to automatically program your VCR to record a TV program.

By selecting a Record option from the on-screen Program Guide, you can direct the VCR control cable to flash signals to the VCR's remote control sensor programming the VCR to tape a TV program for you.

To connect the VCR control cable to your DIRECTV® HD Receiver, follow these steps:

- 1 Plug the VCR control cable into the VCR CONTROL jack on the back of the DIRECTV® HD Receiver.
- 2 Remove the backing tape from the adhesive on the other end of the VCR control cable. Stick the VCR control next to the remote control sensor on your VCR. (See the manual for your VCR if you are not sure where its remote sensor is located.)



NOTE

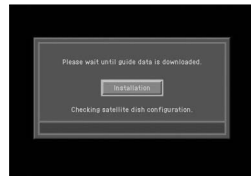
*Before you can use the VCR control cable to program your VCR, you must set up the VCR control. See *Setting up the VCR control* in Chapter 5 for details.*

Turning on the DIRECTV® HD Receiver for the first time

You have completed the connection steps and are ready to start using your DIRECTV® HD Receiver. The first step is to turn on the DIRECTV® HD Receiver.

- 1 Turn on your TV and set it to display the signal from your DIRECTV® HD Receiver. If you connected the DIRECTV® HD Receiver to video input jacks on your TV, you will need to set your TV to display the input from these jacks. Usually this is done by pressing a Video, Input, or Mode button on your TV's remote control. (See the manual for your TV if you need help.)

- 2 Press the POWER button on the DIRECTV® HD Receiver's remote control or on the front of the DIRECTV® HD Receiver. Characters will be displayed on the VFD in the front panel. If this is the first time you have turned on your DIRECTV® HD Receiver, it will take a few moments to acquire the program guide from the satellite. During this process, the Progress screen appears. When the program guide has been fully acquired, the Progress screen clears and the TV screen is displayed. You are ready to continue setting up your DIRECTV System.



Memorizing Channels

If your DIRECTV® HD Receiver is able to acquire the program guide and display TV programs, your satellite dish is setup and working.

You can skip ahead to the section on Setting the dish type.

If your DIRECTV® HD Receiver cannot acquire the program guide, and you intend to watch DIRECTV® programming, you may need to adjust the way your satellite dish is installed.

To do this, first make sure your TV and DIRECTV® HD Receiver are turned on and connected to each other properly.

Then follow the instructions below to use your DIRECTV® HD Receiver's Menu system to set up your satellite dish.

The Installation option in the Setup menu provides access to a variety of important setup controls. The first of these is the Set Dish menu. The Set Dish menu allows you to:

- Acquire the exact azimuth, elevation, and tilt angles to help you point your dish accurately based on your ZIP code.
- Check the setup of your satellite dish using an on-screen signal meter.
- Set the dish type (to tell your DIRECTV® HD Receiver what kind of satellite dish you are using).
- Set your dish type automatically.

The sections that follow detail each of these procedures.

Acquiring the correct dish pointing angles

The Dish Pointing menu item in the Set Dish menu allows you to find out exactly how to point your satellite dish by entering your ZIP code.

If you have not yet successfully aligned your satellite dish, or if you need to realign it, follow these instructions to find the exact angles you should use to point your dish:

- 1 Press the MENU button on your remote control.
The Main menu appears.
- 2 Highlight the Setup menu item, then press the SELECT button.
The Setup menu appears.
- 3 Highlight the Installation menu item, then press the SELECT button.
The Installation menu appears.
- 4 Highlight the Set Dish menu item, then press the SELECT button.
The Set Dish menu appears.
- 5 Highlight the Dish Pointing menu item, then press the SELECT button. The Dish Pointing screen appears.
- 6 Use the right-arrow button on your remote control to highlight the space for the first digit in the ZIP code.



-
- 7** Use the 0 - 9 buttons on your remote control to enter your five-digit ZIP code. When you have entered all five digits, the screen updates to display the correct azimuth, elevation, and (for oval dish types only) tilt. Azimuth refers to the left-to-right angle to which you should point your dish. Elevation refers to the up-and-down angle to which you should point your dish. Tilt (for oval dishes only) refers to the amount off-horizontal you should twist the dish on its axis. Write down these numbers and use them to accurately point your satellite dish.
-
- 8** To return to the Set Dish menu, press the BACK button on your remote control. To exit the Menu system, press the EXIT button on your remote control.
-

Checking the satellite signal strength

The Signal Meter allows you to check the strength of the signal from the satellite to your satellite dish.

This is useful while setting up your satellite dish, and while troubleshooting any reception problems you may encounter.

Satellite signal strength can be affected by how accurately you have pointed the satellite dish, and by any obstructions between the satellite and the satellite dish (tree limbs, for example).

NOTE

If you connected your DIRECTV® HD Receiver to an off-air antenna, you can check the strength of any digital signals received by that antenna using the Digital Off-Air Signal Strength meter. Follow the instructions in Programming local channels later in this chapter.

To check your satellite signal strength, follow these steps:

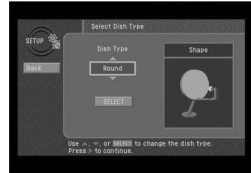
-
- 1** Press the MENU button on your remote control.
-
- 2** Highlight the Setup menu item, then press the SELECT button.
-
- 3** Highlight the Installation menu item, then press the SELECT button.
-
- 4** Highlight the Set Dish menu item, then press the SELECT button.
-

2 Highlight the Set Dish menu item, then press the SELECT button. The Set Dish menu appears.

3 Highlight the Select Dish Type menu item, then press the SELECT button. The Select Dish Type screen appears.

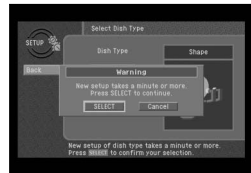
4 Use the right-arrow button on your remote control to highlight the Dish Type option on the Select Dish Type screen.

5 Use the up- and down-arrow buttons on your remote control to display the dish type you are using (Round, Oval-2, Oval-3, or No Dish). As you display each dish type, the on-screen pictures update showing you what each of these dish types look like. If you plan to use your DIRECTV® HD Receiver for local off-air or cable TV programs, but do not plan to receive DIRECTV® programming, select No Dish.



6 A message appears warning you that your DIRECTV® HD Receiver needs to reboot (turn itself off and on) for the Dish Type setting to take effect. When you have displayed the correct dish type, use the right-arrow button on your remote control to highlight the on-screen SELECT button, then press the SELECT button.

7 To change the Dish Type to the new setting, highlight the on-screen SELECT button, then press the SELECT button. To leave the Dish Type setting unchanged, highlight the on-screen Cancel button, and press the SELECT button.



After you select the on-screen SELECT button, the DIRECTV® HD Receiver will reboot. If you selected No Dish, the DIRECTV® HD Receiver will perform an auto-scan to put your cable and off-air channels into its memory so you can tune them and see them in the on-screen Guide.

Using Auto Detection to set the dish type

To function properly, your DIRECTV® HD Receiver needs to know what type of satellite dish you are using.

You can specify the dish type using the instructions on page 31, or you can follow the steps below to use the Auto Detection menu item to automatically set the dish type.

Before you can use Auto Detection to set the dish-type, the dish must be correctly aligned and the DIRECTV® HD Receiver must be receiving a strong signal from the satellite (that is, signal-lock must be established).

To check the satellite signal, use the signal meter — see page 30 for details.

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the Set Dish menu item, then press the SELECT button.
- 5 Highlight the Auto Detection menu item, then press the SELECT button.

The Auto Detection screen appears.

The DIRECTV® HD Receiver starts attempting to identify the dish type. You can stop the detection process by using the arrow buttons on your remote control to highlight the on-screen Cancel button, then press the SELECT button.

Once the dish type has been identified, a screen appears telling you what type of satellite dish you have.



- 6 To accept the detected dish type setting, use the arrow buttons on your remote control to highlight the on-screen BACK button, then press the SELECT button. The DIRECTV® HD Receiver will reboot.



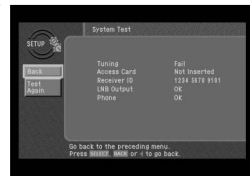
Testing the DIRECTV® HD Receiver

The System Test feature allows you to quickly check the status of the satellite signal, your Access Card, Receiver ID, LNB Output, and your Phone line connection. This is helpful while troubleshooting any problem you may experience with your DIRECTV® HD receiver.

To start the System Test, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the System menu item, then press the SELECT button.

- 4 Highlight the System Test menu item, then press the SELECT button. The System Test screen appears. The test will begin as soon as the screen appears. Results are displayed in a moment. If the test discovers a problem with the satellite tuning, check that the satellite dish is pointed properly, and that nothing is obstructing the direct view to the satellite. If the test discovers a problem with the Access Card, check that the card is properly inserted. (See Inserting the Access Card in Chapter 2 for details.)



If the test discovers a problem with the Receiver ID, contact an authorized call center.

NOTE

The Receiver ID is printed on the rear panel of your receiver and consists of twelve digits.

If the test discovers a problem with the LNB output, check an antenna signal operates before contacting an authorized call center. For problems with the phone line connection, be sure that the DIRECTV® HD Receiver is connected to a phone line, and that the phone line is working. (Try plugging a telephone into the line you are using for the DIRECTV® HD Receiver; check to see if the phone gets a dial tone. If so, the line is working.)

- 5 When you have finished the Signal Strength test, you can run the test again using the on-screen Test Again button, exit the Menu system by pressing the EXIT button on your remote control, or use the arrow keys to highlight on-screen BACK button, then press the SELECT button to return to the System menu.

Testing the Signal Strength

The DIRECTV HD Receiver shall have a matrix that shows the signal strength of all transponders per orbital position in one table. This matrix is in addition to showing the signal strength of each active transponder individually in the system setup menu.

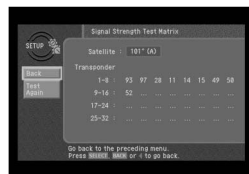
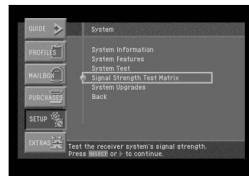
To start the Signal Strength test, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the System menu item, then press the SELECT button.
- 4 Highlight the Signal Strength Test Matrix item, then press the SELECT button. The Signal Strength Test Matrix screen appears. The test will begin as soon as the screen appears. Results are displayed in a moment.

NOTE

Transponders that are inactive shall have "n/a" in place of a signal strength number.

- 5 When you have finished the system test, you can run the test again using the on-screen Test Again button, exit the Menu system by pressing the EXIT button on your remote control, or use the arrow keys to highlight on-screen BACK button, then press the SELECT button to return to the System menu.



Setting up local networks

You can use your DIRECTV® HD Receiver to receive Guide information via satellite for local off-air and cable TV channels. To use this feature, you must connect your DIRECTV® HD Receiver to a satellite dish as described earlier in this chapter, and you must set up the Local Networks option in the menu system.

NOTE

If you do not connect your DIRECTV® HD Receiver to a satellite dish and subscribe to DIRECTV® programming, you can still add local channels to the Guide by following the instructions in the next section.

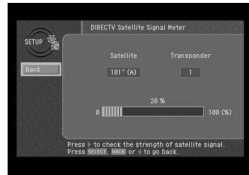
- 5 Highlight the DIRECTV Satellite Signal Meter menu item, then press the SELECT button.

The DIRECTV Satellite Signal Meter screen appears.

The signal meter starts checking the satellite signal strength immediately. The signal strength (from 0-to-100%) is indicated at the bottom of the screen.

The DIRECTV Satellite Signal Meter screen allows you to check signal strengths from different Satellites, and different Transponders. The Satellites option applies only to oval-shaped satellite dishes which receive signals from multiple satellites. On round dishes, the Satellite setting is fixed. Transponders are the equipment on satellites that receive the signal from the earth-based program providers and relay it back to earth to your satellite dish. Different transponders handle the signals for different TV channels.

When setting up your satellite dish, you should try to maximize the signal strength across all of the satellites and transponders.



- 6 To check the signal strength for different satellites (oval dishes only), or different transponders, use the left- and right-arrow buttons on your remote control to highlight the on-screen Satellite or Transponder option, then use the up- and down-arrow buttons to change the setting. The signal meter updates to show you the signal strength for the new satellite or transponder.

Setting the dish type

To function properly, your DIRECTV® HD Receiver needs to know what type of satellite dish you are using.

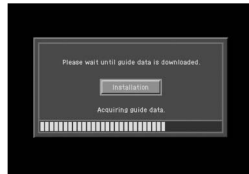
You can specify the dish type using the instructions here, or you can follow the steps on page 33 to use the Auto Detection menu item to automatically set the dish type.

NOTE

For DIRECTV® High-Definition programming, you will need an oval triple LNB satellite dish antenna.

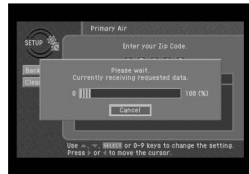
To manually set the dish type:

- 1 If the Progress screen (shown here) is on your TV screen, select Installation by pressing the SELECT button. If this screen is not displayed, access the Main Menu by pressing the MENU button on your remote control. Then use the arrow buttons on your remote control to highlight the Setup menu, and press the SELECT button. Then highlight the Installation menu, and press the SELECT button. The Installation menu appears.



To set up the Local Networks menu option:

- 1 Press the MENU button on your remote control.
- 2 Highlight Setup, and press the SELECT button.
- 3 Highlight Installation, and press the SELECT button.
- 4 Highlight Local Networks, and press the SELECT button.
- 5 Highlight Primary Air, and press the SELECT button.
- 6 Highlight the first box in the ZIP code area, then use the number buttons on your remote control to enter your ZIP code. After a while, a list of cities appears below your ZIP code.
- 7 Highlight the name of the city from which your local channels are broadcast, and press the SELECT button.
- 8 Highlight the on-screen BACK button, and press the SELECT button. You return to the Local Networks screen.
- 9 (Optional) If you receive off-air broadcasts from a second city, highlight Secondary Air, and press the SELECT button. Repeat steps 6 - 8 for the second city.
- 10 (Optional) If you receive programming from a cable TV service, highlight Cable, and press the SELECT button. Repeat steps 6 - 8 for the cable service.
- 11 When you have finished entering your local broadcast and cable TV information, press the EXIT button on your remote control. The DIRECTV® HD Receiver will reboot (turn itself off and then back on). After rebooting, the DIRECTV® HD Receiver will acquire and provide Guide information for your local off-air and cable TV channels.



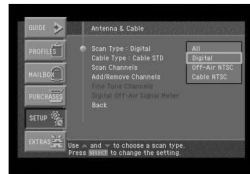
Scanning off-air and cable TV channels

The Guide can receive programming information for local and cable channels via satellite (as described in the previous section). Your DIRECTV® HD Receiver can also add off-air and cable TV channels to the Guide by scanning for signals from any off-air antenna or cable TV service connections you have provided.

Follow this procedure to scan for channels from an off-air antenna and cable TV service connected to your DIRECTV® HD Receiver.

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, and press the SELECT button.
- 3 Highlight the Antenna & Cable menu item, and press the SELECT button.

- 4 Highlight the Scan Type menu item and press the SELECT button to display the list of available channel types. The Scan Type list appears allowing you to choose to set your DIRECTV® HD Receiver to automatically scan for channels from Digital sources (off-air ATSC broadcasts), Off-Air NTSC sources (standard TV broadcasts), Cable NTSC (standard cable TV services), or all of these. If this is the first time you are setting up this DIRECTV® HD Receiver to receive local channels, the All setting is recommended.



- 5 Highlight the Scan Type option that matches the type of broadcasts you would like to program into your DIRECTV® HD Receiver, then press the SELECT button.
- 6 Next, set your cable TV type by highlighting the Cable Type menu item and pressing SELECT. Then highlight the type of cable signal your cable TV service provides (STD, HRC, or IRC), and press the SELECT button. STD, HRC and IRC are signal formats used by cable TV services. Contact your Cable TV service provider to determine which signal type they use.
- 7 Highlight the Scan Channels menu item, and press the SELECT button. The Scan Channels screen appears and the DIRECTV® HD Receiver automatically starts looking for all available channels of the type you specified in the Scan Type list. Wait until the scan is completed.
- 8 If the automatic scan included any channels that you do not intend to watch, you can edit the channel list by using the Add/Remove Channels menu item in the Antenna & Cable menu.

-
- 9 If any of the off-air antenna channels appear out-of-tune, you can fine tune them using the Fine Tune Channels item in the Antenna & Cable menu.
-
- 10 If you have added digital channels from an off-air antenna, you can check the signal strength for that channel by using the Digital Off-Air Signal Strength menu item in the Antenna & Cable menu.
-
- 11 To exit the Menu system press the EXIT button on your remote control.
-

Activating your DIRECTV account

After you have installed and connected the the satellite dish and DIRECTV® HD Receiver, you must contact your service provider to create an account. To order programming from DIRECTV, please call 1-800-DIRECTV (1-800-347-3288). Check with your retailer or visit www.DIRECTV.com for information on availability of local channels from DIRECTV in your area.

DIRECTV® programming is provided in accordance with the terms and conditions of the DIRECTV Customer Agreement, which is provided at DIRECTV.com or with your first DIRECTV bill.

Activation of programming may be subject to credit approval and requires valid service address, social security number and/or major credit card. Deposit or prepayment may be required.

Programming subject to change.

You must be physically located in the U.S. to receive DIRECTV service.

DIRECTV services not available outside the U.S.

DIRECTV programming is sold separately and independently of DIRECTV® System hardware.

A valid programming subscription is required to operate DIRECTV System hardware.

Upgrades

Your digital satellite receiver is able to receive upgrades or modifications to some of its features and functions.

These modifications will occur automatically, usually at times when the receiver would likely be turned off.

If your receiver is on when an upgrade or modification is sent, you may experience a disruption in reception for a minute or two.

Your reception should return to normal after the modification is complete.

Your receiver must be plugged in to receive any upgrades.

Do not unplug your receiver while an upgrade is in progress.

Please consult the System Upgrades menu item (in the System section of the Setup menu) to find a schedule of upgrades or modifications planned by DIRECTV.

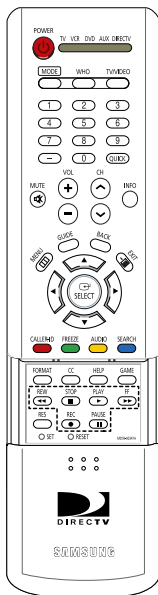
Chapter 4: Watching TV

This chapter covers all of the things you can do with the Program Guides and other features that let you control the way you watch TV. Specifically, it contains information on:

- Remote control overview
- Changing channels
- Adjusting the volume
- Getting help
- Getting information on the TV program you are watching
- Finding out what's on: the Guides
- Searching for programs in the Guide
- Choosing an alternate audio format for a program
- Changing the User setting
- Pay per view programs

Remote control overview

Here is a quick review of the buttons on your DIRECTV® HD Receiver's remote control. Before your DIRECTV HD Receiver's remote control can operate your TV, VCR, DVD player, or other device, you must first program the remote control to operate that device. See Chapter 8: Programming the remote control.



VCR Control Buttons



Used for rewinding



Saves the current channel to the VCR



Plays the videotape or DVD disc



Used for stopping play



Used for fast-forwarding



To pause or play video.

POWER

Turns the device you are controlling on or off.

SET

Use this button when programming your remote control to operate your TV, VCR, DVD player, or an auxiliary device (AUX). See Chapter 8, Programming the remote control.

MODE

These buttons tell the current state of your remote control. Selects a target device to be controlled i.e., TV, VCR, DVD, AUX, DIRECTV. These buttons work only after the remote control has been programmed.

VOL+/-

Adjust the volume level of your TV (once the remote control has been programmed). You can control the volume when in TV, DIRECTV, or VCR mode.

MUTE

Mute or unmute the TV audio (once the remote control has been programmed).

TV/VIDEO

Button the TV between its video input modes (Once the remote control has been programmed) if the TV mode is selected. In the DIRECTV mode, it will be used for external input switching.

CH ^ v

Change channels on your DIRECTV HD Receiver or your TV (once the remote control has been programmed).

INFO

Display the Channel Banner and information about the current program.

HELP

Display instructions about the screen or menu currently displayed.

WHO

Press to change the current user profile.

QUICK

Press this button to view the Quick Guide.

MENU

Press this button to display the on-screen Menu.

GUIDE

Press to view the on-screen Program Guide.

Up/Down/Left/Right arrows

These buttons move the highlight to any on-screen Guide or Menu selection.

SELECT

Select highlighted items in the on-screen Menu or Guide.

BACK

Return to the channel you were last watching, or return to a previous Menu.

EXIT

Exit any Guide or Menu screen and return to the TV program you were watching.

CALLER ID (red button)

Displays the phone numbers of callers who called you on the phone line connected to your DIRECTV® HD Receiver (works only if you subscribe to your telephone service's caller ID service). While in the Guide, this button lets you change the Guide style.

FREEZE (green button)

Takes a still picture of the TV screen. Press it again to resume the program you were watching. In the Guide, this button lets you see program listings for different times.

AUDIO (yellow button)

While watching TV, press this button to select an alternate audio track. While in the Guide, this button lets you view programs in selected categories.

SEARCH (blue button)

Press this button to search for a program listing in the Guide.

Number and delimiter buttons (0-9, -)

Press the number buttons to tune to a channel or to enter numbers on Menu screens. Press the delimiter button (-) to separate parts of a number.

GAME

Accesses games you can play.

FORMAT

Cycles through the formats available for your display type.

CC

Displays and hides Closed Caption text.

VCR control buttons

VCR control buttons operate your VCR with the Play, Rewind, Fast-Forward, Record, Stop and Pause buttons (once the remote control has been programmed).

RES

Changes the screen resolution.

RESET

Resets the remote control.

Changing channels

Your DIRECTV HD Receiver can tune in DIRECTV programming, and, if you have connected an off-air antenna or cable TV cable, it can tune in your local off-air NTSC and digital broadcasts or cable TV programs.

All available channels from any of these sources will appear in the Guide, and can be tuned in using the CH \wedge \vee buttons and the 0 - 9 number buttons on your remote control. The Channel Banners that appear on the screen as you change channels (or when you press the INFO button) indicate the signal type for the program you are watching (Satellite, Analog, or Digital). Satellite indicates the program on the current channel is being received through your satellite dish. Analog indicates that the program is an NTSC program from a cable company or off-air antenna. Digital indicates the program is a Digital TV broadcast (either HDTV or SDTV) being received from a cable TV connection or off-air antenna. (See Chapter 1 for discussions of the types of TV programming your DIRECTV® HD Receiver can receive.)

To change the channel you are watching:

- 1 Press the CH \wedge button on the remote control to tune to a higher channel number.
Press the CH \vee button to tune to a lower channel number.
 - 2 Enter a channel number directly with the 0 - 9 number buttons. After entering a number, press the SELECT button or wait a few seconds for the system to tune to the new channel. For some broadcasts, you may need to enter a two-part number to specify a channel and a sub-channel (entering 5-1, for example, would tune you to channel 5, sub-channel 1). To enter two-part channel numbers, use the number buttons to enter the first number, then press the delimiter button (-), then enter the second number.
 - 3 Use the Quick Guide or full-screen Program Guide to change channels.
-

Adjusting the volume

To adjust the volume while watching DIRECTV programming, you simply press the VOL + button on the remote control to increase the volume or the VOL - button to decrease the volume. In order for the DIRECTV® HD Receiver's remote control to adjust your TV's volume setting, you will have to program the remote control to operate your TV. (See Chapter 8: Programming the remote control.)

Getting help

While using the Guide or Menu systems, you will often see a line of text at the bottom of the screen explaining what you are seeing on-screen, or telling you what your next step is. When this brief explanation is not enough, you can view more detailed Help screens by pressing the HELP button on your remote control.

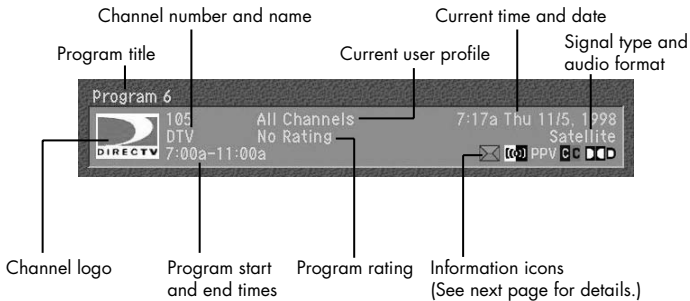
Getting information on the TV program you are watching

Your DIRECTV® HD Receiver provides several layers of information about the TV programs you watch.

The Channel Banner

As you change channels you will see a Channel Banner on each channel you tune to. After a few seconds, the Channel Banner disappears. If you want to clear it right away, press the EXIT button on your remote control.

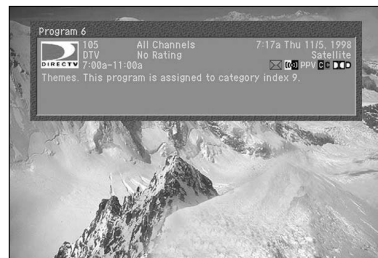
The Channel Banner provides the following information:



The Full Channel Banner

The Channel Banner provides quick information as you button channels on your DIRECTV® HD Receiver. If you want to see information about the channel you are currently watching, simply press the INFO button on your DIRECTV® HD Receiver's remote control. Pressing the INFO button displays the Full Channel Banner.

The Full Channel Banner displays all the information in the Channel Banner, plus more details about the program. For example, the Full Channel Banner for a movie might display the category for the movie (drama, comedy, action/adventure, etc.), the cast, the year it was released, and a short description of the plot. You can clear the Full Channel Banner from your screen by pressing the EXIT button on your remote control.



Information icons

In addition to the basic channel and program information contained in the Channel Banners (program title, channel name, rating, etc.), there are a set of information icons. These icons tell you more about the program you are watching and about the status of your DIRECTV® HD Receiver. Here are descriptions of each icon:



Multi-language

This icon appears when additional audio tracks are available. Press the yellow AUDIO button to choose an alternate audio track.



Locked

This icon appears when the system is locked.



Unlocked

This icon appears when the system is temporarily unlocked.



Mail

This icon appears when there are unread mail messages from DIRECTV in your system mailbox.



Music channel

This icon appears when the channel is a music-only channel.



Pay per view program

This icon appears when the program is a pay per view program.



Closed caption

This icon appears when closed captioning is available for a program.



Dolby® Digital

This icon indicates that the current program is being broadcast using a Dolby Digital audio track. Because all high-definition broadcasts use Dolby Digital audio, the icon does not appear for HDTV broadcasts.



Letterbox

This icon indicates that the current program is being broadcast using the letterbox widescreen video format.



High definition

This icon indicates that the current program is a High Definition broadcast (HDTV).



All Day Ticket

This icon will appear when you purchase All Day Ticket.

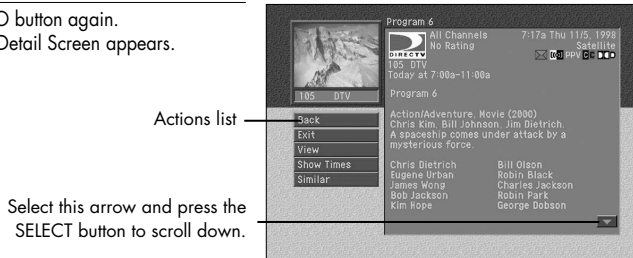
The Program Detail Screen

If you want to see more information than is presented in either the Channel Banner or the Full Channel Banner, you can press the INFO button twice to display the Program Detail Screen.

The Program Detail Screen displays all of the information provided in the Channel Banner and Full Channel Banner, plus complete details about the program and a list of actions you can take related to the program.

To view the Program Detail Screen:

- 1 While watching a TV program, press the INFO button on your remote control.
The Full Channel Banner appears.
- 2 Press the INFO button again.
The Program Detail Screen appears.



Select this arrow and press the SELECT button to scroll down.

Another way to view the Program Detail screen is to enter the Program Guide, highlight the program listing you are interested in, then press the INFO button.

Program Detail Screen actions

In addition to a description of the program you are watching, the Program Detail Screen provides a list of actions you can take related to that program. Here are descriptions of the actions that might be available for a program.

NOTE

not all actions are available for every program.

- Back:** Displays the last screen you viewed before entering the Program Detail Screen.
- Exit:** Clears the screen and displays the last channel you were viewing.
- Buy \$(Price):** For pay per view programs, allows you to purchase the program.
- Cancel \$(Price):** For pay per view programs that you have previously purchased but that have not yet aired, lets you cancel your purchase.
- View:** Displays the channel airing the program described.
- Schedule:** For future programs, allows you to set your DIRECTV HD Receiver to remind you when the program is about to start, or to set your DIRECTV® HD Receiver and VCR to record the program.
- Unschedule:** For programs you have previously scheduled for a reminder or recording, allows you to cancel the reminder or recording.
- Episodes:** For programs broadcast as episodes, allows you to view a list of other episodes in that program's series.
- Show Times:** Displays a list of times and channels for viewing the program.
- Similar:** Displays a list of programs that have aspects in common with the program.

Finding out what's on: the Guides

Your DIRECTV HD Receiver provides access to detailed information about TV schedules. If you want to know what's on, just use the Guide.

The Guides provide scheduling information for all types of programming (satellite, off-air, or cable TV).

There are several types of Guides you can access, each suited to a particular set of needs and preferences.

Types of Guides

When you want to find out what's on, you can use the simple, fast Quick Guide; the detailed, informative Grid Guide; or the graphics-rich Logo Guide.

The pages that follow tell you how to access and use each of these Guide types.

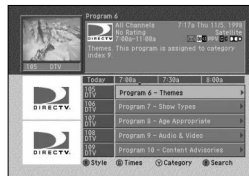
Quick Guide

The Quick Guide allows you to quickly scan to see what is on right now while still viewing the channel you are watching. Great for those times when you just want to quickly check out what's showing on that favorite channel.



Grid Guide

The Grid Guide is the most complete, detailed Guide type. It lets you see the programs for each channel in a scrollable schedule (sorted by channel number, or by channel name). If you don't know what you want to watch, and you want to browse a broad range of channels, the Grid Guide may be for you.



Logo Guide

The Logo Guide lets you find out what's on by browsing through the channels by highlighting the channels' logos — perfect for those of us who prefer pictures to text.



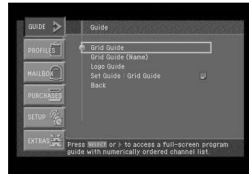
Setting the default Guide style

The Guide menu item allows you to set which style of Guide is displayed when you press the GUIDE button on your remote control. Here's how:

1 Press the MENU button on your remote control.
The Main menu appears on your screen.
When you display the Main menu, the Guide item is highlighted.

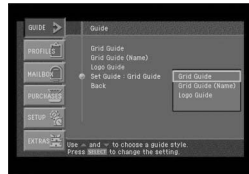
2 Press the SELECT button.
The Guide menu appears.

3 Use the up- and down-arrow buttons on your remote control to highlight the Set Guide menu item. The page icon to the right of the Set Guide item indicates selecting this item will display a list of options.



4 Press the SELECT button on your remote control.
A list of Guide Styles appears.

5 Highlight the Guide style you wish to have displayed anytime you press the GUIDE button, then press the SELECT button.
The list of Guide styles disappears, and the style you chose is displayed in the Set Guide menu item.



6 To exit the Menu, press the EXIT button on your remote control.
Pressing the GUIDE button will now display the Guide style you selected.

Using the Quick Guide

The Quick Guide is made up of a Channel Banner and a channel list. This Guide is small and transparent so that you can continue to watch a TV program while you are browsing the Guide. Follow these steps to use the Quick Guide.

- 1 To display the Quick Guide, press the QUICK button on your remote control. The Quick Guide appears, displaying a small Channel Banner and a channel list showing the current half-hour time block.

- 2 Use the arrow buttons on your remote control to move up or down in the channel list, or forward (and then backward) in time. You can move up and down through the channel list a full page at a time by pressing the CH \wedge and CH \vee buttons on your remote control. You can also use the number buttons on your remote control to move the Quick Guide directly to a specific channel.

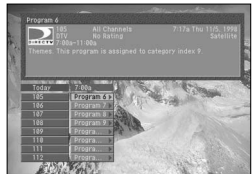
As you highlight each program listing, its information appears in the Channel Banner.



- 3 To see more information on a highlighted program, press the INFO button on your remote control. The Full Channel Banner appears.

- 4 To get information on a channel (rather than a program), use the arrow keys on the remote control to highlight the channel number.

- 5 To expand the program listings to show more time, press the right-arrow button on your remote control. Each time you press the right arrow, the Quick Guide expands by 30 minutes (up to a maximum 2-hour display). To reduce the Quick Guide in 30-minute blocks, press the left-arrow button.



- 6 To watch a program you see listed in the Quick Guide, highlight that program, then press the SELECT button.

Using the Grid Guide

The Grid Guide displays a Channel Banner and a channel list. It provides access to the complete set of Guide features including the ability to search for programs, schedule reminders and recordings, etc.

Displaying and clearing the Grid Guide

To display or clear the Grid Guide:

- 1 To display the Grid Guide, press the GUIDE button on your remote control. The Grid Guide appears. (Pressing the GUIDE button displays the Guide style — Grid Guide, Grid Guide (Name), or Logo Guide — established in the Set Guide option in the Guide menu. The default setting is Grid Guide).
- 2 You can also display the Grid Guide by pressing the MENU button on your remote control. Then highlight Guide and press the SELECT button. Then highlight Grid Guide and press the SELECT button again.
- 3 To clear the Grid Guide from your screen, press the EXIT button on your remote control.

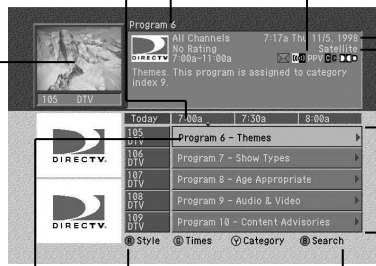
Grid Guide overview

This diamond marks the current time (so you can see how close you are to a program start or end time).

Title of the highlighted program or channel

This Banner shows information about the channel or program highlighted in the Guide.

Picture-in-Guide shows you the program you are watching.



Current time and date

Signal type

The program list; use the arrow buttons on your remote control to highlight different areas.

The program currently highlighted.

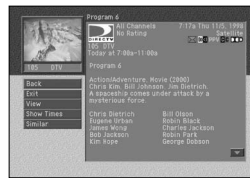
Icons to remind you about the Guide functions of the red, green, yellow, and blue buttons on your remote control.

Getting around in the Grid Guide

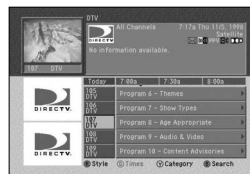
You can use the Grid Guide to get detailed information about the channels and programs it contains. Here's how:

- 1 To highlight different program listings in the Grid Guide, use the arrow buttons on your remote control to move up or down in the channel list, or forward and backward in time.
- 2 To move up and down through the channel list a full page at a time, press the CH \wedge and CH \vee buttons on your remote control.
- 3 To move the Grid Guide directly to a specific channel, press the 0-9 number buttons on your remote control to enter the desired channel number.
- 4 As you highlight each program listing in the Grid Guide, information about the program appears in the Channel Banner. To see more information on a highlighted program, press the INFO button on your remote control.

The Program Detail screen appears, showing complete information about the highlighted program and a list of actions you might want to take related to that program. To return to the Grid Guide, highlight the Back item from the on-screen list and press the SELECT button.



- 5 To get information on a channel (rather than a program), use the arrow keys on the remote control to highlight the channel entry in the Guide. The Channel Banner displays information about the highlighted channel.



- 6 Press the INFO button on your remote control while a channel entry is highlighted to see a Channel Detail Screen containing more information about the highlighted channel.



Tuning to a channel with the Grid Guide

To tune to a program or channel listed in the Grid Guide:

- 1 Highlight the program or channel you want to watch.
- 2 Press the SELECT button.
The Guide disappears, and the channel you selected fills the screen.

Switching to another Guide style

You can button from the Grid Guide to the Grid Guide (Name) or Logo Guide while viewing the Grid Guide. Here's how:

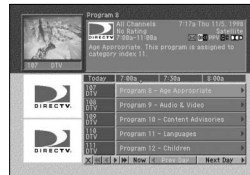
- 1 With the Guide displayed on your screen, press the RED button on your remote control.
A list of Guide Styles appears on your screen.
- 2 Highlight the Guide style you wish to view, then press the SELECT button. The Guide Style list disappears, and the Guide appears in the style you chose.











Viewing the Guide for a different time

You can view the TV programming for different times by using the Guide's time control bar. Here's how:

- 1 With the Guide displayed on your screen, press the GREEN button on your remote control.
The time control bar appears across the bottom of the Guide.
- 2 Highlight the time controls.
Press the SELECT button to select the controls you wish to use.



Here is an explanation of each time control.

-  Exits the time control bar.
-  Moves the Guide view back 6 hours (unavailable when viewing the current time).
-  Moves the Guide view back 30 minutes (unavailable when viewing the current time).
-  Moves the Guide view ahead 30 minutes.
-  Moves the Guide view ahead 6 hours.
-  Moves the Guide view to the current time.
-  Moves the Guide view back 24 hours (unavailable when viewing the current time).
-  Moves the Guide view ahead 24 hours.

Viewing a category of programs in the Guide

You can set your Guide to show you all channels, or only channels showing programs in a specific category (for example, only channels showing sports, or only channels showing movies). Here's how:

- 1 With the Guide displayed on your screen, press the YELLOW button on your remote control. A list of Guide Categories appears on your screen.
- 2 Highlight the Guide category you wish to view, then press the SELECT button. The Guide Category list disappears and the Guide appears, displaying channels showing programs that match the category you chose.



Using the Logo Guide

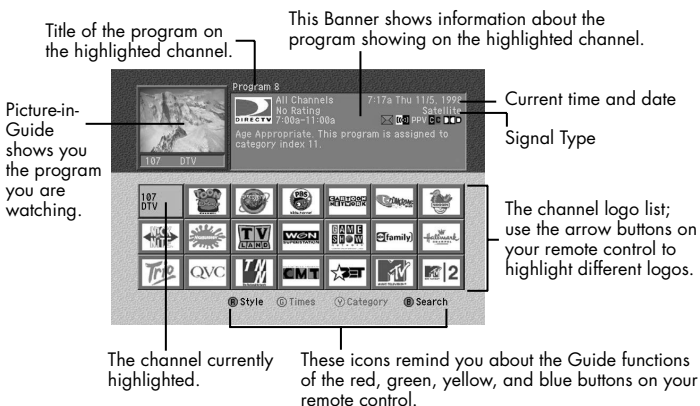
The Logo Guide displays 21 channel logos and a Channel Banner showing information about the program currently showing on the highlighted channel. Follow the steps in this section to use the Logo Guide.

Displaying and clearing the Logo Guide

To display or clear the Logo Guide:

- 1 Press the MENU button on your remote control. Then highlight the Guide menu item, and press the SELECT button. Then highlight the Logo Guide menu item, and press the SELECT button. The Logo Guide appears on your screen.
- 2 Or, press the GUIDE button on your remote control. Then press the RED button to display the list of Guide styles. Then highlight the Logo Guide option, and press the SELECT button. The Logo Guide appears.
- 3 Or, you can set the default Guide Style so that the Logo Guide always appears whenever you press the GUIDE button on your remote control. See Setting the default Guide style on page 55 for details on setting the default Guide Style.
- 4 To clear the Logo Guide from your screen, press the EXIT button on your remote control.

Logo Guide overview



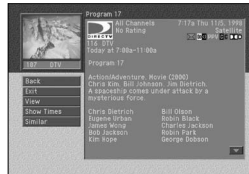
Getting around in the Logo Guide

You can use the Logo Guide to get information about the programs currently showing on your DIRECTV HD Receiver. Here's how:

- 1 To highlight different program listings in the Logo Guide, use the arrow buttons on your remote control to move up, down, left, or right in the logo list. When you highlight a logo, it is replaced by the channel name and number in the Logo Guide.
- 2 To move up and down through the channel logos a full page at a time, press the CH \wedge and CH \vee buttons on your remote control.
- 3 To move the Logo Guide directly to a specific channel, press the 0-9 number buttons on your remote control to enter the desired channel number.
- 4 As you highlight each channel logo in the Logo Guide, information about the program currently showing on the highlighted channel appears in the Channel Banner. To see more information on a highlighted program, press the INFO button on your remote control.



The Program Detail Screen appears, showing complete information about the program on the highlighted channel, and a list of actions you might want to take related to that program. To return to the Logo Guide, highlight the Back item from the on-screen list and press the SELECT button.



Tuning to a channel with the Logo Guide

To tune to a program or channel listed in the Logo Guide:

- 1 Highlight the channel you want to watch.
- 2 Press the SELECT button.
The Logo Guide disappears, and the channel you selected fills the screen.

Switching to another Guide style

You can button from the Logo Guide to the Grid Guide or Grid Guide (Name) while viewing the Guide. Here's how:

- 1 With the Guide displayed on your screen, press the RED button on your remote control. A list of Guide Styles appears.
- 2 Highlight the Guide style you wish to view, then press the SELECT button. The Guide Style list disappears, and the Guide appears in the style you chose.



Searching for programs in the Guide

You can search the entire list of programs stored in your DIRECTV HD Receiver's program guide to find exactly the program you wish to see. There are four ways to search the Guide:

- By Credits:** Lets you find programs that match the actor, director, role, award, or year you type using an on-screen keyboard.
- By Title:** Lets you find programs that match the program title you type using an on-screen keyboard.
- By Text:** Lets you find programs for which either the credits or the title match the search term you type using an on-screen keyboard.
- By Category:** Lets you find programs that match the program categories and subcategories you select from an on-screen list.

These search techniques are described in the sections that follow.

Searching by Credits, Title, or Text

To find programs that star a certain actor, share a director, have a particular character, have won a specific award, or were created in a certain year, search By Credits. To search for a program whose title you know, search by title. Searching by text looks at both credits and titles to find programs that match your search terms.

1 While viewing the Guide, press the BLUE button on your remote control. A search list appears, allowing you to choose a type of search.

2 Highlight By Credits, By Title, or By Text, then press the SELECT button. The search screen you selected appears. If you chose to search By Credits, the screen allows you to select a type of credit to search by. Highlight one of the five Credit types (Actor, Director, Role, Award, or Year), and press the SELECT button.



3 Highlight the first letter in the word you wish to search for, then press the SELECT button. To erase a letter, highlight the on-screen left arrow and press the SELECT button. To clear the entire entry, highlight the on-screen Clear button and press the SELECT button.

4 Continue to select letters from the on-screen keyboard until you have completed your search term. As you enter letters, an on-screen list shows you matches for the text you have entered so far.

5 To execute the search you can either highlight the on-screen Search button and press the SELECT button, or you can highlight an item from the on-screen list and press the SELECT button. A list of programs related to your search terms appears.

6 To see a list of show times for one of the search results, highlight that program, then press the SELECT button.

7 To see information about one of the search results, highlight that program, then press the INFO button.

Searching by Category

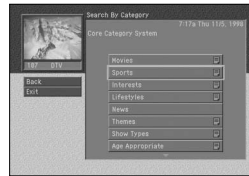
When you search by category, you narrow down the list of programs by choosing from program categories and sub-categories.

1 While viewing the Guide, press the BLUE button on your remote control. A search list appears, allowing you to choose a type of search.

- 2 Highlight By Category, then press the SELECT button.



The Search By Category screen appears. Categories that contain subcategories have a page icon to the right of the category name.



- 3 Highlight a category, then press the SELECT button. If you select a category that contains sub-categories, the subcategory list appears. Continue to narrow your search by selecting from the sub-category list until there are no more sub-categories. If you select a category that contains no sub-categories, the search results appear displaying the programs in the category you selected. To return to a previous category list, highlight the on-screen BACK button and press the SELECT button.



- 4 To see a list of show times for one of the search results, highlight that program, then press the SELECT button.
- 5 To see information about one of the search results, highlight that program, then press the INFO button.

Choosing an alternate audio format for a program

Many programs on your DIRECTV HD Receiver offer several audio formats. For example, some programs are available in alternative languages. Some are available in Dolby Digital format (a high-quality digital audio format). You can tell if a program offers alternative audio formats by pressing the INFO button on your remote control while watching a program. If one of these icons appears in the Channel Banner, an alternative audio format is available:



This icon indicates that one or more alternative languages are available for the program.



This icon indicates that a Dolby Digital version of the audio for the program is available.

To change the audio format for a program you are watching, follow these steps:

- 1 While viewing a program, press the AUDIO button on your remote control. A list of available audio formats for the program you are watching appears.
- 2 Highlight the audio format you wish to hear for the program, then press the SELECT button. The list of audio formats disappears and the program audio is now played in the format you selected.



Changing the User setting

Your DIRECTV HD Receiver allows you to establish groups of preferences for your family, and for up to four individuals. For each of these users, you can specify the user name, a unique channel list, and the color and translucency of the on-screen Guides and Menus. (Detailed instructions for modifying these user-settings are in Chapter 6.)

To set your DIRECTV HD Receiver to operate using the settings specified for one of the users, follow these steps:

- 1 While viewing a program, press the WHO button on your remote control. The Who list appears.
- 2 Highlight the name of the user whose settings you wish to activate, then press the SELECT button. The Who list disappears, and the selected user's settings take effect. To clear the Who list without changing the current user, press the WHO or EXIT button on your remote control.



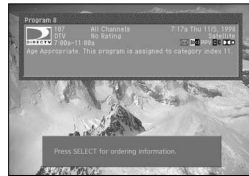
Pay per view programs

Your DIRECTV HD Receiver gives you access to many pay per view movies, sporting events, concerts, etc. All you need to order these events is your DIRECTV account, a land-based telephone line connected to your DIRECTV HD Receiver, and your remote control.

Identifying pay per view programs

There are several ways to identify pay per view programs.

- 1 If you tune to a channel currently showing a pay per view program which you have not yet purchased, a message appears telling you how to order the program.



- 2 If you press the INFO button on your remote control to view information about a program in the Guide or about a program you are currently tuned to, you will see the pay per view icon in the Channel Banner for that program.

Pay per view icon



Ordering pay per view programs

To order a pay per view program:

- 1 Locate and highlight the program you wish to purchase in the Guide. You can purchase current programs (as long as the program is less than half over) or future programs.
- 2 Press the INFO button on your remote control. The Program Details screen appears, with the list of available actions for that program.
- 3 Use the arrow keys on your remote control to highlight the Buy item from the list, then press the SELECT button. A confirmation screen appears in which you can confirm or cancel your purchase. Pay per view purchases are billed with your regular monthly statement for DIRECTV programming.



NOTE

You can set spending limits for pay per view purchases using your DIRECTV HD Receiver's Menu system. See Chapter 6 for details.

Reviewing your pay per view purchases

Your DIRECTV HD Receiver allows you to review your past pay per view purchases, to view a list of upcoming pay per view purchases, and to cancel upcoming pay per view purchases.

Viewing your Past Purchase list

To see a list of pay per view programs that you purchased and watched, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Purchases menu item, then press the SELECT button. The Purchases menu appears. The Past Purchases menu item is highlighted.
- 3 Press the SELECT button on your remote control to view a list of your past pay per view purchases. The Past Purchases screen appears.
- 4 To see details for the listed purchases, highlight a purchase, then press the SELECT button. A screen displaying program details for the selected purchase appears.
- 5 To return to the Past Purchases screen, press the BACK button on your remote control.



NOTE

The Past Purchases screen only displays pay per view programs which you purchased and watched. Pay per view programs that you purchased but did not watch appear on the Future Purchases screen.

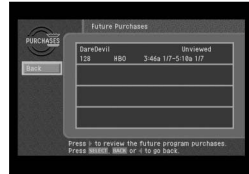
Viewing your Future Purchase list

To see a list of pay per view programs that you purchased but have not yet watched, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Purchases menu item, then press the SELECT button. The Purchases menu appears.
- 3 Highlight the Future Purchases menu item, then press the SELECT button. The Future Purchases screen appears.

4 To see details for the listed purchases, highlight a purchase, then press the SELECT button. A screen displaying program details for the selected purchase appears.

5 To return to the Past Purchases screen, press the BACK button on your remote control.



The Future Purchases screen displays both purchases you have made for programs that have not yet aired, and purchases for past programs which you never watched. Purchases which you have made that have not yet aired can be canceled following the instructions below.

Canceling a pay per view purchase

To cancel the purchase of a pay per view program that you purchased but have not yet watched, follow these steps:

1 Press the MENU button on your remote control.

2 Highlight the Purchases menu item, then press the SELECT button.

3 Highlight the Future Purchases menu item, then press the SELECT button.

4 To cancel a purchase, highlight the program purchase you wish to cancel, then press the SELECT button.

A screen displaying program details for the selected purchase appears.

5 Highlight the on-screen Cancel Purchase button, then press the SELECT button. The Program Detail screen disappears. The Future Purchase screen appears; the purchase you canceled is now listed as canceled.



NOTE

Past programs which you purchased but never watched cannot be canceled. Only PPV purchases made from the DIRECTV HD Receiver may be canceled.

Chapter 5: Program reminders and recording timers

This chapter tells you how to use your DIRECTV HD Receiver to set timers that can remind you when a program is about to begin, and record a program for you on your VCR.

The sections of this chapter include:

- Setting up the VCR control
- Scheduling program reminders and recording timers
- Reviewing and modifying reminders and recording timers

Setting up the VCR control

Your DIRECTV® HD Receiver can use the supplied VCR control cable to automatically program your VCR to record programs for you. (Instructions on setting recording timers appear later in this chapter).

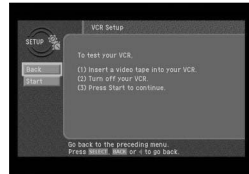
Before your DIRECTV® HD Receiver can program your VCR, you must have correctly connected and aligned the VCR control cable (see *Connecting the VCR control cable* in Chapter 3), and you must tell your DIRECTV® HD Receiver what kind of VCR you have. Here's how:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the VCR Setup menu item, then press the SELECT button. The VCR Setup screen appears.
- 5 Highlight the manufacturer of your VCR from the list on the left side of the screen.



- 6 If the VCR type list on the right side of the screen contains more than one type, highlight a type from this list.
Some manufacturers distribute more than one type of VCR.
Try them in order until you find the one that passes the test below.

- 7 Highlight the on-screen Test button from the left side of the screen, then press the SELECT button.
A screen appears displaying instructions for testing the VCR setup. Follow the on-screen instructions to see if the VCR manufacturer and Type settings you selected work for your VCR.



During the test, the DIRECTV® HD Receiver will attempt to program the VCR to record for a short time. When the on-screen instructions tell you to do so, check the tape to see if your VCR was able to record the test. If so, your VCR setup is complete. If not, go through the steps in this process again and at this time select the next VCR type from the list.
Check VCR cable connection if the above method doesn't work.

Once you have set up the VCR control, you are ready to use the VCR control to record programs for you. The rest of this chapter describes how to schedule and modify timers that allow you to record programs and set program reminders.

Scheduling program reminders and recording timers

There are two kinds of timers you can set to help you manage your TV viewing:

- You can schedule a reminder to alert you when a program is about to begin.
- You can schedule a timer that will automatically record a program on your VCR.

To set your DIRECTV® HD Receiver to remind you when a program is about to begin, or to record a program for you on your VCR, follow these steps:

- 1 Press the GUIDE button on your remote.
The Guide appears.

NOTE

*Timers are not available in the Logo Guide. If you are viewing the Logo Guide, use the RED button on your remote control, and select Grid Guide.
You can only set timers for future programs (not for programs that are currently under way).*

- 2 Highlight the program you wish to record or be reminded about, and press the SELECT button. Pressing the SELECT button once sets a program reminder. Pressing it again sets the program to be recorded on your VCR.

Today	9:00p	9:30p	10:00p	10:30p
11:00p	Joint Security	Rose Garden		
11:30p	Boxing II	HZO Concert		
11:40p	Concert Rio	Electric...		
11:50p	Generation			
11:55p	Dalma	Super Wrestling		

A clock icon is added to the program listing when a program reminder is scheduled.

Today	9:00p	9:30p	10:00p	10:30p
11:00p	Joint Security	Rose Garden		
11:30p	Boxing II	HZO Concert		
11:40p	Concert Rio	Electric...		
11:50p	Generation			
11:55p	Dalma	Super Wrestling		

A videotape icon replaces the clock icon when a recording timer has been scheduled.

Once you have set a reminder, when the program is about to begin, the DIRECTV® HD Receiver displays a message reminding you about the program.

To use the program recording feature, you must have correctly connected and positioned the VCR control cable. You must also set up the DIRECTV® HD Receiver to communicate with your VCR (see the first section of this chapter).

Make sure there is a tape in your VCR and that the VCR is turned off before the start time of any programs you have set to be recorded.

Reviewing and modifying reminders and recording timers

The Timers item in the SETUP menu allows you to review, modify, or create new program reminders and program recording timers. Here's how:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button. The Setup menu appears.
- 3 Highlight the Timers menu item, then press the SELECT button. The Timers screen appears. If you have previously scheduled program reminders or recording timers, they are listed here.



4 To review your previously scheduled program reminders and recording timers, look through this list.

5 To modify or check the details for any previously scheduled timers, highlight that timer from the list, then press the SELECT button.
To schedule a new program reminder or recording timer, highlight a blank line from the list, then press the SELECT button.
The Timer No. screen appears.

6 Highlight the option you wish to change.

- For new timers or for timers you previously scheduled using the Timers screen in the Setup menu, you can modify the channel number, the start time and date, the end time and date, the frequency, and the mode for the timer (whether it is a program reminder or a recording timer).
- For timers that you scheduled using the on-screen Guide, you can only change the frequency and mode setting.
- Once you have highlighted the option you wish to modify, use the up- or down-arrow buttons on your remote control to edit the option setting. Use the left- and right-arrow buttons to highlight different options.
- To delete the selected timer, use the right-arrow button on your remote control to highlight the on-screen Clear button, then press the SELECT button.



7 When you have finished reviewing or modifying the timer, use the right-arrow button on your remote control to highlight the on-screen Back button, then press the SELECT button.
The Edit Timer screen disappears, and you return to the Timers screen.

8 To return to the Setup menu, highlight the on-screen Back button, then press the SELECT button.
To exit the Menu system and return to TV viewing, press the EXIT button on your remote control.

Chapter 6: User profiles

This chapter tells you how to modify and select user profiles. Its contents include:

- User profiles basics
- Editing user profile names
- Editing channel lists
- Setting ratings limits
- Allowing or blocking pay per view purchases
- Setting a pay per view spending limit
- Setting the screen color and translucency
- Setting the current user profile
- Locking and unlocking your DIRECTV® System

User profile basics

If your DIRECTV® HD Receiver is going to be used by more than one person in your household, you should consider setting up user profiles for each user.

The Profiles section of the Menu system allows you to:

- Set ratings limits for the DIRECTV® HD Receiver (applies to all users).
- Set pay per view spending limits for the DIRECTV® HD Receiver (applies to all users).
- Edit channel lists for the DIRECTV System, and customized lists for individual users.
- Change the color and translucency of the Menu and Guide screens for each user profile.
- Set which user profile is currently active.
- Lock and unlock the system (controlling when the ratings limits, spending limits, and channel restrictions are active).



There are five user profiles you can choose:

- Family:** The Family user profile is the master profile for your DIRECTV® HD Receiver. The ratings limits, channel restrictions, and pay per view spending restrictions you set in the Family profile apply to all of the user profiles.
- User 1 - User 4:** These four user profiles allow individuals in your household to create custom channel lists and custom screen appearances for their own use. These profiles can be renamed to identify them with members of your household. Ratings, spending, and channel restrictions set in the Family profile still apply when one of these four user profiles is the active profile and the system is locked.
- All Channels:** You can change the Screen color or Translucency in the preferences of the set up menu.

Editing user profile names

The four profiles named User 1 - 4 can be renamed for members of your household. The Family and All Channels profiles cannot be renamed. You can change the names of User 1 - 4 profiles to anything you wish, using up to eight letters and numbers.

- 1 Press the MENU button on your remote control.
The Main menu appears.



- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears.



- 3 Highlight the profile you wish to rename, then press the SELECT button.

The menu for that user profile appears.
The Edit User Name item is highlighted.



- 4 Press the SELECT button to start editing the user name for that profile.

The Edit User Name screen appears.

- 5 Type a new name for the user profile as described below:

- To type each letter or number in the new name, highlight a key on the on-screen keyboard, then press the SELECT button. Repeat this until you have typed the entire name.
- If you need to erase a letter or two, highlight the on-screen left arrow (near the top-right corner of the keyboard), then press the SELECT button.
- To erase the entire name, highlight the on-screen Clear key, then press the select button.



- 6 When you have finished typing the user profile name, highlight the on-screen Back button, then press the SELECT button.

Editing channel lists

You can edit channel lists to simplify your channel surfing by removing channels that you never watch from your channel list. Editing a channel list for a user profile has two effects :

- When that user profile is the active profile, it sets which channels are skipped as you change channels with the CH \wedge and CH \vee buttons on your remote control.
- When that user profile is the active profile, it determines which channels appear and do not appear in the Program Guide.

It is possible to tune to a channel directly by pressing the 0 - 9 buttons on your remote control even when that channel is removed from the channel list for that profile.

The Family profile is the master profile — channel restrictions set in the Family profile apply to the entire DIRECTV® System (when the system is locked), regardless of which user profile is active. Channels that are removed from the channel list in the Family profile are “blocked” for all profiles — that is, these channels cannot be viewed even when tuned directly using the 0 - 9 buttons on your remote control.

Here are the steps for editing a channel list:

- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears.
- 3 Highlight the profile containing the channel list you wish to edit (Family, or User 1 - 4), then press the SELECT button. The menu for that user profile appears. The Edit Channel List item is highlighted. Editing the Family channel list changes channel access for all profiles. The All Channels profile cannot be edited.



- 4 Press the SELECT button to start editing the channel list. The Edit Channel List screen appears.

- 5 Edit the list using the controls as described below.
Channels that are removed from the channel list do not appear in the Program Guide, and they are skipped when you change channels with the CH \wedge and CH \vee buttons.

Channels included in the channel list. To remove a channel from the list, highlight it, then press SELECT on your remote control.

Channels not included in the channel list. To add a channel to the channel list, highlight it here, then press SELECT on your remote control.

When you have finished editing the channel list, highlight Back, then press the SELECT button.

Cancel returns you to the previous screen without changing the channel list.

Move all channels into the View list or Block list.

- 6 When you have finished editing the list, highlight the on-screen Back button, then press the SELECT button.

Setting ratings limits

To control the ratings of the programs your family can watch, set ratings limits in the Family profile. Ratings limits set in the Family profile apply to the entire DIRECTV® System no matter which user profile is active (as long as the system is locked). There are various systems used to rate TV programs. Your DIRECTV® HD Receiver allows you to set limits for the following kinds of ratings:

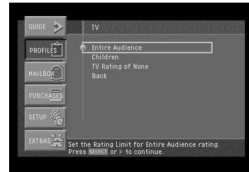
- TV program ratings for the Entire Audience.
- TV program ratings specifically for Children.
- TV program ratings for unrated programs (TV rating of none).
- Movie ratings based on the MPA (Motion Picture Association of America) ratings.

If you have younger TV viewers in your home, you should set the maximum rating for each of these program-types to ensure the most effective ratings control.

Setting the ratings limits for TV programs

To set the maximum viewable TV program rating for the TV programs, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears. The FAMILY profile is highlighted.
- 3 Press the SELECT button to display the FAMILY profile menu. The FAMILY profile menu appears.
- 4 Highlight the Rating Limit menu item, then press the SELECT button. The Rating Limit menu appears.
- 5 Highlight the TV menu item, then press the SELECT button. The TV menu appears.
- 6 Highlight the rating option you wish to set, then press the SELECT button. The screen you selected appears.



- 7 Use the arrow and SELECT buttons on your remote control to select the buttons, ratings, or the specific types of content you wish to block your family from viewing. Programs containing blocked content or that are rated at or above the level you select will be blocked when your system is locked. (See Locking and unlocking your DIRECTV® System later in this chapter.)
- 8 When you have finished setting the ratings on one screen, select the on-screen Back button. You return to the TV menu. From there you can select the next rating type and continue to set the ratings as described in step 7.

Here are descriptions of the ratings and abbreviations used on the Entire Audience rating screen:

- TV-G: General audience. Although not specifically designed for children, most parents would find this program suitable for all ages.
- TV-PG: Parental guidance suggested. This program may not be suitable for younger children.
- TV-14: Parents strongly cautioned. This program may contain material parents would find unsuitable for children under 14 years of age.
- TV-MA: Mature audience only. This program is specifically designed to be viewed by adults, and is therefore unsuitable for anyone under 17 years of age.
- D: Suggestive dialog.
- L: Coarse language.
- S: Intense sexual situations.
- V: Violence.

Here are descriptions of the ratings and abbreviations used on the Children rating screen:

- TV-Y: All children. This program is designed to be appropriate for all children.
- TV-Y7: Directed to older children. This program is designed to be viewed by children age 7 and above.
- TV-Y7-FV: Similar to TV-Y7, but may include strong fantasy violence (such as fighting by animated characters).

The TV Rating of None screen allows you to allow or block programs that are unrated or have a rating of "None."

Setting ratings limits for movies

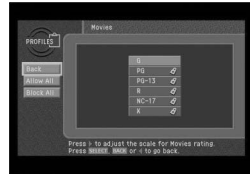
To set the maximum viewable rating for movies, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears. The Family profile is highlighted.
- 3 Press the SELECT button to display the Family profile menu. The Family profile menu appears.

4 Highlight the Rating Limit menu item, then press the SELECT button. The Rating Limit menu appears. Movies is highlighted.

5 Press the SELECT button to display the Movies screen. The Movies screen appears.

6 Use the arrow and SELECT buttons on your remote control to select the ratings you wish to block your family from viewing. Programs that are rated at or above the level you select will be blocked when your system is locked. (See Locking and unlocking your DIRECTV® System later in this chapter.)



7 To unblock all of the ratings and content types, select the on-screen Allow All button. To block all of the ratings and content types, select the on-screen Block All button.

8 When you have finished setting the ratings on the Movies screen, select the on-screen Back button. You return to the Rating Limit menu.

Here are descriptions of the ratings used on the Movies rating screen:

- G: General Audiences. This rating is generally suitable for all audiences.
- PG: Parental Guidance Suggested. Indicates that some parents may find material in this film unsuitable for children.
- PG-13: Parents Strongly Cautioned. Movies with this rating should be investigated by parents before they let children under 13 years of age view the film.
- R: Restricted. Some material not suitable for children 17 years of age or younger. Parents are strongly urged to investigate this film before allowing children to view it with them.
- NC-17: This film contains material that is intended to be viewed by adults only.
- X: This film contains explicit sexual material, and is intended to be viewed by adults only.

Allowing or blocking pay per view purchases

To set whether pay per view programs can be purchased on your DIRECTV® HD Receiver, use the Pay Per View option in the Family profile menu.

The Pay Per View Allow/Block setting in the Family profile applies any time the system is locked, regardless of which user profile is active.

To set your DIRECTV HD Receiver to allow or block pay per view purchases:

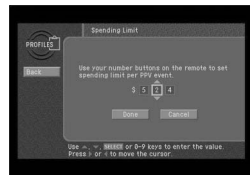
- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears. The Family profile is highlighted.
- 3 Press the SELECT button to display the Family profile menu. The Family profile menu appears.
- 4 Highlight the Pay Per View menu item, then press the SELECT button. A list appears, from which you can choose to Allow or Block pay per view purchases.
- 5 Highlight Allow or Block, then press the SELECT button. The list disappears, and the Pay Per View menu item indicates your choice.
- 6 To clear the Menu from your screen, press the EXIT button on your remote control.



Setting a pay per view spending limit

To limit the dollar amount that can be spent for each pay per view program, use the Spending Limit option in the FAMILY profile menu. Spending Limit sets in the Family profile apply any time the system is locked, regardless of which user profile is active. Here's how to set a spending limit:

- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears. The Family profile is highlighted.
- 3 Press the SELECT button to display the Family profile menu. The Family profile menu appears.
- 4 Highlight the Spending Limit menu item, then press the SELECT button. The Spending Limit screen appears.
- 5 Use the 0 - 9 buttons on your remote control to enter the maximum price allowed for a pay per view program. For example, to block programs that cost over twenty dollars each, you would press 0, 2, 0. As you press the number buttons the highlight moves to the next digit.



- 6 When you have entered the spending limit, highlight the on-screen Done button, then press the SELECT button. Your spending limit will now be in effect when the system is locked. (See Locking and unlocking your DIRECTV® System later in this chapter.)

Setting the screen color and translucency

For each of the profiles, you can set the screen color and translucency level used to display Menu and Guide screens. Screen colors can be set for the Family profile and the four User profiles. You can also choose from four levels of translucency: Translucency can be set for the Family profile and the four User profiles. To set these screen display options use the Screen Color and Translucency menu items in the menu for the profile you wish to change.

Setting the current user profile

To set the current user profile (making that profile's channel list, screen color and screen translucency settings active) follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears.
- 3 Highlight the Set User menu item, then press the SELECT button. The user profile list appears.
- 4 Highlight the profile you wish to make active, then press the SELECT button. When you select a user profile, the list disappears, and the profile you selected becomes the current user profile.
- 5 To exit the Menu, press the EXIT button on your remote control.

NOTE

The user profile can also be changed by pressing the WHO button on your remote control while you are watching TV.

Locking and unlocking your DIRECTV® System

If you have set ratings limits, spending limits, or channel lists for your DIRECTV® System, you need to lock the system to make those settings take effect.

To later change those settings, you will need to unlock the system to access the controls for those settings. Locking the system involves entering a four-digit password.

You will need to remember this password to unlock the system. Write down the password and keep it in a safe place. If you forget your password, call DIRECTV or your service provider for assistance.

To lock or unlock the system, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the PROFILES menu item, then press the SELECT button. The PROFILES menu appears.
- 3 Highlight the Lock System or Unlock System menu item, then press the SELECT button.



When the system is unlocked, the Lock System menu item is displayed. Selecting Lock System displays a screen where you can lock the system.



When the system is locked, the Unlock System menu item is displayed. Selecting Unlock System displays a screen where you can unlock the system.

- 4 Highlight the first digit in the password.
- 5 Use the 0 - 9 buttons, up or down arrow button on your remote control to enter a four-digit password. Then highlight the on-screen Done button and press the SELECT button. If you are locking the system, you will see a second screen asking you to confirm your password (to make sure you entered it correctly). When you have finished locking or unlocking the system, the Lock System/Unlock System screen disappears, and the PROFILES menu is displayed.
- 6 To clear the Menu from your screen, press the EXIT button on your remote control.

Chapter 7: Settings, preferences, upgrades, and extras

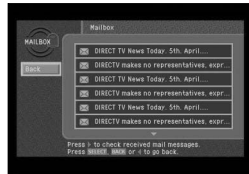
This chapter tells you how to use the DIRECTV menu system to control the way your DIRECTV® HD Receiver operates. Its contents include:

- Reading your mail
- Setting system preferences
- Reviewing and controlling caller ID
- Setting the Local Time options
- Installing a new Access Card
- Viewing important information and a list of features supported by your DIRECTV® HD Receiver
- Viewing information on automatic system upgrades
- Viewing fun system extras
- Remote Control setup

Reading your mail

The MAILBOX menu item allows you to read the mail sent to you by DIRECTV or your service provider. Here's how:

- 1 Press the MENU button on your remote control.
- 2 Highlight the MAILBOX menu item, then press the SELECT button. The MAILBOX screen appears, displaying all of the mail you have received (both read and unread).
- 3 To read one of the pieces of mail, highlight that piece of mail in your mailbox, then press the SELECT button. The selected mail message appears.
- 4 To delete the mail message (permanently removing it from your MAILBOX), highlight the on-screen Delete button and press the SELECT button on your remote control.
- 5 To leave the message in your MAILBOX and return to the MAILBOX screen, highlight the on-screen BACK button and press the SELECT button on your remote control. The mail message disappears, and the MAILBOX screen appears.
- 6 To clear the Menu from your screen, press the EXIT button on your remote control.



Setting system preferences

The Setup menu in your DIRECTV® HD Receiver's Menu system allows you to control many of the functions of the DIRECTV® HD Receiver. The first set of items you can control are system preferences. Specifically, these preferences you can set include:

- The language for the on-screen menu system.
- The screen format to use for widescreen program broadcasts.
- The color of bars in Letter box and Pillar box screen formats.
- The closed caption settings.
- The default screen color for Menu and Guide screens.
- The default translucency for Menu and Guide screens.
- A pair of audio settings (language, and PCM or Dolby Digital for digital audio broadcasts)
- Input source setting

Setting the language for on-screen Menus and Guides

To choose a language for the Menu and Guide screens, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Default Language menu item, then press the SELECT button.
A list of languages you can use for Guide and Menu screens appears.
- 5 Highlight the language you wish to use to display Menu and Guide screens, then press the SELECT button.
A message appears warning you that your DIRECTV® HD Receiver needs to reboot (turn itself off and on) for the Default Language to take effect.
- 6 To change the Default Language to the new setting, highlight the on-screen SELECT button, then press the SELECT button on your remote control.



Setting the screen format

There are two screen formats used in manufacturing TVs and in broadcasting TV programs. These are standard TV format (in which the ratio of the screen width to the screen height is 4:3), and widescreen format (in which the ratio of width to height is 16:9). The Screen Format preference tells your DIRECTV® HD Receiver how to display a program when the program format does not match your TV format. (Chapter 1 contains a discussion of aspect ratios and screen format options.)

To set the Screen Format preference, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
The Setup menu appears.
- 3 Highlight the Preferences menu item, then press the SELECT button.
The Preferences menu appears.
- 4 Highlight the Screen Format menu item, then press the SELECT button.
The Screen Format screen appears.
- 5 Highlight the Select your TV screen Type box, then use the up or down arrows buttons on your remote control to set the screen type to match the type of TV you have.
Choose 4:3 for a standard TV, or 16:9 for a widescreen TV.
- 6 Use the left and right arrow buttons to highlight the format you wish to use to display programs that do not match your TV screen shape.

For standard 4:3 TVs displaying widescreen broadcasts, your choices are:

- **Letter box:** If you choose the letter box format, the 16:9 image is shrunk until the entire width of the program fits on your TV. Since the aspect ratio of the program is maintained, the image is no longer tall enough to fill your screen, so black/gray bars are seen at the top and bottom of the screen.
- **Full:** If you set your DIRECTV® HD Receiver to the Full setting, 16:9 images are stretched to fit the height of the screen, like in the Letter box format. But instead of applying black/gray bars to the top and bottom of the screen, the program image is stretched vertically until it is tall enough to fill your screen. Your entire TV screen is full, but the program images are a little stretched to compensate for the program – to – screen mismatch.



- **Zoom 1:** This format stretches the top and bottom edges of the image at an equal ratio, keeping the 16:9 aspect ratio intact. The left and right portions of the image will be cut.
- **Zoom 2:** This format breaks the 16:9 aspect ratio and stretches the top and bottom edges more than the left and right edges of the image to view less distorted image than the one in Zoom1. The top, bottom, left and right portions of the image will be cut, but less than Zoom 1.



For widescreen 16:9 TVs displaying standard 4:3 programs, your choices are:

- **Pillar box:** If you choose the pillar box format, the 4:3 image is shrunk until the entire height of the program fits on your TV. Since the aspect ratio of the program is maintained, the image is no longer wide enough to fill your screen, so black/gray bars are seen at the left and right edges of the screen.
- **Full:** If you set your DIRECTV® HD Receiver to the Full setting, 4:3 images are stretched to fit the width of the screen, like in the Pillar box format. But instead of applying black/gray bars to the sides of the screen, the program image is stretched horizontally until it is wide enough to fill your screen. Your entire TV screen is full, but the program images are a little stretched to compensate for the program – to – screen mismatch.
- **Zoom 1:** This format stretches the left and right edges of the image at an equal ratio, keeping the 4:3 aspect ratio intact. The top and bottom portions of the image will be cut.
- **Zoom 2:** This format breaks the 4:3 aspect ratio and stretches the left and right edges more than the top and bottom edges of the image to view less distorted image than the one in Zoom1. The top, bottom, left and right portions of the image will be cut, but less than Zoom 1.
- **Panorama:** This format stretches the left and right edges of the image at a certain ratio, keeping the center of the image intact. The center of the screen will keep the equal ratio and the expansion ratio increases toward the horizontal direction at both sides.



7 Highlight the on-screen Back button, and press the SELECT button.

Setting the bar color for Letter box and Pillar box

You can set the color of the horizontal and vertical bars displayed in Letter box and Pillar box screen formats by using the Bar Color option in the Preferences section of the Setup menu. The bar color can be set to either black or gray. The gray bar color is already set and is recommended to avoid screen burn-in. Screen burn-in is a problem that can occur on some TV displays when a dark, stable image is displayed on the screen for an extended period, "burning" the image permanently into the screen. The gray bar color is recommended because lighter colors are less likely to cause burn-in.

Setting the closed caption options

Closed captions are on-screen text versions of the audio content for programs. The Caption item in the Preferences menu allows you to turn closed captions on and off, to set a language for the closed captions, and to choose a closed caption format (CC1, CC2, CC3, or CC4 which may provide varying closed caption displays for some programs).

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Caption menu item, then press the SELECT button. The Caption menu appears.
- 5 Highlight the setting you wish to change, and press the SELECT button. Then use the up or down arrows buttons on your remote control to highlight an option for that setting. Press the SELECT button to confirm your selection.
- 6 To exit the Menu system, press the EXIT button on your remote control.



NOTE

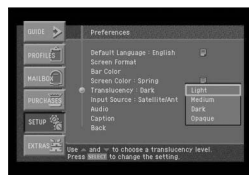
If you select the analog caption, you can select the caption for the external input source and the analog channel. If you select the digital caption, you can select the caption for the digital channel.

Setting the default screen color and translucency

The Screen Color menu item in the Preferences menu allows you to set a default screen color that will be used to display the Menu and Guide screens. There are four color choices named for the four seasons: Spring (green), Summer (blue), Fall (amber), Winter (violet). Screen colors can also be set for the Family profile and the four User profiles; those choices will override the default screen color selection you set here when those profiles are active. The Translucency menu item in the Preferences menu allows you to set a default translucency level that will be used to display the Menu and Guide screens (controlling how much TV program content you can view through the on-screen Menu and Guide screens). You can choose from four levels of translucency: Light, Medium, Dark, and Opaque (no translucency). Translucency can also be set for the Family profile and the four User profiles; those choices will override the default translucency selection you set here when those profiles are active.

To set a default screen color and translucency, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Screen Color menu item, then press the SELECT button. A list appears, showing you the screen color options.
- 5 Highlight a color option, then press the SELECT button. When you select a color, the screen color list disappears, and your color choice is indicated on the Screen Color menu item.
- 6 Highlight the Translucency menu item, then press the SELECT button. A list appears, showing you the translucency options.
- 7 Highlight Light, Medium, Dark, or Opaque. Then press the SELECT button. When you select a translucency option, the Translucency list disappears, and your choice is indicated on the Translucency menu item.



Selecting an Input Signal

You can use to view a signal from an external source, such as a VCR.

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Input Source menu item, then press the SELECT button.
The Input Source menu appears. The Input Source menu item is highlighted.
- 5 Press the SELECT button on your remote control to display the list of available Input sources.
A list of input source appears.
- 6 Highlight the input source you wish to use, then press the SELECT button.
A list appears from which you can choose Satellite/Antenna Component, S-Video, or Video.

When you select an input source, the list disappears.
Your selection is indicated in the Input Source line on the Input Source menu.



For easy selection, press TV/VIDEO button on the Remote Control unit.

Setting the Default Language preference

Programs broadcast with digital audio often provide a number of language choices. This preference setting tells your DIRECTV® HD Receiver which language to use for digital audio broadcasts offering a choice of formats.

To set the Default Language preference, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Audio menu item, then press the SELECT button.
The Audio menu appears. The Default Language menu item is highlighted.
- 5 Press the SELECT button on your remote control to display the list of available languages.
A list of languages appears.
- 6 Highlight the language you wish to use for digital audio broadcasts, then press the SELECT button.
When you select a language, the language list disappears.
Your selection is indicated in the Default Language line on the Audio menu.



Setting the Digital Out format

If you are using the optical digital audio out jack to connect your DIRECTV® HD Receiver to a digital audio receiver, you should use this preference setting to tell your DIRECTV® HD Receiver whether your audio receiver processes PCM digital audio signals or Dolby Digital audio signals. See the manual for your audio receiver if you are not sure.

To set the Digital Out format preference, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Audio menu item, then press the SELECT button.
The Audio menu appears.
- 5 Highlight the Digital Out menu item, then press the SELECT button.
A list appears from which you can choose Dolby Digital or PCM audio formats.
- 6 Highlight the format supported by your audio receiver, then press the SELECT button.
When you select a format the Digital Out list disappears.
Your selection is indicated in the Digital Out line on the Audio menu.



Setting the analog out preference

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)

To set the Analog Audio preference, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Audio menu item, then press the SELECT button. The Audio menu appears. The Analog Audio menu item is highlighted.
- 5 Press the SELECT button on your remote control to display the list of available audio format. A list of audio format appears.
- 6 Highlight the audio format you wish to use, then press the SELECT button. A list appears from which you can choose Mono, Stereo, or SAP. When you select an audio format, the list disappears. Your selection is indicated in the Analog Audio line on the Audio menu.



Guide to MTS Settings

- Choose Stereo for channels that are broadcasting in stereo.
- Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

Setting the Default Type audio

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Preferences menu item, then press the SELECT button.
- 4 Highlight the Audio menu item, then press the SELECT button.
The Audio menu appears.
- 5 Highlight the Default Type menu item, then press the SELECT button.
A list of Default Type appears from which you can choose Dolby Digital or MPEG audio.



Reviewing and controlling Caller ID

The Caller ID item in the Setup menu allows you to view a list of calls that you have received on the telephone line connected to your DIRECTV® HD Receiver. It also allows you to control whether the Caller ID feature is turned on or off. The Caller ID feature only works if you subscribe to the caller ID service provided by your local telephone service.

Turning the Caller ID feature on or off

To control whether your DIRECTV® HD Receiver captures caller ID information, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the SETUP menu item, then press the SELECT button.
- 3 Highlight the Caller ID menu item, then press the SELECT button. The Caller ID menu appears.
- 4 Highlight the Display Caller IDs menu item, then press the SELECT button. A list appears, allowing you to select whether you would like the Caller ID feature to be On or Off.



- 5 Highlight On or Off from the list, then press the SELECT button. The list disappears, and the Display Caller IDs menu item on the Caller ID menu reflects your choice.

NOTE

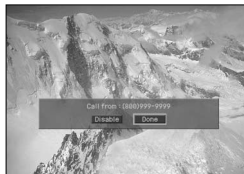
Caller ID messages for incoming calls that occur while you are taping a program will be recorded on your tape. You might want to turn Caller ID off while you are recording a program.

Identifying callers

With Caller ID turned on, when a call is made to the phone line connected to your DIRECTV® HD Receiver, a message appears on your TV screen telling you the number of the caller.

To clear the message from your screen, press the SELECT button.

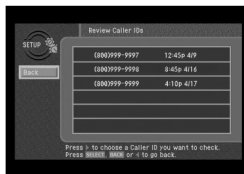
To set your DIRECTV® HD Receiver not to display caller ID messages, highlight the on-screen Disable button, then press the SELECT button.



Reviewing your Caller ID list

To see a list of calls you have received, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Caller ID menu item, then press the SELECT button. The Caller ID menu appears.
- 4 Highlight the Review Caller IDs menu item, then press the SELECT button. The Review Caller IDs screen appears. The calls on the list are sorted in time order.
- 5 To see details about any of the listed calls, highlight the call from the list, then press the SELECT button.



A screen appears displaying the total number of calls received from that phone number and the times and dates for the three most recent calls.

- 6 To delete a Caller ID record, highlight the on-screen Delete button, then press the SELECT button.
- 7 To return to the Review Caller IDs list, highlight the on-screen Back button, then press the SELECT button.



Setting the Local Time options

The Local Time setting (in the Installation section of the Setup menu) allows you to control whether to allow your service provider to automatically control two time settings:

- the time zone your DIRECTV® HD Receiver uses, and
- whether your DIRECTV® HD Receiver observes Daylight Savings Time.

If you turn the Local Time Setting on, you can choose a time zone and decide whether or not to observe Daylight Savings Time.

With the Local Time setting off, your service provider automatically controls these settings for you.

Follow these steps to turn the Local Time Setting on or off, and (if you turn it on) to set your Time Zone and Daylight Savings Time observance.

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the Local Time menu item, then press the SELECT button.
- 5 To change the Local Time Setting, highlight it using the arrow buttons on your remote control, then press the SELECT button. A list appears from which you can indicate whether you want the local time setting on (you set the time zone and daylight savings time observance), or off (your program provider controls the time settings).



- 6 Highlight On or Off, then press the SELECT button. The list disappears, and the Local Time Setting menu item reflects your choice. If you turn the Local Time Setting off, the Time Zone and Daylight Savings Time options are controlled by your program provider; these menu items become unavailable. If you turn the Local Time Setting on, continue with the following steps to set your time zone and whether you wish to observe daylight savings time.

- 7 Highlight Time Zone menu item, then press the SELECT button.
A list appears from which you can choose your local time zone.

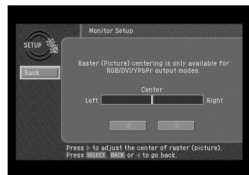


- 8 Highlight your Time Zone, then press the SELECT button.
The list disappears, and the Time Zone menu item reflects your choice.
- 9 Highlight the DST Observation menu item, then press the SELECT button.
A list appears from which you can choose to turn Daylight Savings Time observance on or off.
- 10 Highlight On or Off, then press the SELECT button.
The list disappears, and the Status line indicates either DST in effect or Standard time in effect.

Adjusting the Raster (Picture) Centering

In this menu you can adjust the Raster (picture) on the monitor to be centered. The Raster (picture) centering is only available for RGB/DVI/YpBPr output modes.

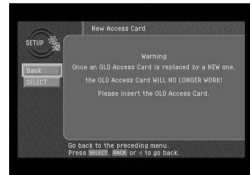
- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the Monitor Setup menu item, then press the SELECT button.
- 5 Press Right arrow button to adjust the center of raster (picture).
- 6 Press SELECT to move left or right center of raster (picture) on the monitor device.



Installing a new Access Card

Your DIRECTV service provider may send you a new, replacement Access Card. When you receive a new card, follow these steps to continue your DIRECTV® service without interruption:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the New Access Card menu item, then press the SELECT button.
The New Access Card screen appears.
- 5 To start replacing your Access Card, highlight the on-screen SELECT button, then press the SELECT button. On-screen instructions tell you how to replace your old card with the new one. Follow these instructions.



Setting Remote control type

The DIRECTV® HD Receiver supports both IR remote (default) and RF remote (optional). You can use this menu to set the type of the remote to use. Most of the cases, it is recommended to set as IR & RF. However, sensitivity of the IR remote can be deteriorated in the area where much RF noise or other noise occurs. In this case, set to the IR remote.

To set the remote control type setting, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the Remote Control Setup menu item, then press the SELECT button.
The Remote Control Setup menu appears.



- 5 Highlight the Remote Control Type menu item, then press the SELECT button.
A list appears from which you can choose Remote Control Type.

IR: Select this option when you have only one IR remote.

RF: Select this option when you have only one RF remote.

IR & RF: Select this option to use both IR remote and RF remote.



- 6 Move the highlighted bar to the intended setting value using the arrow button and press the SELECT button.
Then, the warning message will appear on the screen.

NOTE 1

If you select the IR remote, your RF remote will be disabled. If you have a RF remote, press the [Cancel] button in the message window that appears after this operation.

NOTE 2

If you select the RF remote, your IR remote will be disabled.

If you have a RF remote, it is recommended to set the RF remote control ID first and change this menu. Press the [Cancel] button in the message window that appears after this operation.

7

You may select [Done] or [Cancel] in the warning message window.

Select the [Done] and press the [Select] button to complete selection of the remote control to use.

8

When you have finished setting the remote control type screen, select the on-screen Back button.

NOTE

The factory setting for the remote control type is IR & RF.

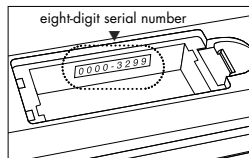
If you set the remote control type to RF and use the IR remote control only, the IR remote control may not work.

Use the keys in the front panel to enter the menu and set the remote control type as IR & RF.

Setting RF Remote Control ID (Optional)

This set-up procedure only pertains to the optional Samsung RF remote. You should set the ID number for your own RF code transmission to use the RF remote. To set the RF remote control ID setup, follow these steps:

- 1 Press the MENU button on your remote control.
- 2 Highlight the Setup menu item, then press the SELECT button.
- 3 Highlight the Installation menu item, then press the SELECT button.
- 4 Highlight the Remote Control Setup menu item, then press the SELECT button. The Remote Control Setup menu appears.
- 5 Highlight the RF Remote Control ID menu item, then press the SELECT button.
- 6 Input eight-digit serial number to enter into the RF remote control ID menu as shown in the below figure. The eight-digit serial number is displayed inside the battery box of the RF remote control unit.
- 7 Input all of the eight-digit serial number displayed inside the remote battery box using the numeric button or the arrow key. Then, move the highlighted bar to the [Done] and press the SELECT button.



- 8 Press the SELECT button to finish setting when the "Setting complete successfully" message appears.
- 9 When you have finished setting the RF remote control ID screen, select the on-screen Back button.

Viewing important information and a list of features supported by your DIRECTV® HD Receiver

The System menu allows you to view a list of important details about your DIRECTV HD Receiver, as well as a list of features supported by your DIRECTV HD Receiver. To view this information, use the System Information and System Features items in the System portion of the Setup menu.

Viewing information on automatic system upgrades

The System Upgrades menu item in the System menu provides information about the current software on your DIRECTV HD Receiver, and a history of when previous upgrades have been downloaded to your Receiver. To View this information, use the System Upgrades item in the System portion of the Setup menu.

Viewing fun system extras

The Extras menu contains a useful calendar, a fun biorhythm charting tool, and games you can play. To view the system extras on your DIRECTV HD Receiver, use the items in the Extras menu.

Testing the DIRECTV® HD Receiver

The System Test feature allows you to quickly check the status of the satellite signal, your Access Card, and your phone line connection. This is helpful while troubleshooting any problem you may experience with your DIRECTV HD Receiver.

Chapter 8: Programming the remote control

This chapter explains how to program your remote control so that you can use it to operate your TV, VCR, or other A/V equipment. Chapter sections include:

- Programming the remote control
- Operating a device with your programmed remote control
- Code lists

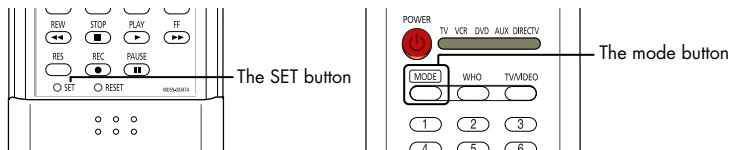
Programming the IR remote control

Your DIRECTV® HD Receiver's remote control can be programmed to operate your TV, VCR, DVD player and other A/V equipment. You use the code lists provided in this chapter to enter the code for your brand of TV, VCR, etc.

Method

To use the manual method to program your DIRECTV® HD Receiver's remote control, follow these steps:

- 1 Turn on the device you want to control.
- 2 Aim the DIRECTV® HD Receiver's remote control at the device.
- 3 After pressing a device mode button to operate the remote control in a desired device mode (for example, when TV is selected, first LED will light on.), press the SET button once again with a sharp thing, like pen. The LED of selected device lights up.



-
- 4** Enter the three-digit code for your device (see the code lists on the following pages). If the entered code is correct, the device will be turned off. If the brand number that you have pressed is not correct, the device will not be turned off. Enter the three-digit code again (The LED still lights up).
-
- 5** If the device is turned off, press the SET button again to save your brand number in the remote control.
-
- 6** Repeat the procedure for other devices you wish to operate with your DIRECTV® HD Receiver's remote control.
-

Operating a device with your programmed remote control

To operate a device using your programmed remote control, you should turn on the LED of the device using the MODE button. (TV, VCR, DVD, AUX, or DIRECTV). Then use the remote control to operate that device. The remote control will continue to operate that device until you press the MODE button twice. Each time you want to button to a different device with your remote control, set the intended device using the MODE button before starting.

Programming the RF remote control (optional)

This chapter explains how to program your RF remote control so that you can use it to operate your TV, VCR. Chapter sections include:

- Programming the RF remote control
- Operating a device with your programmed remote control

Programming the RF remote control

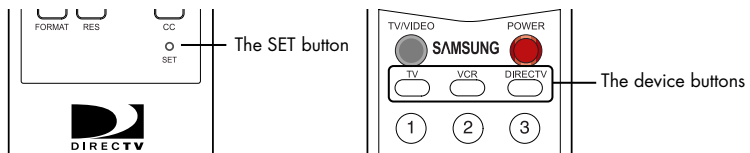
Your DIRECTV® HD Receiver's remote control can be programmed to operate your TV, VCR.

You use the code lists provided in your "RF Remote Control" manual to enter the code for your brand of TV, VCR.

Method

To use the manual method to program your DIRECTV® HD Receiver's remote control, follow these steps:

- 1 Turn on the device you want to control.
- 2 Aim the DIRECTV® HD Receiver's remote control at the device.
- 3 After pressing a device button to operate the remote control in a desired device mode, press the SET button once again with a sharp thing, like pen. The device button lights up.



-
- 4 Enter the three-digit code for your device (see the code lists on the "Remote Control" manual). If the entered code is correct, the device will turn off.
-
- 5 Press the device button again. The button should blink twice and then turn off.
-
- 6 Repeat the procedure for other devices you wish to operate with your DIRECTV® HD Receiver's RF remote control.
-

Operating a device with your programmed remote control (RF)

To operate a device using your programmed RF remote control, you must first press the corresponding device button (TV, VCR or DIRECTV).

Then use the RF remote control to operate that device.

The RF remote control will continue to operate that device until you press another device button. Each time you want to button to a different device with your RF remote control, you start by pressing a device button.

NOTE

When working with the TV and VCR device remote control, the IR signal will be transmitted. Therefore, you need to at the device to work with.

Code lists

Use these lists to find the codes you need to program your DIRECTV® HD Receiver's remote control to operate your other A/V devices. For brands with multiple codes listed, try the codes in order until you find one that works for your device.

TV		TV (continued)	
Brand names	Code numbers	Brand names	Code numbers
ADMIRAL	072 081 160 161	EMERSON	004 005 028 043
A MARK	112 143		047 048 050 051
AKAI	070 146		076 120 143 151
AMSTRAD	052		153 154 155 070
ANAM	043 054 056 080		096 191
	112	FISHER	007 057
AOC	070 004 058 112	FUJITSU	198
AUDIOVOX	076 120	FUNAL	028 043
BLAUPUNKT	088	FUTURETECH	043
CAIRN	206	GE	160 165 161 070
CANDLE	070 002 003 004		008 009 034 056
CAPEHART	058		073 074 130 155
CCE	001 004 024		167
CETRONIC	043		004 145
CITIZEN	070 002 003 004	GOLDSTAR / LG	004 106 110 112
	043 101 103 143		119 127 143 193
CLASSIC	043	GRADIENTE	004 038 106
CONCERTO	004	HALL MARK	004
CONTEC	043 050 051	HITACHI	011 004 009 010
CORONADO	143		012 023 075 143
CRAIG	043 054 191		007 072 158
CROWN	043 143	INFINITY	164
CURTIS MATHES	070 101 143 004	JBL	164
CXC	043	JCPENNEY	070 004 008 009
DAEWOO	076 103 004 016		030 065 101 160
	043 114 120 127		024 143 156
	143 128 136 192	JENSEN	013
	044	JVC	038 001 083 034
DAYTRON	004 143		199
DYNASTY	043	KEC	043
DYNATECH	062	KENWOOD	070 001
ELECTROHOME	024 076 120 143	KLOSS	002 059
		KMC	143
		KTV	043 143 154 070
		LODGENET	072

TV (continued)

Brand names	Code numbers
LOGIK	072
LAUXMAN	004
LXI	007 015 052 081 160
MAGNAVOX	164 059 070 003 004 060 061 063 064 022 094 127 160
MARANTZ	070 164
MATSUI	164
MEMOREX	004 007 072
METZ	088
MGA	024 070 004 024 028 042
MINERVA	088
MITSUBISHI	024 004 040 042 028 146
MTC	070 004 062 101
NAD	015 025
NEC	070 040 016 056 024 130 134 019 004
NIKEI	043
ONKING	043
ONWA	043
OPTONICA	019 081
ORION	201 202 203 204 205
PANASONIC	034 080 056 164
PHILCO	164 070 003 059 060 064 004 056 063 024
PHILIPS	164 093 038 005 059 127 070 003 004
PIONEER	025 070 004 018 023 190
PORTLAND	004 143 065
PROSCAN	160 161 167 145 065

TV (continued)

Brand names	Code numbers
PROTON	004 058 112 143 171 173
QUASAR	034 056 080 164
RADIO SHACK	004 019 043 127 143
RCA	160 161 145 167156 165 065 070 004 023 024 056 074 152
REALISTIC	007 019 043 047
RUNCO	072 130
SAMPO	207 070 004 058
SAMSUNG	000 101 004 050 089 105 160 127 143 133
SANYO	007 020 053 057 082
SCOTT	004 028 043 048 143
SEARS	015 030 028 094 004 007 057 082 143 160 167
SELECO	200
SHARP	081 004 014 019 022 028 143
SIEMENS	088
SIGNATURE	072
SONY	001 085 126 166 079
SOUNDESIGN	028 003 004 043
SPECTRICON	112
SSS	004 043
SUPRE MACY	002
SYLVANIA	070 003 059 060 063 064 127 160 164 044
SYMPHONICS	194 052
TANDY	081
TATUNG	056 062
TECHNICS	034 080
TECHWOOD	004

TV (continued)

Brand names	Code numbers
TEKNIKA	002 003 004 024
	028 043 072 101
	143
TELERENT	072
TERA	173
TMK	004
TOSHIBA	015 030 007 040
	062 101
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDTECH	004
WARDS	004 019 064 008
	009 028 060 061
	063 072 074 143
	164 165
WESTING HOUSE	076 120
YAMAHA	070 004
YORK	004
YUPITERU	043
ZENITH	072 073 095 103
ZONDA	112

VCR

Brand names	Code numbers
AIWA	034
AKAI	016 043 046 124
	125 142 146
AMPRO	072
ANAM	031
AUDIO DYNAMICS	012 023 039 043
BROOKSONIC	035 037 044 129
	152
CANON	028 031
CAPEHART	108
CRAIG	003 040 135
CURTIS MATHES	031 041 156
DEAWOO	117 119 005 116
	007 010 065 108
	110 112

VCR (continued)

Brand names	Code numbers
DAYTRON	108
DIMENSIA	156
DBX	012 023 039 043
DYNATECH	034 053
ELECTROHOME	059
EMERSON	006 029 035 025
	027 034 036 037
	046 101 129 131
	138 017 031
	044 152 153 157
FISHER	003 008 009 010
FUNAI	034
GE	031 072 144 147
	063 151 107 109
	156 126
GO VIDEO	040 132 136
GOLDSTAR / LG	101 123 012 001
	114
HARMAN KARDON	012 045
HITACHI	001 026 034 063
	137 150 156
HUGHES	001
INSTANTREPLAY	031
JCL	031
JCPENNY	012 001 040 101
	156 066
JENSEN	043
JVC	048 050 043 130
	060 012 031 150
	055 158
KENWOOD	014 034 047 048
	023
LLOYD	034
LXI	034 003 009 017
MAGIN	040
MAGNAVOX	067 031 034 041
	068 154 160 064
MARANTZ	067 069 031 067
	012 023
MARTA	101

VCR (continued)

Brand names	Code numbers
MATSUI	027 030
MEI	031
MEMOREX	102 101 003 010 014 031 034 053 072 139 134
MGA	045 046 059
MINOLTA	001 156
MITSUBISHI	059 061 046 051 142 001 045 162
MTC	034 040
MULTITECH	024 034
NEC	012 023 043 048 039
NORDMENDE	043
OPTONICA	053 054
PANASONIC	070 133 031 066 160 161
PENTAX	001 031 063 156
PHILCO	031 034 067
PHILIPS	031 067 034 101 054 071
PILOT	101
PIONEER	021 001 048
PORTLAND	108
QUARTZ	002 014
QUASAR	070 133 161 031 066 160
RADIO SHACK	123
RCA	107 109 144 147 151 001 041 034 040 156 031 140
REALISTIC	003 008 010 014 031 034 040 053 054 101
RICO	058 078
SALORA	014
SAMSUNG	000 040 032 104 107 109 112 113 115 120 122 125 159

VCR (continued)

Brand names	Code numbers
SANSUI	043 048 135 022
SANYO	003 010 102 007 014 134
SCOTT	017 037 044 129 131 112 159
SEARS	003 008 009 010 001 014 017 081 101
SHARP	031 054 053
SHINTOM	024
SIGNATURE	034
SONY	056 057 058 003 052 149 031 155
SOUNDESIGN	034
STS	001
SYLVANIA	031 059 034 067
SYMPHONIC	034
TANDY	010 034
TATUNG	039 043 023
TEAC	034 039 043 023
TECHNICS	031 070
TEKNIKA	031 019 034 101
TMK	006
TOSHIBA	112 008 131 047 059 082 001 042
TOTEVISION	040 101
UNITECH	040
VECTOR RESEARCH	012
VIDEO CONCEPTS	012 046 034 141
VIDEOSONIC	040
WARDS	003 001 024 031 034 040 053 054 017 131
YAMAHA	012 043 034 039
ZENITH	072 080 056 048 034 101 058

AUX-AUDIO

Brand names	Code numbers
ADCOM	146 149 227 244
AMC	083 084
ARCAM	100
AUDIO FILE	093 098
AUDIO TECHNICA	221
AIWA	111 114 117 156 170 199 203 219 231 241 254
AKAI	181 233
ANAM	180
BOSE	064 137 219
B & K	150 152
CARVER	013 098 107 126 129 160 163 220 245 249
CLARION	151 169
DENON	101 133 191 202 208 246 247
Enlightened Audio	078 153
FISHER	107 129 157 163 176
Fosgate Audionics	228 248
GE	216 123
HARMAN KARDON	073 195 248 249
HAITAI	119
HITACHI	088
JCPENNY	109 154 178
JENSEN	099
JERROLD	141
JVC	112 198 252
KENWOOD	096 104 119 125 148 151 163 171 173 242
KRELL	223
LEXICON	215 250
LUXMAN	066 120 205 229
LXI	123 177
MAGNAVOX	126 162 185 186 224 228

AUX-AUDIO (continued)

Brand names	Code numbers
MARANTZ	074 105 126 128 139 155 162 186 232
MCINTOSH	251
MONDIAL	069 225
MCS	178
MITSUBISHI	253
MERIDIAN	013 067
NAD	128
NAKAMICHI	072 212 234 235
NILES	236
ONKYO	094 115 116 209 211 255
OPTIMUS	121 125 140 181
PANASONIC	131 144 187 200
PARASOUND	085 086 090
PHILIPS	136 186 126 197
PIONEER	093 132 138 210 165 189 195 201 081 230
QUASAR	131 187
RCA	109 213 166
REALISTIC	103 122 123 124 172 174 177 179 180 194
ROTEL	204 218 239
SANSUI	196 214 126 139 075 197
SANYO	157 129
SAMSUNG	068
SCOTT	180 190
SHARP	096 125 151 161 169 182 193
SHERWOOD	089 127
SONY	097 117 147 183 200 253 237 238 188 192
SOUNDSTREAM	197
STARCOM	141
SYMPHONIC	124

AUX-AUDIO (continued)

Brand names	Code numbers
TEAC	102 159 180 062
TECHNICS	131 184 187 200
	202 208 165
TOSHIBA	175
WARDS	163
YAMAHA	092 120 166 240
	125 169 216
ZENITH	222 061

DVD (continued)

Brand names	Code numbers
RCA	035 036
SAMSUNG	000 040
SHARP	004
SONY	037
TOSHIBA	038 001 206
YAMAHA	039 079
ZENITH	028 041

AUX-CATV

Brand names	Code numbers
HAMLIN	015 017 022
JERROLD / G.I	010 021 025
OAK	008 016 023
PIONEER	007 026 027
Scientific/Atlanta	002 006 013
TOCOM	003
ZENITH	004

DVD-LDP

Brand names	Code numbers
CALIFORNIA AUDIO	047
DENON	043 044
FISHER	047
KENWOOD	060
MAGNAVOX	048 057
MITSUBISHI	057
NAD	057
PANASONIC	047 051 054
PHILIPS	048
PIONEER	055 057
QUASAR	047
RCA	046
SANYO	052
SHARP	060
SONY	050 053
TECHNICS	047 051 054
TOSHIBA	060
YAMAHA	045 059

DVD

Brand names	Code numbers
ALPINE	009
APEX DIGITAL	075 076
DENON	030 226
GE	035 036
GOLDSTAR / LG	028 041
HARMAN KARDON	217
HITACHI	011
JVC	031
MAGNAVOX	038 042 008
MARANTZ	006 007
MITSUBISHI	032
NAD	077
ONKYO	207
PANASONIC	003 039
PHILIPS	038 042 006 007
PIONEER	034 005 010
PROSCAN	035 036

Appendix: Troubleshooting and specifications

Use the tips below to help solve any problems you have with the DIRECTV® HD Receiver:

Troubleshooting

Q	A
I have no picture and no sound and the POWER light does not light.	Make sure your DIRECTV® HD Receiver is plugged into a working power outlet. If the outlet is switched, make sure it is turned on. If your DIRECTV® HD Receiver is plugged into a power strip, make sure it is plugged in and turned on. Check the batteries in the remote control.
I have sound but no picture.	Make sure your TV input (A/V mode) is set properly. Make sure the A/V cables are properly connected.
I have picture but no sound.	Make sure the TV is not being muted.
I have no picture and no sound.	Make sure the TV is turned on. Make sure your DIRECTV® HD Receiver is turned on. Make sure your Access Card is inserted properly into your receiver. Check the signal strength from the satellite (see Checking the satellite signal strength in Chapter 3). Make sure the coaxial cable is properly connected to the satellite dish. Check the connections between your DIRECTV® HD Receiver and your TV. Turn your receiver off, unplug it, wait 10 to 20 seconds, then plug it back in, and turn it on.
The top and bottom of the program image is cut off.	If you connect your TV to one of the composite video out jacks (Video Out, S-Video Out, or TV out), and you view a high-definition program with the DIRECTV® HD Receiver's RESOLUTION button set to either 720p or 1080i, the picture will be slightly cropped at the top and bottom (the very top and bottom edges of the image will not appear on the TV screen). To avoid this problem, set the RESOLUTION button to the 480p/i position if your TV is connected to one of the composite video outputs.
I see the message on my TV: “(Due to) Copyright restrictions.....”	This means that the program you are trying to watch may not be viewed on some outputs. Use a different connection from the DIRECTV® HD Receiver to your TV. See the section Connecting your DIRECTV® HD Receiver in Chapter 3 for more information.

(continued...)

Q	A
I do not see any video with my TV connected to the DVI OUT jack.	If your TV has a DVI input jack, but is not HDCP compatible, you may not be able to view video from your DIRECTV® HD Receiver's DVI OUT jack. You need to connect your TV using one of the other video output jack on the DIRECTV® HD Receiver.
I see overlapping closed caption displays for some programs.	If you turn on closed captions on both your DIRECTV® HD Receiver and your TV, you may see overlapping closed caption displays. To avoid this problem, turn on closed captions on either the TV or the DIRECTV® HD Receiver, not both.
I have a frozen screen and the POWER button doesn't work.	Unplug your receiver for 10 to 20 seconds; then plug it back in and turn it on. Check the batteries in the remote control.
I cannot view a program.	Make sure your subscription includes the channel you want to watch. Call your service provider if you are not sure. Make sure your system is not locked by looking for the locked icon (🔒) in the channel banner.
I cannot purchase a pay per view program.	It may be too late to purchase the program. Try purchasing another showing of the same program. Make sure the telephone line is properly connected. If your system is locked, make sure the purchase does not exceed your spending or rating limit. Your Access Card may be full. Call your service provider for assistance.
I forgot my password.	If you have forgotten your password, call your service provider for assistance.
The left/right side of the screen does not match with the TV in the RGB/DVI mode.	You can adjust left/right side of the screen using this function because different TV vendor uses a different screen offset. Use the "Monitor Setup" menu in the installation menu. The default setting is "Samsung Electronics DLP products".
The IR or RF remote control does not work after setting up the remote control type.	Use the keys in the front panel to enter into the menu and set the remote control type as IR & RF. See the page 102 for more details on setting the remote control type.

Specifications

Here are the technical specifications for the DIRECTV® HD Receiver.

Power supply

Input Voltage	AC 120V, 60Hz (SMPS type)
Power Consumption	37W max

Physical Specification

Size (W X H X D)	16.93 in.(W) X 2.64in.(H) X 12.28 in.(D) (430mm x 67mm x 312mm)
Weight (Net)	3.51 Kg (around 7.74 lbs.)
Operation Temp	+32° F (0° C) to +104° F (+40° C)
Storage Temp	-40° F (-40° C) to +150° F (+66° C)

Video Decoder

Transport stream	MPEG-2 ISO/IEC 13818
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Audio Decoder

Audio Decoding	MPEG Layer II & Dolby Digital
Sampling Frequency	48 kHz

Input/Output Interface

LNB	1 input (SATELLITE IN)
RF input	2 input(AIR IN, CABLE IN)
Video output	2 RCA / Cinch 1 Component video output (Y, P _B , P _R) 1 RGB output 1 DVI output 1 S-Video
Video input	1 Component 1 Video 1 S-Video
Audio output	4 RCA / Cinch (2 pairs X Left & Right), 1 Optical digital audio output 1 Coaxial digital audio output
Audio input	4 RCA / Cinch (2 pairs for L/R)
VCR control	1 VCR control output
Modem	RJ 11 connector
Resolution select button	480p/i, 720p, 1080i, Native 1, Native 2, Native 3
Output mode button	DVI, RGB/Y, P _B , P _R
Access Card	1 Access Card slot
RF Remote (optional)	1 RF Remote Receiver 1 RF Remote Control

Accessories

Cables:	1 phone cable 1 A/V (RCA) cable 1 S-VIDEO cable 1 Component cable 1 VCR control cable
Remote control	1 universal remote control (with 2 batteries)
Card	1 Conditional Access Card
Manual	1 Owner's manual
Optional	RF remote control (SRC-S401RF/A) RF remote receiver (SRC-S401RF/B)

Specifications are subject to change without notice.



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