

DIRECTV ***Digital Satellite Receiver***

Operating Instructions

Before you begin using your Digital Satellite Receiver for the first time, follow the instructions in "Getting Started" on pages 1-6.

Also, make sure your Satellite Dish Antenna has been properly installed and call your service provider to begin service: DIRECTV: 1-800-DIRECTV (347-3288)



SAT-A65
SAT-B65

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DIRECTV System hardware and installation

To arrange for professional installation of your DIRECTV System, ask questions, or resolve problems related to your DIRECTV System, contact your dealer. If you need more information, please contact the Sony Satellite System Information Center at 1-800-838-7669.

Please record the following information for warranty

System Model #: - _____

Receiver Model #: _____

Receiver Serial #: _____

Access Card #: _____

Important Safety Instructions

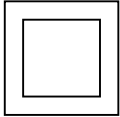
For your safety and protection, read this entire Owner's Manual before you attempt to install or use your satellite system. In particular, read this safety section carefully. Keep this safety information where you can refer to it if necessary.

Heed Cautions—All cautions on the product and in the operating instructions should be adhered to.

Follow Instructions—All operating and use instructions should be followed.

THESE CAUTIONS AND SYMBOLS APPEAR ON THE BACK OF THE RECEIVER

WARNING or CAUTION



Double insulated systems are protected by additional board clearances and creepage, so that the unit will not be a safety hazard to the end-user.



IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is 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 the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use 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.



INSTALLATION

Polarization – This DIRECTV Receiver is equipped with a plug that will fit into the power outlet only one way. Do not modify the plug defeating this feature. If the plug does not fit, contact your electrician to replace your outlet. To prevent electric shock, do not use this plug with an extension cord or outlet unless you can fully insert the blades without blade exposure

Power Sources – Operate this DIRECTV Receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

Power-Cord Protection – Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.

Ventilation – Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

The openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.

For electrical safety, power line operated equipment or accessories connected to this unit should bear the UL listing mark and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

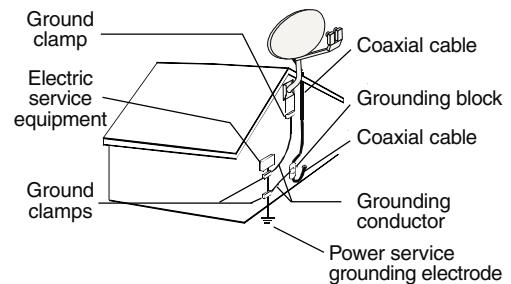
Heat—Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Accessories – To avoid personal injury or damage to the DIRECTV Receiver, do not place the DIRECTV Receiver on any unstable cart, stand, table, or bracket. Any mounting of the product should follow the manufacturer's instructions.

Attachments – Do not use attachments unless recommended by DIRECTV as they may cause hazards.

Satellite Dish Antenna Grounding – The outdoor satellite dish antenna used to receive satellite signals and the cable used to connect the satellite dish antenna to the indoor receiving unit are required to comply with local installation codes and the appropriate sections of the National Electric Code (NEC) and in particular Article 810-15, which covers proper installation and grounding of television receiving equipment, as well as to Article 820-33, which specifies that the satellite dish antenna cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical. These codes require proper grounding of the metal structure of the outdoor satellite dish antenna and grounding of the connecting cable at a point where it enters the house (or other building). If you are having a professional installer perform the installation, the installer must observe installation codes. This manual contains instructions on how to make the installation in compliance with the NEC. If additional local installation codes apply, contact local inspection authorities.

Example of Antenna Grounding according to the National Electrical Code instructions contained in "Radio and Television Equipment".



Note: The DIRECTV Receiver shall be grounded through the satellite/local antenna cable before plugging into the telephone jack, and it must remain grounded thereafter.

Water and Moisture – WARNING! To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

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

Television Antenna Information – Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer. Do not locate the outside antenna system in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits, as contact with them might be fatal. If an outside antenna is connected to the DIRECTV Receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. This DIRECTV Receiver is equipped with a plug that will fit into the power outlet only one way. Do not modify the plug defeating this feature. If the plug does not fit, contact your electrician to replace your outlet. To prevent electric shock, do not use this plug with an extension cord or outlet unless you can fully insert the blades without blade exposure. Section 810 of the NEC, NFPA No. 70 1987, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Power Lines – Extreme care must be taken when installing and adjusting or maintaining the outdoor antenna and connecting cable, especially in the vicinity of overhead power lines, electric lights, or power circuits. When installing the outdoor antenna or cable, extreme care should be taken to keep from touching or approaching such power lines or circuits, as contact with them might be fatal.

Cleaning – Unplug this receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use only a damp cloth for cleaning.

Object and Liquid Entry – Never push objects of any kind into this DIRECTV Receiver through openings as they may touch dangerous voltages or "short out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the receiver. No objects filled with liquids, such as vases, shall be placed on the apparatus.

SERVICE

Servicing—Do not attempt to service this DIRECTV Receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

Conditions Requiring Service—Unplug the DIRECTV Receiver from the wall outlet and refer servicing to qualified personnel under the following conditions:

- When the power supply cord or plug has been damaged.
- If liquid has been spilled on, or objects have fallen into, the DIRECTV Receiver or it has been exposed to water.
- If the DIRECTV Receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Other adjustments may result in damage and will often require extensive work by a qualified technician to restore the DIRECTV Receiver to its normal operation.
- If the DIRECTV Receiver has been dropped or the cabinet has been damaged.
- When the DIRECTV Receiver exhibits a distinct change in performance.

Replacement Parts—When replacement parts are required, have the technician verify that the replacements being used have the same safety characteristics as the original parts.

Use of replacement parts specified by the manufacturer can prevent fire, electric shock, or other hazards.

Safety Check—Upon completion of any service or repairs to this DIRECTV Receiver, ask the service technician to perform safety checks recommended by the manufacturer to determine that the DIRECTV Receiver is in safe operating condition.

Your DIRECTV 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 Upgrade menu to find a schedule of upgrades or modifications planned by DIRECTV.

With this receiver (SAT-A65, SAT-B65) and the proper satellite dish antenna, you may be able to subscribe to local channels from DIRECTV in certain areas. Additional equipment may be required in some markets. Check with your retailer or visit DIRECTV.com for information on availability of local channels from DIRECTV in your area.

Federal Communications Commission (FCC) Regulatory Information

Federal Communications Commission (FCC)—This equipment complies with both Part 15 and Part 68 of the FCC rules.

Part 15 Compliance—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 removing and applying power to the equipment, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving satellite dish antenna.
- Increase the separation between the equipment and the DIRECTV Receiver.
- Connect the equipment into an outlet on a circuit different from that to which the DIRECTV Receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio and TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC.

To meet FCC requirement, only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with Class B limits may be attached to this device. Operation with noncertified peripherals is likely to result in interference to radio and TV reception.

To meet FCC requirements, shielded cables are required to connect the device to a personal computer, peripheral, or other Class B certified device.

Part 68 Compliance—This equipment complies with Part 68 of the FCC rules. On the modem card is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment, If requested, this information must be provided to the Telephone Company.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5). To be certain of the number of devices that may be connected to the line, contact the Telephone Company to determine the maximum number of RENs for the calling area.

If the DIRECTV Receiver (Model Numbers: (SAT-A65, SAT-B65) terminal equipment causes harm to the telephone network, the Telephone Company will notify you in advance that temporary discontinuance of service may be required. But, if advance notice is not practical, the Telephone Company will notify you as soon as possible. Also, you will be advised of your right to file a complaint with the FCC, if you believe it is necessary. The Telephone Company may request that you remove the equipment from the network until the problem is resolved.

The Telephone Company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the Telephone Company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If you have trouble with the DIRECTV Receiver (Model Numbers: SAT-A65, SAT-B65) equipment, please contact

Sony Satellite System Information Center at 1-800-858-SONY (7669)

for repair and/or warranty information.

Sony must make any necessary repairs to the modem portion of this equipment in order to maintain valid FCC registration. Do not attempt to repair or service your modem. Return it to Sony.

No repairs can be made by customers. All repairs must be done by an authorized Sony Service Center. This equipment cannot be used on public coin service provided by the Telephone Company. Connection to Party Line Service is subject to state tariffs.

Declaration of Conformity

Trade Name: Sony

Model No.: SAT-A65/ SAT-B65

Responsible Party: Sony Electronics Inc.

Address: 680 Kinderkamack Road, Oradell, NJ 07649

U.S.A

Telephone No.: 201-930-6972

Getting started.	1	Set output channel.	25
Setup overview	1	Input key enable/disable	25
Attach the antenna cable	2	Lock a channel	25
Connect your TV	3	Select menu language	26
Determine antenna angles	4	Change color schemes.	26
Testing your system	5	Set translucency level	26
Adding system components	7	Caller ID enable/disable	26
Connecting components	7	Restore factory default settings.	26
Connect a terrestrial antenna	7	Viewing Messages	26
Connect the RF remote control antenna (SAT-A65 only)	7	Using program guides	27
Connecting a VCR	8	Selecting a program guide style	27
Connect the VCR Control Cable (SAT-A65 only)	8	Grid guide	27
Test the VCR (Record/Stop) (SAT-A65 only)	9	Logo guide	28
Connecting a home entertainment system.	9	Program guide and menu features	29
Using the remote control	11	The OneLine™ Guide.	30
Remote control functions	15	Using Channel Mark.	30
Installing remote control batteries.	15	Setting favorites and filters	31
Programming the remote control.	16	Using favorite channel lists.	31
Changing the remote default	16	Creating a channel list.	31
Using DIRECTV INTERACTIVE™ powered by Wink Communications®	16	Renaming a channel list.	32
Using the menus	17	Creating an Auto Set list.	32
Purchasing pay per view	18	Adding and removing all channels	32
Cancelling purchases.	18	Filtering the program guide	33
Setting guide preferences	19	Using Theme Filters	33
Using the Timer.	19	Selecting guide times	34
To schedule or edit an event	20	Using access controls	35
Adjusting audio	20	Locking & unlocking the system	35
Setting default and alternate audio	21	How to lock the system.	35
Using Dolby Digital audio (SAT-A65 only)	21	Unlocking the system	36
Using the Optimize setting	22	Setting ratings limits	36
Adjusting audio balance	22	Setting spending and time limits.	37
Adjusting video	22	Appendix A Questions & Answers	39
Using Caller ID	23	Appendix B Manufacturers device control codes	41
Using Search	23	Limited Warranty	43
Adjusting system settings	24	Software License Agreement.	44
New Access Card	24	Specifications	45
Change Receiver ID	25	Index	47

You may connect a second DIRECTV Receiver to the unused LNB output. These instructions also apply to an additional receiver.

This chapter explains how to:

- Connect the DIRECTV satellite dish antenna to your DIRECTV Receiver (*this page*).
- Connect your DIRECTV Receiver to your TV (*see page 3*).
- Find antenna azimuth and elevation settings for your location (*see page 4*).
- Test the DIRECTV System operation (*see page 5*).

How to use this manual

This manual uses these typographical conventions to help clarify instructions:

Text Example	Description
Click Cancel .	On-screen command buttons that execute an action.
Highlight the <i>Messages</i> button.	Pull-down and pop-up box selections, or other option buttons within a menu pane.
Press the INFO button. Connect a pair of A/V cables to the AUDIO IN jack.	Remote control buttons, or receiver front panel. Names of equipment cable connections on equipment.
Highlight the Options tab.	Menu tab names
Display the MAIN MENU .	Menu and pane names, names of pop-up and sub-menu panes.

Setup overview

At this point, you should have:

- Mounted the DIRECTV satellite antenna and pointed it in the general direction of the satellite.
- Grounded the antenna as described in your antenna installation instructions.
- Attached RG-6 coaxial cable(s) to the antenna LNB connector(s).
- Routed the other end of the antenna cable to the back of your DIRECTV Receiver.
- Placed the DIRECTV Receiver accessible to a telephone modular jack.

Ensure that you have completed these procedures, then continue to the next page to begin installing the DIRECTV Receiver.

Attach the antenna cable You can configure your system several ways, depending on what additional components (such as a VCR, DVD player, or A/V receiver) you select. For now, however, use the simplest configuration to check your antenna and cabling.

- Ensure that the DIRECTV Receiver is **not** plugged into an electrical outlet.
- Attach the RG-6 coaxial antenna cable to the SATELLITE IN connector on the back of the DIRECTV Receiver. Refer to the appropriate figure below.

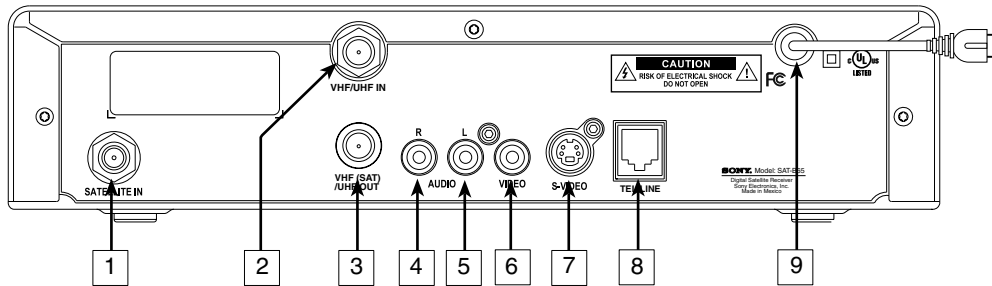


Table 1: Rear panel connections - SAT-B65 DIRECTV Receiver

1	SATELLITE IN connector	6	VIDEO OUTPUT jack
2	VHF/UHF IN connector	7	S-VIDEO jack
3	VHF (SAT)/UHF OUT connector	8	TELEPHONE JACK
4	AUDIO OUTPUT (R) jack	9	AC POWER CORD
5	AUDIO OUTPUT (L) jack		

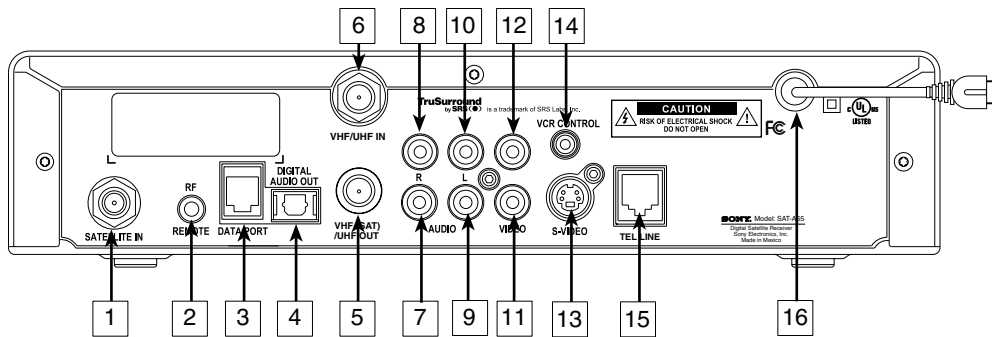


Table 2: Rear panel connections - SAT-A65 DIRECTV Receiver

1	SATELLITE IN connector	9	AUDIO OUTPUT (L) jack
2	RF REMOTE antenna jack	10	AUDIO OUTPUT (L) jack
3	DATA PORT	11	VIDEO OUTPUT jack
4	DIGITAL AUDIO OUTPUT optical jack	12	VIDEO OUTPUT jack
5	VHF (SAT)/UHF OUT connector	13	S-VIDEO jack
6	VHF/UHF IN connector	14	VCR CONTROL cable jack
7	AUDIO OUTPUT (R) jack	15	TELEPHONE JACK
8	AUDIO OUTPUT (R) jack	16	AC POWER CORD

Connect your TV Depending on your TV, you can connect it to the receiver in one of three ways:

- S-Video cable (*best picture quality*) or
- Video cable (*very good picture quality*) or
- Coaxial cable (*good picture quality*)

In addition to your video connection, use a set of audio cables (L/R) to provide stereo sound. If your TV does not have audio jacks, you will hear monophonic audio. This is acceptable for the procedures described in the next section.

To connect your TV to the DIRECTV Receiver:

1. Select the appropriate connection:

If your TV has an S-Video jack –

- Use an S-Video cable (supplied with SAT-A65 only) to connect the DIRECTV Receiver's S-VIDEO jack to the TV's S-VIDEO jack.
- Use audio cables to connect the DIRECTV Receiver's AUDIO jacks to the TV's AUDIO IN jacks.

If your TV has RCA-type A/V connectors –

- Connect the DIRECTV Receiver's AUDIO and VIDEO jacks to the TV's A/V IN jacks.
- If your TV has only one AUDIO IN jack, connect the receiver's AUDIO L jack to the TV AUDIO IN jack.


If your TV only has an RF (coaxial) connector –


- Connect the DIRECTV Receiver's VHF (SAT)/UHF OUT connector to the TV's VHF/UHF IN or RF IN jack.


2. Connect one end of the telephone line cord provided into the DIRECTV Receiver's PHONE JACK.
3. Connect the other end into a modular telephone outlet.
4. Plug the TV into an electrical outlet.
5. Plug the DIRECTV Receiver power cord into an electrical outlet. If the front panel Power indicator does not illuminate, press the POWER button.

Onscreen Menu Icons

These icons appear in onscreen menus and are used throughout this manual:

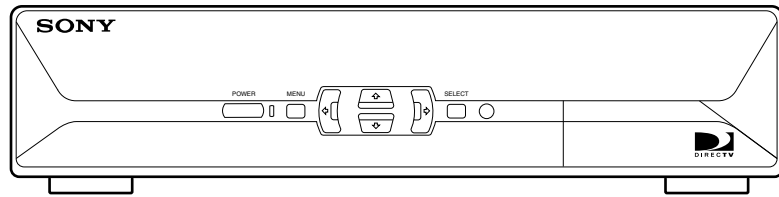
 **Toggle or Step** – Press SELECT to toggle (switch) a setting from “ON” to “OFF” or step through the available choices each time you press SELECT.

 **List of Options** – Menu button will display a list of choices in a pop-up menu when you press SELECT.

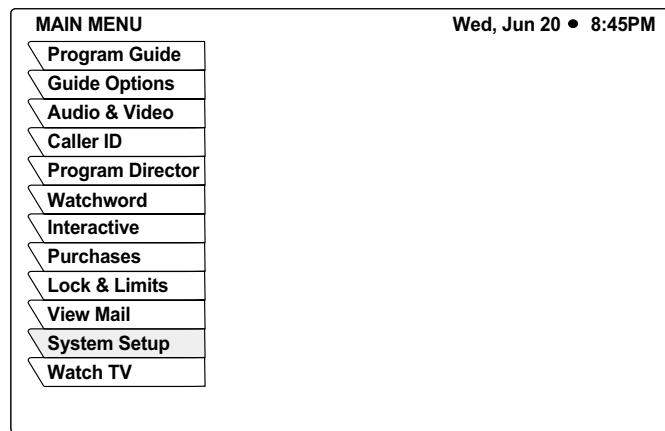
 **Series of Boxes** – Multiple screens will appear in a series requesting you to enter numbers and/or letters for the particular feature when you press SELECT.

Determine antenna angles

This section explains how to determine the proper antenna position. This is expressed in degrees of *azimuth* (horizontal) and *elevation* (vertical). Use the receiver front panel controls shown below to complete this procedure.



1. Press the front panel **MENU** button to display the **MAIN MENU** below.
2. Use the **▼** button to highlight the **System** tab.



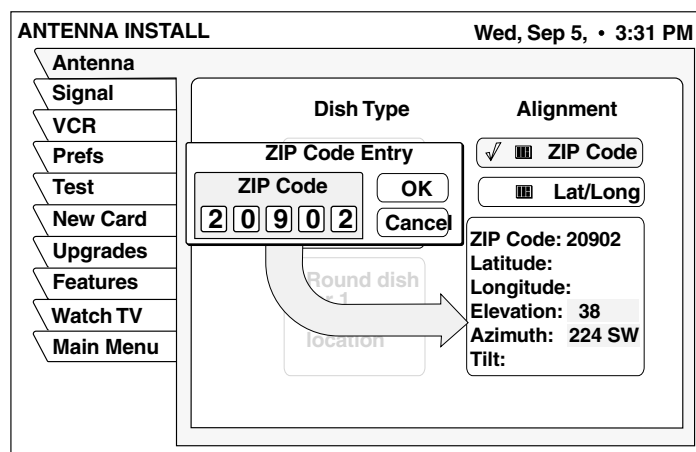
Main Menu tabs

Tilt angle also appears if you have select an Oval Antenna from the Dish Type menu.

3. Press the front panel **SELECT** button.
4. The **ANTENNA INSTALL** menu allows you to determine the correct antenna position using your 5-digit ZIP code. Enter your ZIP code and press **SELECT**.

The correct azimuth and elevation angles appear as shown below.

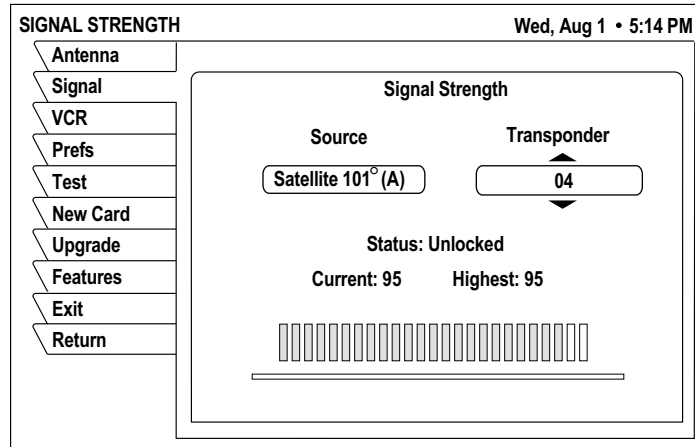
5. Use these values to properly align your dish antenna.



Finding antenna settings based on ZIP code

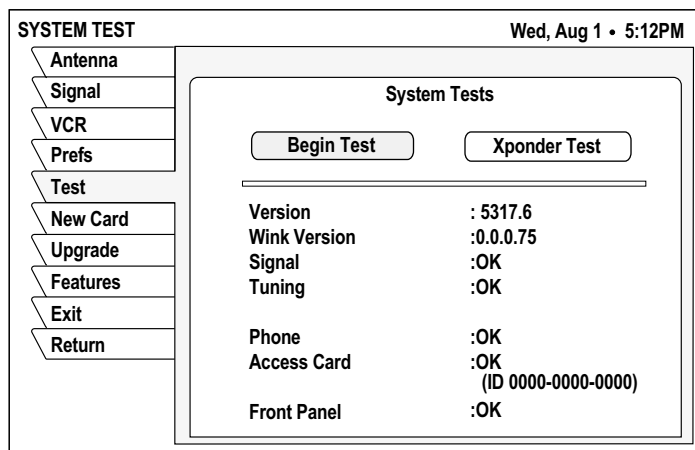
Testing your system When you have aligned your dish antenna to the azimuth and elevation angles shown on the **Antenna** pane:

1. Highlight the **Signal** tab.
2. Use the ► button to highlight the **Source** pull-down menu
3. Signal quality is indicated by a scale at the bottom of the pane and with an audible indication. The frequency and tempo of the tone increase with signal strength.



4. Highlight the **Transponder** pull-down menu.
5. You may need to select another transponder to achieve the highest signal indication.
6. Select the transponder providing the best signal.
7. Use the ▼ button to highlight the **Test** tab.
8. Highlight **Begin Test** and press the SELECT button.

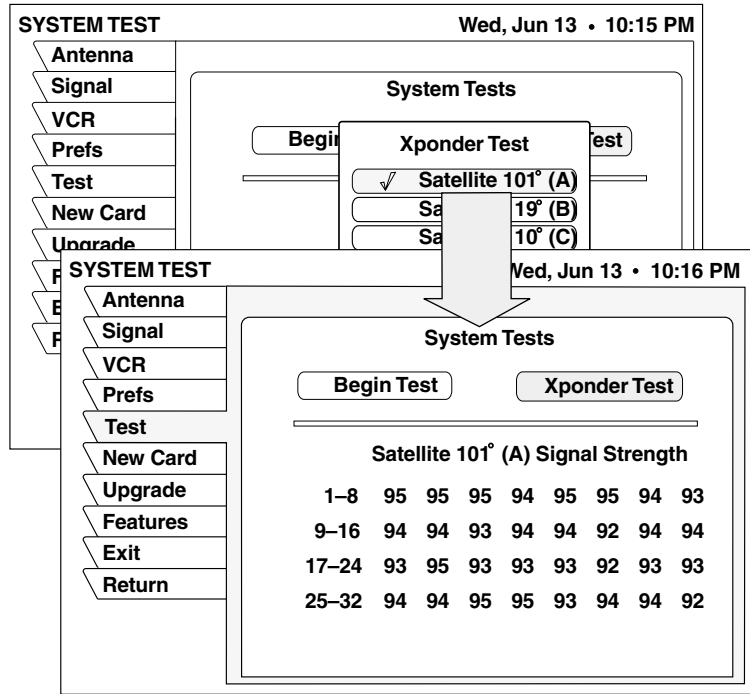
Results appear within a few seconds and should resemble those in the figure. If your test results are much different from those shown in the figures, or you receive no signal indication, refer to page 6.



To perform the Transponder test:

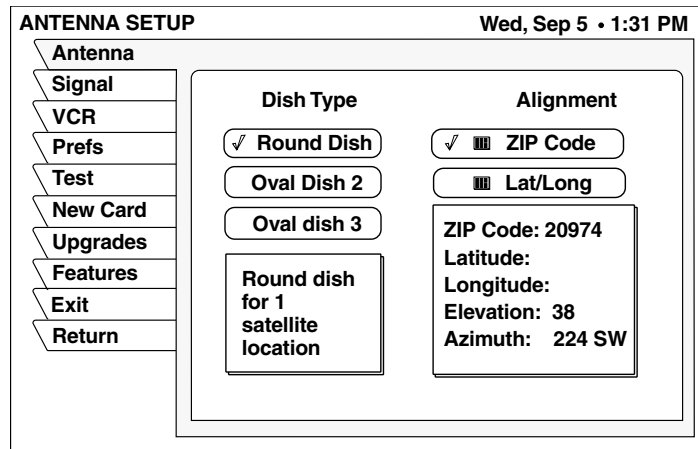
1. Move the highlight to the **Xponder Test** pull-down menu.
2. Press the SELECT button.

3. Press **SELECT** again to test the first selection on the pop-up menu.



Your results will differ slightly from those shown, depending on your geographic location and specific installation. However, if your results are very different from these examples (i.e. rows of zeros or single-digit numbers):

- Highlight the **Antenna** tab on the **ANTENNA SETUP** menu, then carefully verify your settings for accuracy.



Antenna Setup pane

- Re-enter your ZIP code if necessary to verify you have used the correct antenna pointing parameters for your location.
- Check your cable connections.
- Ensure the DIRECTV Receiver is connected to a modular telephone jack.

Once you have successfully obtained a signal and your test results resemble those shown in the figures, call DIRECTV (or your subscription service provider) to activate service if you have not done so already.

You can configure your DIRECTV Receiver several ways depending on the additional audio/video components you want to use.

This chapter explains how to:

- Connect a terrestrial (broadcast) TV antenna (*this page*).
- Connect the optional RF remote control antenna (*this page*).
- Connect and set-up a VCR (*see page 8*).
- Integrate the DIRECTV Receiver into your existing audio or A/V system (*see page 9*).

Connecting components

At this point, you should have:

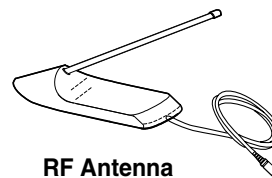
- Verified that your system is operating properly.
- Connected your DIRECTV Receiver to your TV.
- Unplugged all components from electrical outlets.

Connect a terrestrial antenna

You can connect a terrestrial (broadcast) TV antenna to your DIRECTV Receiver by connecting it to the DIRECTV Receiver's TV ANT/CABLE IN jack (refer to figures on page 3). The remote control INPUT button allows you to switch between DIRECTV® programming and input from the terrestrial antenna.

Connect the RF remote control antenna (SAT-A65 only)

The SAT-A65 DIRECTV Receiver uses an optional RF (radio frequency) remote control antenna that allows you to control your receiver from other rooms in your house.



1. Plug the RF remote control cable into the RF REMOTE connector on the DIRECTV Receiver rear panel (refer to figures on page 2 and page 3.)
2. Extend the cable and place the antenna in the desired location

To achieve the best operating range from the remote control, position the antenna as high and as far away from metal objects as possible.

Connecting a VCR Follow these instructions to connect your TV and VCR to the DIRECTV Receiver. Connect the satellite antenna RG-6 coaxial cable to the DIRECTV Receiver's SATELLITE IN jack (refer to figures on page 3).

1. Depending on your VCR, select the appropriate connection to the DIRECTV receiver:

If your VCR has A/V connectors –

- Connect the DIRECTV Receiver's AUDIO and VIDEO jacks to the VCR's A/V IN jacks.

If your VCR only has an RF (coaxial) connector–

- Connect the DIRECTV Receiver's OUT TO TV connector to the VCR's VHF/UHF IN or RF IN jack.
- If your VCR has only one AUDIO IN jack, connect the receiver's lower (mono) AUDIO L jack to the VCR's AUDIO IN jack.

2. Depending on your TV and VCR, select the appropriate method to connect the VCR to the TV:

If your TV and VCR have A/V connector –

- Connect the DIRECTV Receiver's AUDIO and VIDEO jacks to the TV's A/V IN jacks.

If your TV or VCR only has an RF (coaxial) jack –

- Connect the VCR's VHF/UHF OUT jack to the TV's VHF/UHF IN jack.

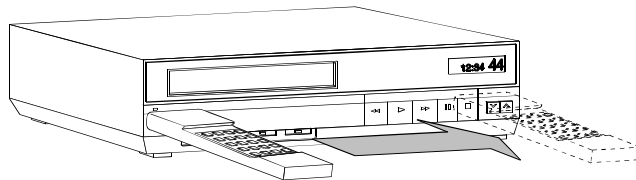
3. Plug the TV, VCR, and DIRECTV Receiver power cords into an electrical outlet.

Connect the VCR Control Cable (SAT-A65 only) Using the VCR Control Cable provided, the SAT-A65 DIRECTV Receiver can control your VCR for unattended recording.

1. Plug the VCR control cable into the rear panel VCR CONTROL jack.
2. Temporarily position the other end over the VCR's remote control sensor (normally a small dark plastic window on the VCR front panel).

The remote control sensor may be labeled or identified in your VCR manual. If it is not identified, scan the front of the VCR with your VCR remote control:

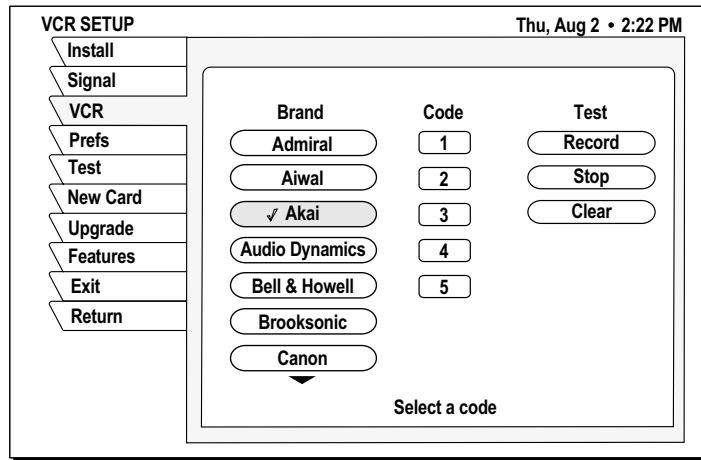
3. Hold the VCR remote control about ½-inch (1.3 cm) from the front left side.
4. Slowly move the remote control to the right as shown in the figure.
5. Repeatedly press the remote control's power key on and off.



Scanning for the VCR remote control sensor

6. When your VCR responds to your pressing the remote control power, note the position. Temporarily tape the emitter to the position you marked until you verify that it works properly.
7. Test the VCR control feature as described on page 9.

- Remove the temporary mounting tape. Attach the emitter permanently with peel-and-stick backing. This will not interfere with normal VCR operation. The VCR SETUP menu provides the settings to allow the DIRECTV Receiver to communicate with your VCR.



- Scroll through the VCR brands using the navigation buttons. If you cannot find the correct code listed for your brand of VCR, try related brands that use the same code. Your VCR may also respond to multiple codes.
- Use the remote control SELECT button to try each code.
- Alternate between this procedure and testing the code.

Test the VCR (Record/Stop)

(SAT-A65 only)

This Record/Stop test verifies the specified brand and code controls your VCR. Before starting the test:

- Turn the VCR power on.
- Verify the VCR Control Cable is properly connected.
- Insert a recordable videotape into the VCR.

Signals coming from the remote control at the same time as signals coming from the VCR Control cable may provide unreliable test results.

Use the DIRECTV Receiver *front panel* controls, rather than the remote control, to test the codes.

Test the VCR **record** and **stop** commands. If either command does not function, try other codes shown for your VCR brand. If you are unsuccessful after trying *all* available codes, recheck your VCR Control Cable connections and IR emitter placement.

Connecting a home entertainment system

*The A/V receiver **must** be turned on in order to send the video signal to your TV.*

You can integrate the DIRECTV Receiver into your entertainment system to take advantage of enhanced audio and video capability. Follow these instructions to connect your DIRECTV Receiver.

- To connect the DIRECTV Receiver to your audio system, use A/V cables to connect the satellite receiver to the audio receiver's AUDIO IN jacks.
- Dolby Digital - With the SAT-A65 model, you can enjoy programs that contain a Dolby Digital sound track. We recommend that you listen in surround sound for maximum enjoyment of these programs. You can connect the stereo outputs of the SAT-A65 to a receiver that contains a

Dolby Surround Pro Logic decoder. This will provide you with three audio channels in the front and a mono surround channel.

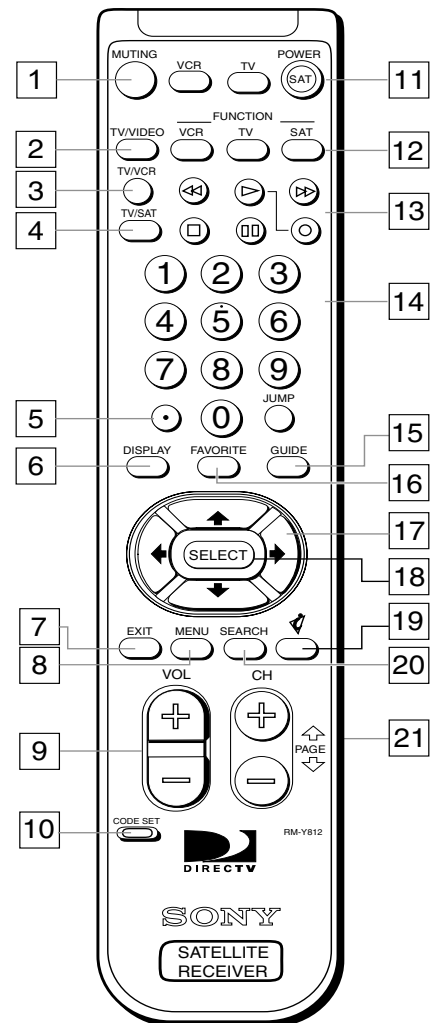
- To take full advantage of Dolby Digital programming, connect the SAT-A65 digital audio output to an external *5.1-channel* Dolby Digital decoder or receiver. This provides you with three front channels, two independent surround channels, and a sub-woofer channel.
1. Connect the satellite antenna RG-6 coaxial cable to the DIRECTV Receiver's SATELLITE IN jack.
 2. Connect the DIRECTV Receiver's A/V jacks to the VCR and A/V receiver's A/V jacks.
 3. *AUX, optical connection, and digital output connections* – If your audio receiver has coaxial or optical digital connectors, connect the appropriate type of cable to the DIRECTV Receiver's DIGITAL AUDIO OUT (*SAT-A65 only*) for two-channel digital stereo. If your A/V receiver is also capable of decoding Dolby Digital, use this connection in order to listen in full 5.1-channel surround sound. Additional audio information begins on page 20.
 4. Connect the VCR's A/V OUT jacks to a pair of the A/V receiver's A/V IN jacks.
 5. Connect the A/V receiver's MONITOR OUT jack to the TV's VIDEO IN jack.
 6. Plug the components into an electrical outlet.

Note: If you have connected a VCR to your entertainment system in a way that routes the satellite receiver's signal to your VCR before it reaches the TV, you may see a distorted picture if you try to record a copy-protected program. A *Can't Tape* symbol in the screen banner identifies these programs. If this occurs, simply stop recording and the picture will automatically correct itself.

This chapter explains how to:

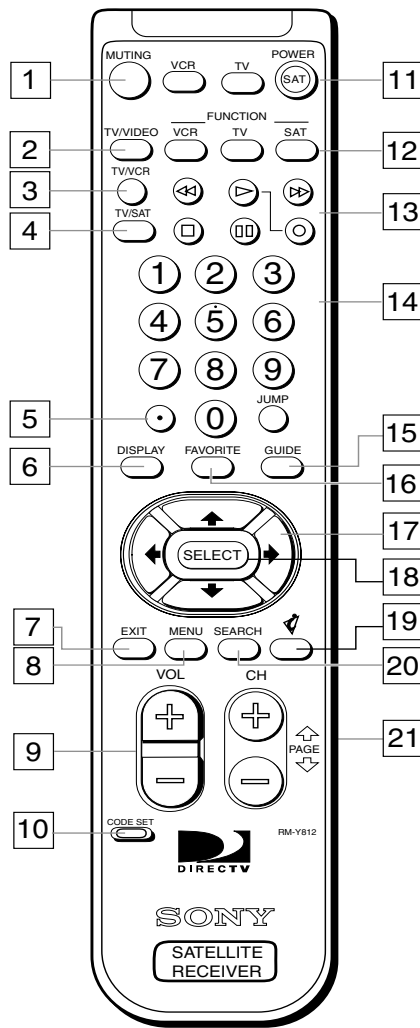
- Use the RM-Y812 and RM-Y807 remote control functions. (see page 15)
- Install and replace the remote control batteries. (see page 15)
- Program the remote to work with your system components. (see page 16)
- Access interactive programming features. (see page 16)

- 1 **MUTING button** - Mutes the volume. Press again to restore the volume. To operate your TV, you must first set up the remote control (see pages 15–16).
- 2 **TV/VIDEO button** - Switches between the inputs of your TV. To operate your TV, you must first set up the remote control (see pages 15–16).
- 3 **TV/VCR button** - Switches between the inputs of your VCR. To operate your VCR, you must first set up the remote control (see pages 15–16).
- 4 **TV/SAT button** - Switches your satellite receiver output between regular TV and satellite broadcasts. To receive regular TV broadcasts, you must have a local TV antenna or cable connection.
- 5 **Subchannel button** - Use with the 0-9 buttons to select digital video subchannels (if available).
- 6 **DISPLAY button** - Displays information for the current program.
- 7 **EXIT button** - Closes all on-screen displays.
- 8 **JUMP button** - Changes channels to the previously tuned channel.
- 9 **VOL button** - Adjust the volume. To operate your TV, you must first set up the remote control (see pages 15–16).
- 10 **CODE SET button** - Lets you program the remote control to operate your TV and other audio/video equipment (see pages 15–16).
- 11 **POWER buttons** - Turn on and off the Satellite Receiver, TV, and VCR. To operate your TV or VCR, you must first set up the remote control (see pages 15–16).
- 12 **FUNCTION buttons** - Select the equipment (SAT,TV,VCR) that you want to operate. The indicators light up to show which device the remote control is operating. To operate your TV or VCR, you must first set up the remote control (see pages 15–16).
- 13 **VCR Control buttons** - Operate VCR features such as play, record, pause, stop, and fast wind. To operate your VCR, you must first set up the remote control (see pages 15–16).




RM-Y812

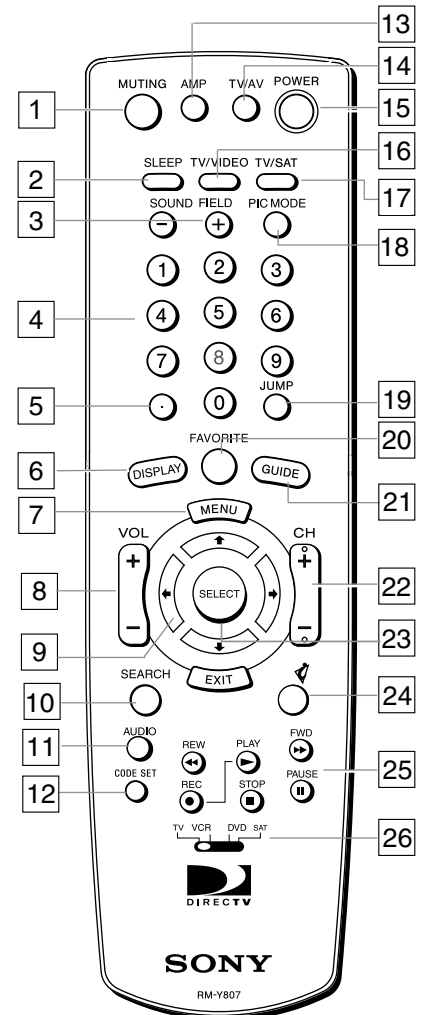
Continued on next page



RM-Y812

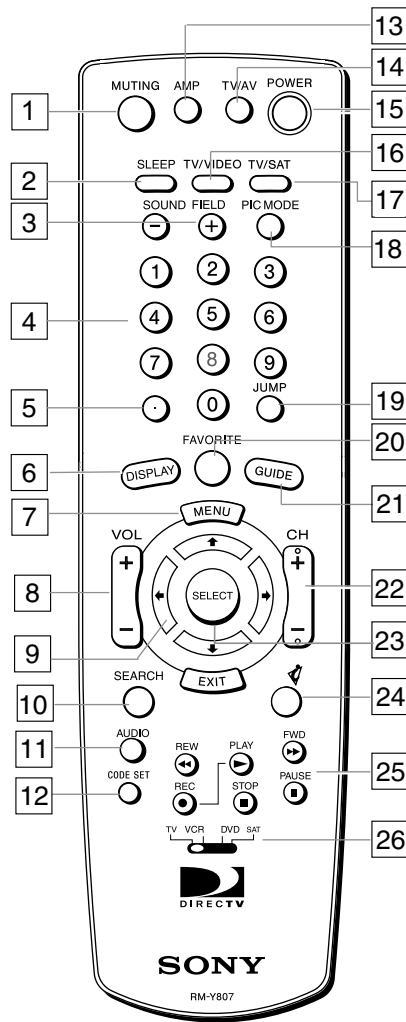
- 14 **0-9 buttons** - Change channels directly and enter numerical values in onscreen displays.
- 15 **GUIDE button** - Opens the Program Guide.
- 16 **FAVORITE button** - Changes the guide to the next Favorite Stations.
- 17 **Navigation buttons** - The navigation buttons move the highlight in on-screen displays. If there is no on-screen display, the up/down buttons activate the one-line guide.
- 18 **SELECT button** - The SELECT button selects the highlighted item.
- 19  **button**- Access interactive features.
- 20 **SEARCH button** - Access the Search feature to find favorite programs.
- 21 **CH +/-/PAGE buttons** - Change channels. When a program guide is open, these buttons page through the guide.

- 1 **MUTING button** - Mutes the volume of the audio receiver. Press again to restore the volume. To operate your TV, move the device switch to TV or see *Changing the remote default* on page 16. To operate your audio receiver or TV, you must first set up the remote control (see pages 15–16).
- 2 **SLEEP button** - Sets the audio receiver to turn off automatically after a certain amount of time (if your audio receiver has a compatible Sleep feature). To operate your TV, move the device switch to TV or see *Changing the remote default* on page 16. To operate your audio receiver or TV, you must first set up the remote control (see pages 15–16).
- 3 **SOUND FIELD +/- buttons** - Switches between the various Sound Field settings of compatible audio receivers. To operate your audio receiver, you must first set up the remote control (see pages 15–16).
- 4 **0-9 buttons** - Change channels directly, and enter numerical values in on-screen displays.
- 5 **Subchannel button** - Use with the 0-9 buttons to select digital video subchannels if available (for example, 2.1).
- 6 **DISPLAY button** - Opens the program information display for the current program.
- 7 **MENU button** - Opens the Main Menu.
- 8 **VOL (Volume) +/- button** - Adjusts the audio receiver volume. To operate your audio receiver or TV, you must first set up the remote control (see pages 15–16).
- 9 **Navigation button** - The navigation buttons move the highlight in the on-screen displays. When no menus are displayed, pressing the up or down navigation buttons activate the one-line guide.
- 10 **SEARCH button** - Access the SEARCH feature to find favorite programs.
- 11 **AUDIO buttons** - Changes the audio track of the current DVD in the DVD Player (if available). To operate your DVD Player, you must first set up the remote control (see pages 15–16).
- 12 **CODE SET button** - Lets you program the remote control to operate your TV and other audio/video equipment (see pages 15–16).
- 13 **AMP POWER button** - Turn on and off the audio receiver. To operate your audio receiver, you must first set up the remote control (see pages 15–16).




RM-Y807

Continued on next page



RM-Y807

- 14 TV/AV POWER button** - Turn on and off the TV. To turn on and off the DVD or VCR, move the device switch to DVD or VCR. To operate your TV, DVD, or VCR, you must first set up the remote control (see pages 15–16).
- 15 POWER button** - Turn on and off the satellite receiver.
- 16 TV/VIDEO button** - Switches between the inputs of your TV. To operate your TV you must first set up the remote control (see pages 15–16).
- 17 TV/SAT button**- Switches the signal being output by the VHF(SAT)/UHF OUT jack from the SATELLITE IN to VHF/UHF IN.
- 18 PIC MODE button** - Switches between the Picture Mode setting of compatible TVs. To operate your TV you must first set up the remote control (see pages 15–16).
- 19 JUMP button**- Changes channels to the previously tuned channel.
- 20 FAVORITE button** - Toggles the Favorite Stations guides.
- 21 GUIDE button** - Opens the Program Guide.
- 22 CH (Channel) +/- button** - Changes channels. When a program guide is open, pressing the CH button pages through the guide.
- 23 SELECT button** - Access the Search feature to find favorite programs.
- 24  button** - Access interactive features.
- 25 VCR/DVD Control buttons** - Operate VCR/DVD features such as play, record, pause, stop, and fast wind. To operate your VCR/DVD you must first set up the remote control (see pages 15–16).
- 26 Device switch (TV/VCR/DVD/SAT switch)** - Set the remote to operate other devices in your home theater. To operate these other devices, you must first set up the remote control (see pages 15–16).

The DIRECTV Receiver front panel buttons can provide the basic controls needed to access major DIRECTV System features. However, using the remote control simplifies accessing the basic system functions, enhances your system’s capabilities, and provides convenient shortcuts to extended features. Additionally, some remote control buttons can also control other home entertainment system components.

Remote control functions

The navigation buttons are the most versatile (and most used) remote control feature. Using only the navigation buttons, you can perform virtually all on-screen functions including:

- Selecting a highlighted screen menu item.
- Moving the screen highlight (or *cursor*) up, down, left and right.
- Jumping directly to the OneLine™ Guide.
- Changing channels using the OneLine Guide.

Use the navigation buttons to move up, down, left, or right through the on-screen displays.

Press the navigation buttons up or down to display the OneLine guide while you are watching a program. When the OneLine guide appears, press the navigation buttons up or down to step to the next higher- or lower-numbered channel.

Press the **GUIDE** button to display the current program guide. Press it a second time (while a program title is highlighted) to display the **Guide Options** menu.

Press the **DISPLAY** button to display a brief description about the program you are viewing. For more details, press it again to display the *Information Banner*. The **DISPLAY** button provides scheduling information (and pay per view purchase information) about the program highlighted in the program guide. See Chapter 5 – *Using program guides*, on page 27 for more information.

Use the **CHANNEL (CH +/-)** button to move up or down to the next available channel in the OneLine Guide or scroll through a page of program guide selection.

Press the **EXIT** button to exit from any on-screen guide, remove banners, or terminate an action.

RM-Y807 Remote Control:

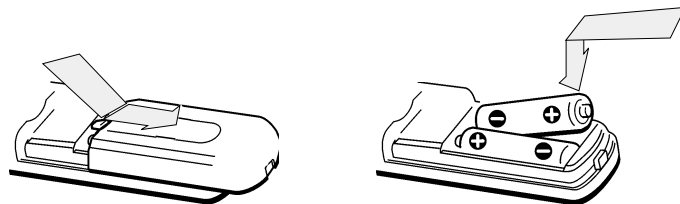
Move the device switch to **SAT** to control the **DIRECTV** Receiver. The other positions on the device switch indicate the devices they control.

RM-Y812 Remote Control:

Press the **SAT** function button to control the **DIRECTV** Receiver. The other function buttons indicate the devices they control.

Installing remote control batteries

To install or replace the remote control batteries:



1. Locate the battery compartment on the back of the remote control.
2. Remove the battery compartment cover.
3. Insert two “AA” size batteries as shown, observing the correct polarity.
4. Replace the battery compartment cover.

Programming the remote control

The RM-Y807 and RM-Y812 remote controls can be programmed to operate your other audio/video equipment.

1. Find the code(s) for the manufacturer of the device you want to operate with this remote control. You can find these codes on pages 41 and 42.
2. Press the CODE SET button.
3. Press the 0-9 buttons to input the manufacturer code. Then Press the SELECT button. The remote is set up to operate that device.
4. Test the remote control. Press the POWER button for that equipment, then press other operation controls such as the (CH +/-) buttons. If the device does not respond to the remote control, repeat the procedure from step 2 and enter a different manufacturer code in step 3.


Changing the remote default


The RM-Y807 remote is set to control an audio receiver using the MUTING, SLEEP, and VOL +/- buttons unless the device switch is set to TV. This setting can be changed so that these buttons always control the TV.

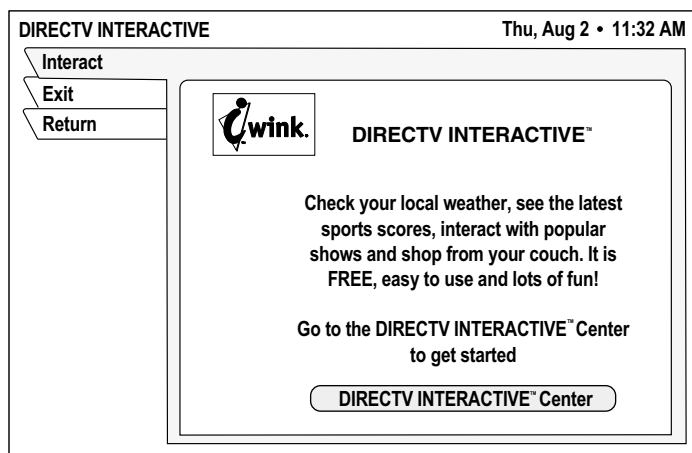
1. Press the CODE SET button.
2. Use the 0-9 buttons to enter the numbers "1," "0," "0," then press the SELECT button. Press the SELECT button a second time.
3. The MUTING, SLEEP, and VOL +/- buttons are now always set to control the TV.
4. To return to the default setting, follow the above step, but enter the numbers "9," "9," "9" in step 2

Using DIRECTV INTERACTIVE™

powered by Wink Communications®

DIRECTV INTERACTIVE™ powered by Wink Communications® is a free, easy-to-use service that allows you to interact with the television shows and advertisements. When the blinking  symbol appears in the upper left part of your screen, you know that the program you're watching has been enhanced with DIRECTV INTERACTIVE™.

Simply press the  button on your remote control. You can use your remote control to access up-to-the-minute sports scores, news and weather, get program trivia, respond to offers during commercials, and purchase products, all while watching TV.



Select the **DIRECTV INTERACTIVE™ Center** menu bar, then follow the simple directions provided on the subsequent screens.

This chapter describes:

- How to find the menus you need to perform common tasks (*this page*).
- How to purchase pay per view events (*see page 18*).
- Using the Timer (*see page 18*).
- How to set and modify preferences (*see page 19*).

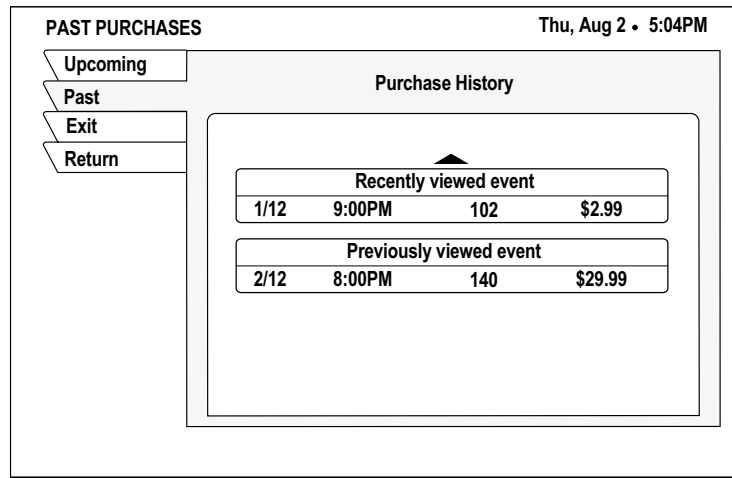
The table below lists the **MAIN MENU** tabs, their submenus, and what they do.

Menu function overview

Main Menu tab	Screens (see page)	If you want to:
Program Guide	Program Guide	<ul style="list-style-type: none"> • View and modify the program guide.
Guide Options	Theme (<i>page 19</i>) Times (<i>page 34</i>) Favorites List (<i>page 31</i>) Favorites Setup (<i>page 31</i>) Set Options (<i>page 31</i>) Set Channel Mark (<i>page 30</i>)	<ul style="list-style-type: none"> • Change the name of a program list. • Change the period of time shown in the program guide • Create/edit up to four channel lists (Fav. A, Fav. B, Fav. C, Family) • Create a program listing that contains selected channels • Guide Options: <ul style="list-style-type: none"> – Guide style (grid or Logo) – Picture in guide, zoom (on or off) – Multi-Color guide (on or off) – Channel Sort (numeric or alpha) – Filters (temporary or persistent) – Reset options to the default selections – Set and edit Channel Mark guide channels
Audio & Video	Audio Adjustment (<i>page 20</i>) Video Adjustment	<ul style="list-style-type: none"> • Set Default Audio language • Set Alternate Audio language • Set left/right audio balance • Select 4:3 or 16:9 screen ratio • Center menus on your monitor
Caller ID	Caller ID (<i>page 23</i>)	<ul style="list-style-type: none"> • View names & telephone numbers of recent callers
Timer	Schedule (<i>page 18</i>)	<ul style="list-style-type: none"> • Automatically tune to programs for viewing or taping
Search	Setup (<i>page 23</i>) Results (<i>page 23</i>)	<ul style="list-style-type: none"> • Search for programming using specific words • Display search results
Interactive	DIRECTV INTERACTIVE™ (<i>page 16</i>)	<ul style="list-style-type: none"> • Access interactive programming features
Purchases	Upcoming & Past Purchases (<i>page 18</i>)	<ul style="list-style-type: none"> • View a list of scheduled pay per view event • Display recently purchased pay per view events
Locks & Limits	Lock (<i>page 35</i>) Fav Setup (<i>page 31</i>) Rating (<i>page 36</i>) Limits (<i>page 37</i>)	<ul style="list-style-type: none"> • Lock and unlock the system • Set viewing times and maximum viewing hours • Create/edit up to four channel lists (Fav. A, Fav. B, Fav. C, Family) • Set maximum program rating allowed for viewing • Select programming content to be shown in the program guide
Messages	Mail (<i>page 19</i>)	<ul style="list-style-type: none"> • Read messages from DIRECTV
System	Install (<i>page 2</i>) Signal (<i>page 4</i>) VCR (<i>page 7</i>) Prefs (<i>page 19</i>) Test (<i>page 5</i>) New Card Upgrade Features	<ul style="list-style-type: none"> • Determine proper antenna azimuth and elevation setting • Test signal reception • Setup VCR for unattended recording (SAT-A65 only) • Test system operation • Prepare a new access card • Display upgrade status and history • Display current receiver features

Purchasing pay per view

Select the **Purchases** menu tab to display lists of recently viewed and advance purchased pay per view events. You can choose **PAST PURCHASES** and **UPCOMING PURCHASES**. The event channel, title, start date and time, and cost is shown for each purchase.



Pay per view purchases list

The **PAST PURCHASES** pane shows recent pay per view events charged to your account. You cannot remove listed events. The list does **not** show:

- events purchased, but later canceled.
- purchased, cancelable events to which the DIRECTV Receiver never tuned.
- events ordered by calling DIRECTV.

The **UPCOMING PURCHASES** pane displays:

- PPV events you have purchased but not yet viewed
- PPV events purchased but never viewed.

Events ordered by calling DIRECTV do **not** appear on this list. For additional information about a specific event, highlight the event and press the DISPLAY button.

If you are not authorized for purchases using your DIRECTV Receiver, contact DIRECTV for assistance.

To purchase a pay per view event:

1. Highlight the *Buy* menu pane option
2. Press SELECT
3. Press SELECT again to confirm your purchase.

Cancelling purchases

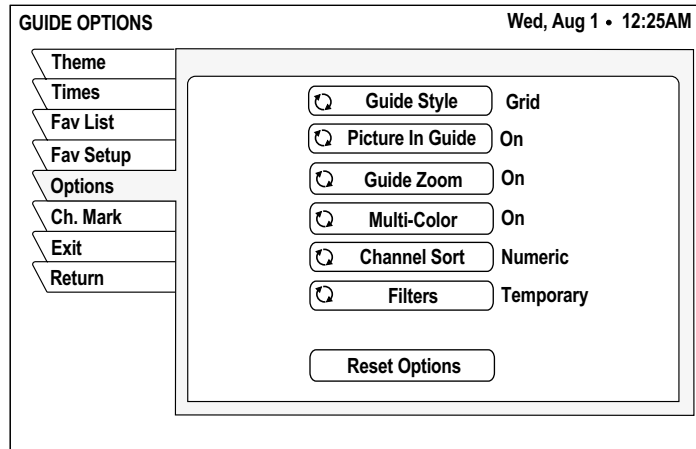
You may cancel some events after purchasing them. You can usually cancel unviewed purchases, however *some* events cannot be cancelled. If the **Cancel Purchase** button appears, you can clear the purchase. If this button is unavailable, part of the event has probably already been viewed, and you must accept the purchase.

To cancel a Pay Per View event:

1. Highlight the event you want to cancel.
2. Press SELECT on the remote control.
3. Use the pop-up menu panel to cancel the purchase.

Setting guide preferences

Options on the **GUIDE PREFERENCES** menu permits you to customize operation to best suit your needs.

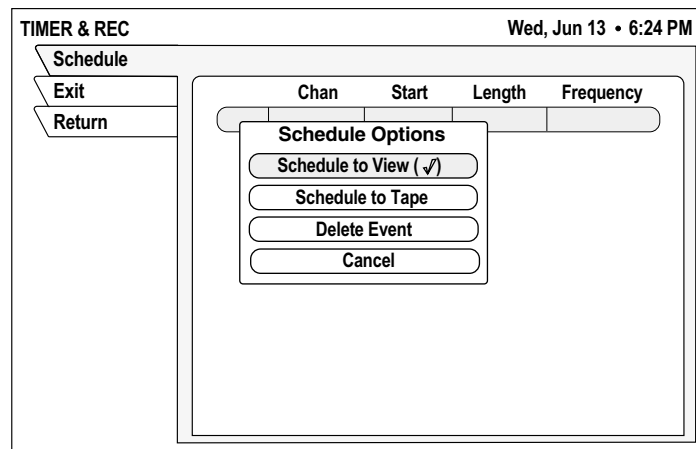


Selecting guide options

Using the Timer

You can program up to 32 events in advance for viewing or unattended recording. The **Timer** will tune to a program at a specific date and time, or tune on a repeating basis. As shown below, you can:

- Schedule programs for viewing (✓)
- Schedule programs for taping (📀) (SAT-A65 only)
- Select **Cancel** from the menu if you decide not to schedule anything.



The TIMER pane popup menu

To schedule or edit an event

You can schedule events up to eleven months in advance.

Select **Delete Event** to clear a scheduled event.

If you specify a date, use the month/day format. The year is set automatically.

The **Schedule** pane displays up to seven previously scheduled events at a time. If more than seven events are already scheduled, use the navigation buttons to scroll down to view the additional events. Small arrows at the top or bottom of the list indicate that there are additional events.

To schedule a program:

1. Highlight an upcoming program in the program guide and press **SELECT**. Press **SELECT** again to cycle through the next available option.
If you choose a scheduling option, the DIRECTV Receiver will turn on (if necessary) and tune to the specified channel at the chosen date and time.
2. If you chose **Schedule to Tape** (SAT-A65 only) and you have set up your VCR (see page 7), the DIRECTV Receiver will record the event. For unattended recording:
 - Attach the VCR Control Cable and set up your VCR.
 - Set your VCR for the correct DIRECTV Receiver output: RF (channel 3/4) or A/V (phono or S-Video).
 - Insert a blank videotape and leave the VCR turned on.
3. Use the navigation buttons to specify AM or PM (or N for noon, or M for midnight if the you specified 12:00).
4. Use the same procedure to set the program *Length* in hours and minutes.
5. Use the navigation buttons to advance to the *Frequency* column.
6. Specify when, or how often, the event occurs: *Today, Tomorrow, Every Mon, Every Tue, Every Wed, Every Thu, Every Fri, Every Sat, Every Sun, Everyday, Mon-Fri*, or “/” (specify a date).
7. After setting the Frequency, use the navigation buttons to advance.
8. Review your settings and choose **OK**, or choose **Cancel** to delete the edits.

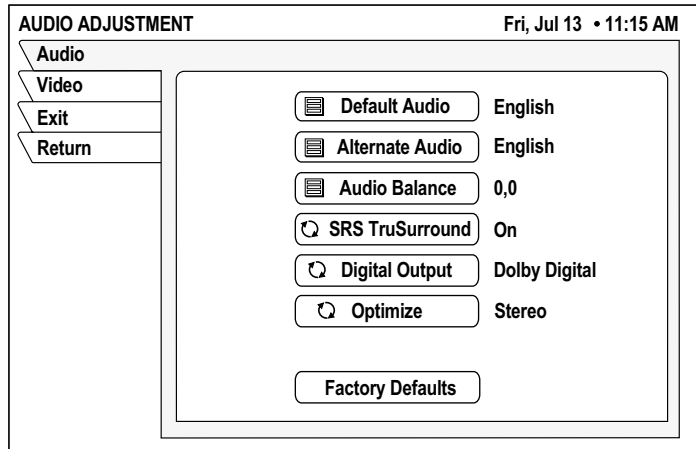
To cancel a program scheduled for viewing or taping:

Find the upcoming program in the program guide you wish to cancel and press **SELECT** until the check mark (✓) or videotape icon (📼) disappears. If the program is currently airing, you must delete the event from the **Schedule** menu pane accessed from the **TIMER** menu.

Adjusting audio

From the **MAIN MENU**, highlight and **SELECT** the **Audio & Video** tab. From the **AUDIO ADJUST** menu pane, you can change:

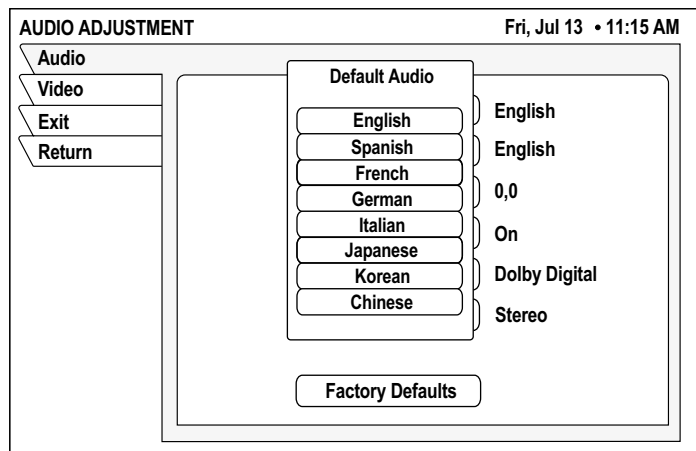
- **Default Audio and Alternate Audio**
- **Audio Left/Right Balance**
- **TruSurround® Audio Processing** (SAT-A65 only)
- **Dolby Digital Output** (SAT-A65 only)
- **Output Optimization**



Adjusting Audio settings

Setting default and alternate audio

Your DIRECTV Receiver supports alternate audio services. Icons below the date and time in the Information Banner or program guide indicate if these services are available for a particular program.



Setting the default audio language

1. Press the remote control INPUT button to access these services.
2. Highlight the desired language.
3. Press SELECT.

Occasionally, an audio track may be offered that is not being broadcast, in which case the audio will not change or you will not hear any audio. Change channels to restore the audio track to the one specified on the **AUDIO ADJUSTMENT** menu pane.

Using Dolby Digital audio (SAT-A65 only)

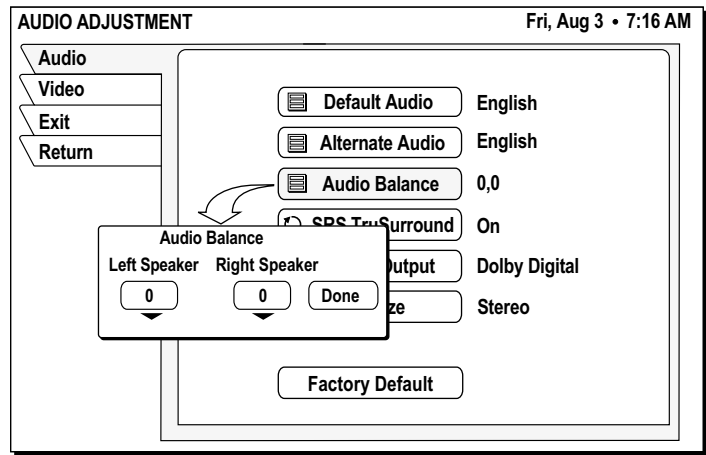
Select the Dolby Digital audio (SAT-A65 only), then use the CHANNEL (CH +/-) button to step through the audio tracks for the current program. For programs that are offered in Dolby Digital, the double-D symbol (ⒹⒹ) appears with the audio track title.

Using the Optimize setting

The *Optimize* selection allows you to select the preferred audio optimization based on the receiver-to-TV connection used.

- Set Optimize to *Stereo* to provide highest quality audio when using the AUDIO OUTPUT (L) and (R), and/or DIGITAL OUTPUT connection.
- Use the Optimize *Mono* setting to provide the highest-quality audio when using the OUT TO TV coaxial connection.

Adjusting audio balance To adjust the left/right audio balance, highlight and SELECT *Audio Balance*.



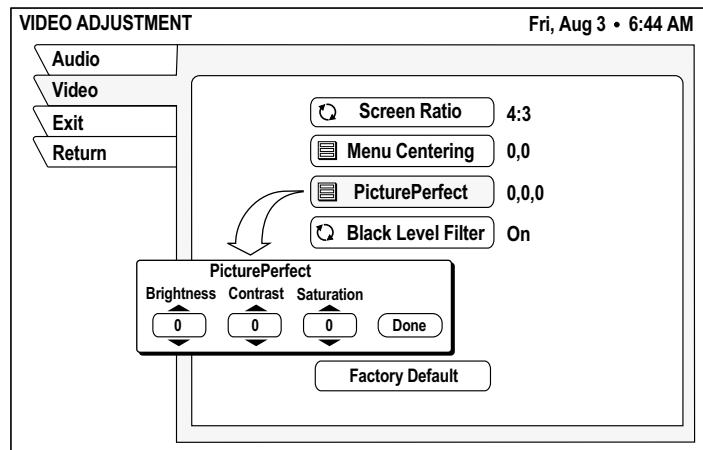
Setting left/right speaker balance

Use the navigation buttons to increase or decrease the *Audio Balance* settings in the pop-up menu.

Adjusting video

Adjust video display brightness, contrast, and saturation for the best on-screen image. (SAT-A65 only)

1. Highlight the **Audio & Video** tab from the **MAIN MENU**.
2. Press SELECT.
3. Highlight the **Video** tab.
4. Highlight the *PicturePerfect* menu pane button.
5. Press SELECT.



Adjusting the screen image controls

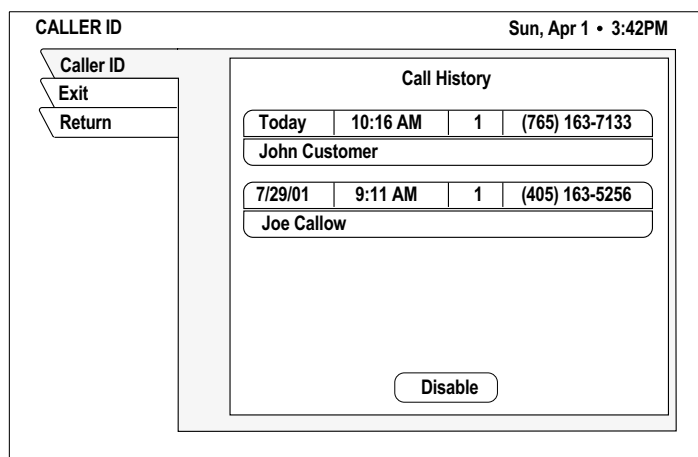
Use the navigation buttons to increase/decrease the screen **Brightness**, **Contrast**, and image **Saturation** settings in the pop-up menu.

Using Caller ID Your DIRECTV Receiver shows you the name and telephone number (if available) of incoming telephone calls on your TV.

You can also see the name, time, and telephone number of recent calls on your TV as shown in the figure below.

You must subscribe to Caller ID from your local telephone company to use this feature.

Highlight and **SELECT** the **Caller ID** tab from the **MAIN MENU**.

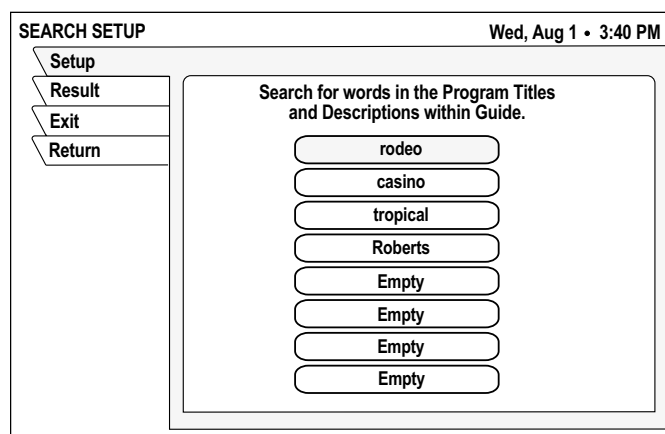


Call history screen

You can disable and enable the Caller ID feature from the **PREF** menu pane under the **System** tab available on the **MAIN MENU**.

Using Search

Use **Search** to find shows that have specific words used in titles or descriptions. Press the remote control **SEARCH** button to access the setup pane shown below.




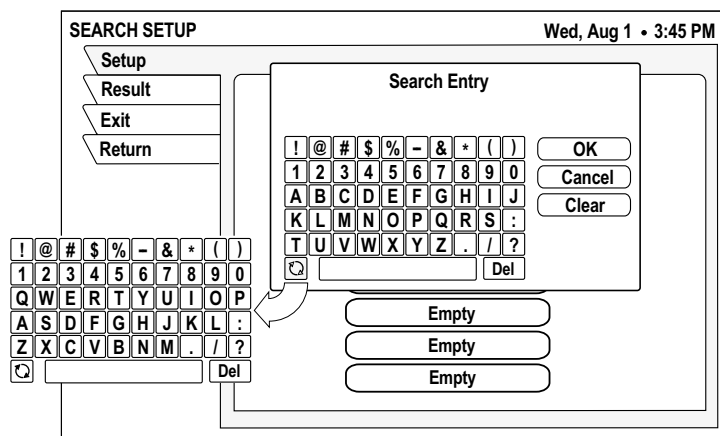
Search word entry list

You can specify up to eight words to identify programming of interest to you. While the DIRECTV Receiver is in standby mode, it searches program titles and guide descriptions. Programs with matching words appear in the **Result** pane.

Note: For Search to have the opportunity to find programs with matching words, your DIRECTV Receiver must be in standby mode (Off). Allow the system to look for your words while you sleep or while you are at work. The DIRECTV Receiver cannot search for words while it is turned on.

Highlight one of the eight choices and press SELECT. A pop-up panel appears where you can enter a search word. If you entered "ALIEN," Search might find the movie "Aliens" as well as any program which includes the word "alien" in the description. You may also use partial words.

Use the pop-up button board to enter search words. You can highlight and SELECT the *toggle* icon  on the default button board (see figure) to change it to a standard keyboard layout, if you desire. Highlight the desired letter using the navigation buttons. Press SELECT to enter the letter. Select **OK** when you are finished entering the desired search words.



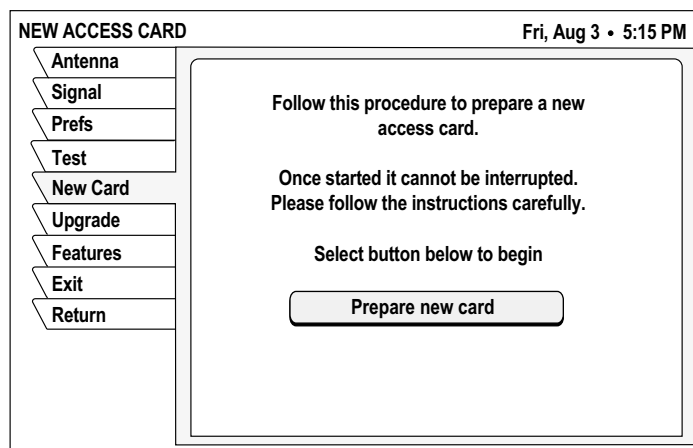
Using the toggle key to switch button board layout

Adjusting system settings

Select the **System** tab from the **MAIN MENU** to access the system functions described in this section.

New Access Card

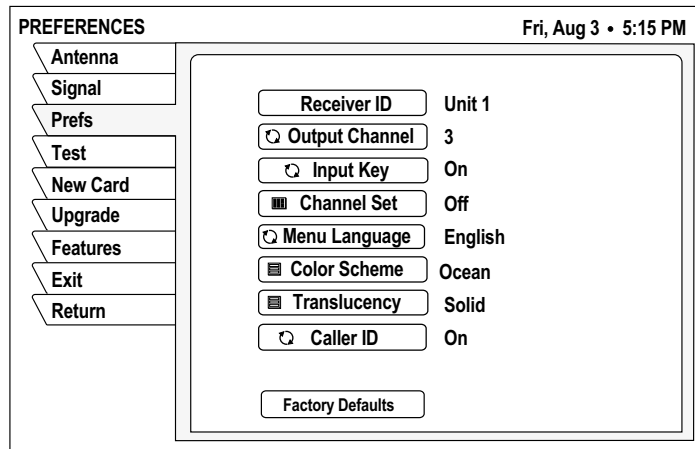
Highlight the **New Card** tab to set the receiver to use a new DIRECTV access card. SELECT the *Prepare new card* menu button and follow the on-screen instructions.



Prepare New Card menu pane

Use the **PREFERENCES** menu pane (shown in the figure below) to change the appearance of the on-screen menus and select how your DIRECTV Receiver operates with other devices. The **PREFERENCES** pane also allows you to:

- Change the receiver ID
- Set the receiver output channel to channel 3 or 4
- Enable or disable the INPUT button on your remote control.
- Lock the system on a particular channel.
- Select English or Spanish language menus.
- Enable or disable Caller ID on and off.



System Preferences menu pane

Change Receiver ID If you are using a second satellite receiver in the same room, or you are using the RF remote control, you may want to change the receiver ID to avoid interference or “cross talk.” The remote control receiver ID can be either “50” or “51.” When using the RF antenna with the SAT-A65 receiver, the ID can be a number from “00” to “15.”

If you change the receiver ID, set your remote control to the desired ID number first. Use this procedure to set the remote control to use a different receiver ID:

1. Press the **CODE SET** button on the remote control.
2. Enter the desired receiver ID number, either “50” or “51” or a number from “00” to “15” when using the the RF antenna with the SAT-A65 receiver and the RM-Y807 remote control.
3. Test the remote control to ensure that it will control the DIRECTV receiver.

Set output channel Use the *Output Channel* menu button to toggle between channels 3 and 4, whichever is unused in your area.

Input key enable/disable The *Input Key* menu button allows you to turn the remote control TV/SAT button on and off.

Lock a channel Use the *Channel Set* menu button to set the DIRECTV Receiver to permanently stay on a specific channel. When you enter a channel number (5-0-0, for example) then select **OK**, the receiver will always power up on that channel (channel 500 in this example). The receiver will ignore any attempts to change the channel. Set this option to “Off” to permit normal channel selection.

- Select menu language** The *Menu Language* button allows you to display on-screen menus in English (default) or Spanish.

- Change color schemes** You may select a menu color combination, or *scheme*, from these choices: *Ocean, Storm, Foam, or Purple*.

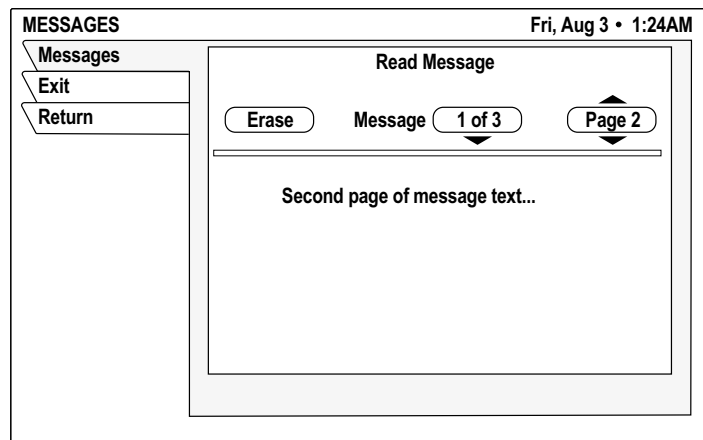
- Set translucency level** The Translucency level of the on-screen display may be set to *Solid, Heavy, Medium, or Light*.

- Caller ID enable/disable** Use the *Caller ID* menu button to turn the Caller ID feature on and off. Incoming calls will not be displayed on-screen when the Caller ID feature is *disabled*.

- Restore factory default settings** SELECT the *Factory Defaults* menu button to restore the **PREFERENCES** options to the original factory settings.
Antenna, Signal, and Test functions are described Chapter 1 – *Getting started*.

Viewing Messages

DIRECTV uses the **MESSAGES** feature to send you important information, inform you of special events, and tell you about special offers. When you receive a new message, a *New Mail* icon appears at the top of all menus until you read the message. Highlight and SELECT the **View Messages** tab from the **MAIN MENU**.



VIEW MAIL menu pane

Message – Cycle through multiple messages. SELECT the *Messages* button. Use the navigation buttons to navigate messages.

Page – Use the CHANNEL (CH +/-) button to cycle through multi-page message.

Erase – Permanently remove a message. Messages are automatically deleted as they become outdated or if space is needed for newer incoming messages.

This chapter describes:

- The different program guide styles (*see page 27*).
- Common program guide and menu features (*see page 29*).
- How to use the OneLine™ Guide (*see page 30*).
- How to set-up and use the Channel Mark Guide (*see page 30*).

Selecting a program guide style

Personalize the program guide to show program listings that interest you. You determine how your choices appear onscreen by your guide selection. Available guide styles are:

- **Grid** with Picture-in-Guide or description
- **Logo** with Picture-in-Guide or description

Grid guide

- Easy to see what programs are available at a particular time.
- Shows two hours of programming divided into 30-minute blocks.
- *Picture-in-Guide* displays the current program in the upper right corner.
- Four channels of programming are displayed using Picture-in-Guide.
- Programs appear in a row with the channel on which they are broadcast.

Cells with arrows indicate the program started at an earlier time or continues later than can be shown in the selected 2-hour period.

PROGRAM GUIDE		Thu, Aug 1 • 3:03PM		
All Channels				
DIRECTV Customer News NR		An image of the currently airing program highlighted in the menu selection appears here		
TODAY	8 PM	8:30	9 PM	9:30
	DIRECTV Customer News		DIRECTV Customer News	
	DIRECTV INTERACTIVE™ Center			
	DIRECTV® Pay Per View Previews			
	DIRECTV® FREEVIEW®		DIRECTV® FREEVIEW®	

If a program title cannot entirely fit in the space provided, an ellipsis (...) indicates that a portion of the title is not shown.

You can browse **five** channels by turning the Picture-in-Guide off.

PROGRAM GUIDE		Sat, Aug 4 • 10:00PM		
All Channels				
DIRECTV Customer News NR		A detailed description of the selected programming appears here. Descriptions include names of the stars and co-stars, year produced, a brief summary of the subject or plot and other information.		
TODAY	8 PM	8:30	9 PM	9:30
	DIRECTV Customer News			
	DIRECTV INTERACTIVE™ Center			
	... Previews	DIRECTV Pay Per View Previews		
	... Previews	DIRECTV Pay Per View Previews		
	DIRECTV® FREEVIEW®		DIRECTV® FREEVIEW®	

- Browse up or down one channel at a time with the navigation buttons when the highlight is in the grid.
- Use the remote control CHANNEL (CH +/-) button to scroll through a full page of guide entries at a time.
- Move the highlight to the right to show later time periods.

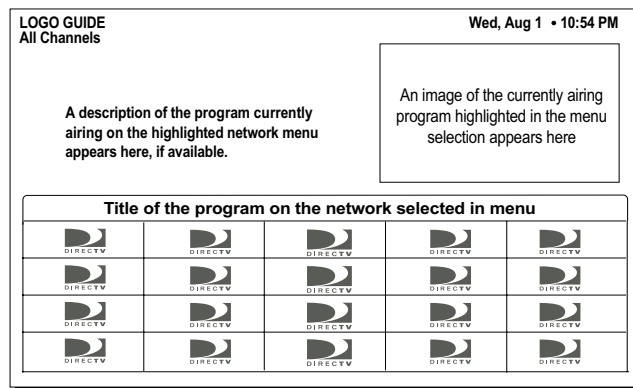
Turn off the Picture-In-Guide:

1. Press the remote control GUIDE button.
2. Press the GUIDE button again to access the **Options** menu tab.
3. Highlight the **Picture-in-Guide** menu button.
4. Press SELECT to toggle the feature off.

Press the remote control GUIDE button while the program guide appears on-screen to display the Guide Options menu.

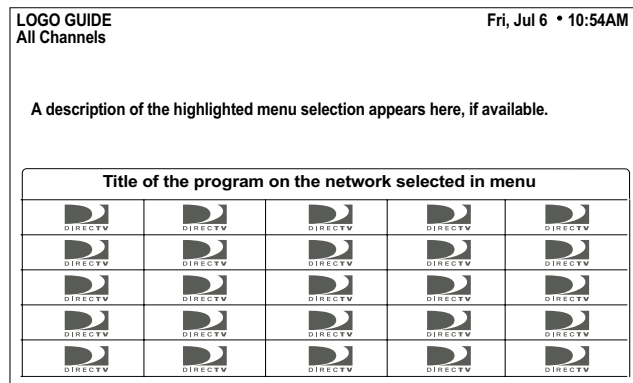
Logo guide

- Select channels, rather than specific programs.
- The current program title appears above the logo grid as you highlight each channel. Only current programming is available in the Logo Guide.
- Video of the current program appears in the Picture-in-Guide window as you highlight each channel.



Logo guide with Picture-In-Guide active

Use the CHANNEL (CH +/-) button to scroll through the guide entries a full page at a time, or use the navigation buttons to scroll through the guide entries one at a time. You can display the most channels per screen (refer to the figure below) by turning off the Picture-in Guide feature, using the description-only mode.



Logo guide with Picture-In-Guide disabled (description-only mode)

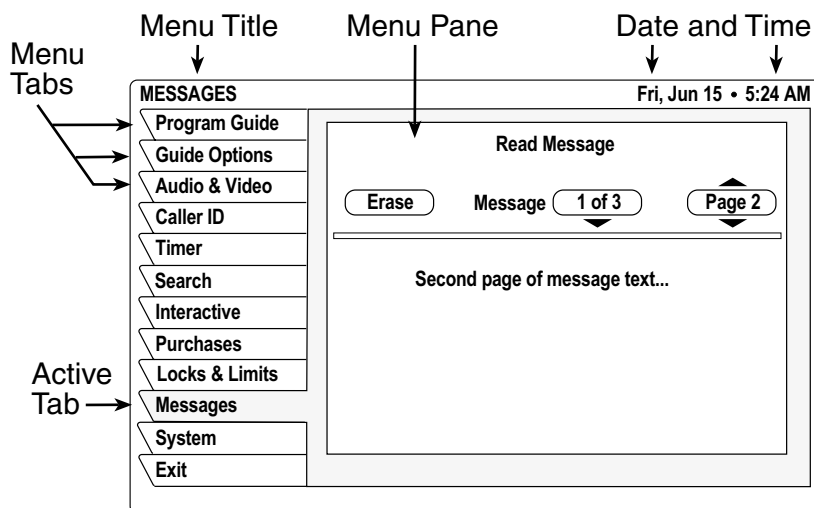
Selecting a guide style

1. Press the remote control MENU button.
2. Use the navigation buttons to highlight and SELECT the **Guide Options** menu tab.
3. From the **Options** menu tab, highlight your selection and press SELECT.
4. Highlight and SELECT the **Exit** tab to return to the program you were viewing.

Program guide and menu features

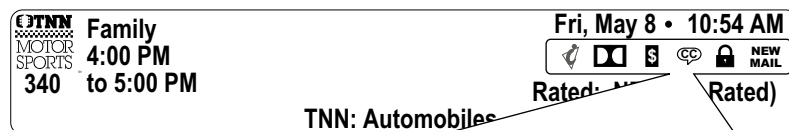
The on-screen guides and menus provide a logical and convenient way to access system features and settings. Every guide and menu contain these elements:

- The guide or menu title
- The day of the week, date, and time appear in the upper right corner
- Menu pane selection tabs



Common menu features

- Use the navigation buttons to move the highlight from tabs into menu panes.
- Any sub-filters appear under the guide title. The label left of the bullet shows the current class filter. The channel list appears right of the bullet.
- Below the date and time, small icons indicating the status of the system or details about the currently highlighted program title may appear. These icons also appear in the *Channel Banner* as shown in the figure below.



Icon	\$	Person with speech bubble	Dolby logo	CC	NEW MAIL	Padlock	Padlock with slash	CAN'T TAPE	ALT. AUDIO	DATA SVCS.
Meaning	Pay per view	Interactive programming available	Dolby Digital audio available	Closed captioning available	Unread mail	Limits enforced	Limits override	Taping not allowed	Other audio available	Data available


Channel Banner Icons

The Channel Banner appears at the top of the screen whenever you use the CHANNEL (CH +/-) button to change channels. Press the remote control DISPLAY button to display the banner at any time.

More detailed information appears in the *Info Banner* beneath the Channel Banner if you press the DISPLAY button a second time. Banners disappear from the screen after a few seconds, but you can remove them from the screen instantly by pressing the EXIT button on the remote control.

The OneLine™ Guide

The OneLine™ Guide appears at the bottom of the screen when you press the navigation buttons up or down while watching TV. You will see the channel call sign and number, titles, and program start and end times. Use the navigation buttons to move up or down while using the OneLine Guide to see the next or previous available channel. Press SELECT to tune to the channel.










360	10:30	11 AM	11:30	NOON
	Family Classics	The O'Reilly Factor		TheStreet.com
FNC	PROGRAM GUIDE • Family			

OneLine Guide

You can also enter a channel number using the numeric keypad to display the OneLine Guide for that channel. OneLine Guide content varies according to **FAV LIST** menu selections and other filters. Press the EXIT button on the remote control to instantly remove the guide.

Using Channel Mark

The Channel Mark feature is a quick access guide to nine of your favorite channels. While no other menus are displayed, press the SELECT button on the remote control to show the Channel Mark panel. Use the navigation buttons to highlight the desired channel. The header area of the panel displays the title of the program currently airing on the highlighted channel. Press SELECT to tune to that channel.

DIRECTV Pay Per View Prev		
		
		
		
Setup		

Channel Mark Menu

Specify these channels using the **Ch. Mark** menu tab after selecting **Guide Options** from the **MAIN MENU**. Highlight an unassigned channel box and press SELECT. Enter the desired channel using the navigation buttons, numeric remote control buttons, or the CHANNEL (CH +/-) button.

This chapter explains:

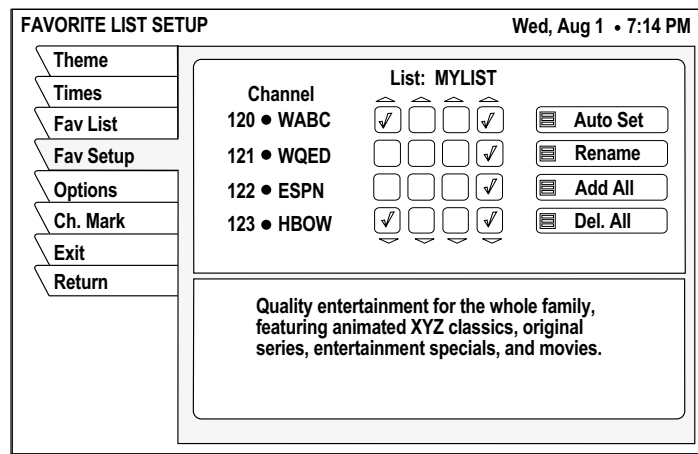
- How to create a channel list (*this page*).
- Renaming a channel list (*see page 32*).
- Using *Auto Set*, *Add All*, and *Del All* functions (*see page 32*).
- How to filter the program guide (*see page 33*).
- How to change guide times (*see page 34*).

Using favorite channel lists

Channel Lists are provided to help you organize the hundreds of available channels into groupings suitable for your household. Each list can contain as many or as few channels as you wish. You can customize these groups several ways. For example, *Fav. A* could be Dad's favorite channels, *Fav. B* could be Mom's favorites, *Fav. C* could be the kids' channels, and *Family* could be all channels that Mom and Dad have deemed appropriate for the entire family.

Creating a channel list

1. Press the remote control MENU button.
2. Select the **Guide Options** from the **MAIN MENU**.
3. Use the navigation buttons to highlight the **Fav Setup** tab.
4. Press SELECT to open the **FAVORITE LIST SETUP** pane shown below.



The four columns of small boxes on the right hand side of the pane are the *Tag Boxes*. The first three columns are the *Fav.A*, *Fav.B*, and *Fav.C* channel lists. The farthest right hand column is the *Family* list.

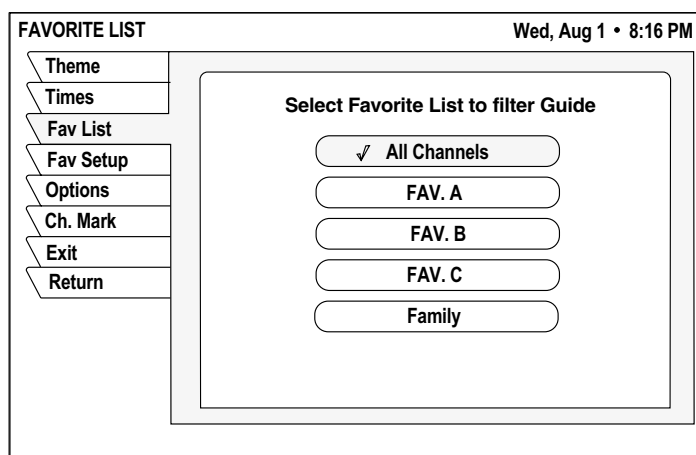
Note: If the receiver is locked, only existing *Family* list channels are accessible. If the *Family* list has not had channels added to it, no channels can be viewed without first unlocking the receiver. To avoid this inconvenience, create the *Family* list before locking the receiver. See Chapter 7 – *Using access controls*, on page 35 for additional details about controlling system access.

5. Use the navigation buttons to highlight the tag box that corresponds to the channel number and list that you wish to create or change.
6. Press SELECT to add or remove the check mark, which indicates that the channel in that row is included in the list shown at the top of the column.

To help you decide whether to include or exclude a certain channel, the title of the program currently airing on that channel appears at the top of the screen.

7. Scroll up or down to view channels and descriptions. Press **SELECT** to add channels to your list.
8. When you have added all of the channels you want to your list, use the navigation buttons to highlight and **SELECT** the **Exit** tab to resume viewing.

Once you have created your lists, Use the remote control **FAVORITE** button to cycle through them quickly and easily. Each press cycles to next channel list. You can also select a list by highlighting the **Fav List** tab.



Renaming a channel list:

1. Highlight the **Rename** button and press **SELECT**.
A **Rename List** pop-up menu appears. You can rename the first three lists. You cannot rename the **All** and **Family** lists.
2. Highlight the list you wish to rename and press **SELECT**. A buttonboard pop-up panel appears.
3. Highlight the desired letter using the navigation buttons.
4. Press **SELECT** to enter the letter.
5. When finished, Select **OK**.

Creating an Auto Set list

1. **SELECT** the **Auto Set** button. A pop-up menu appears showing each of the channel lists.
2. Highlight and **SELECT** a channel list to be programmed.
Once selected, the **Auto Set Progress** pop-up status panel appears. It may take several minutes for the receiver to scan through all of the channels and determine which ones you are authorized to receive. The results of this scan will be stored in the designated channel list.

Note: **Auto Set** may exclude some channels such as the Music Choice channels or include some pay per view channels. This does not mean that the receiver is faulty. These channels were excluded or included due to the DIRECTV Receiver's analysis process. You can manually edit the lists to correct these oversights.

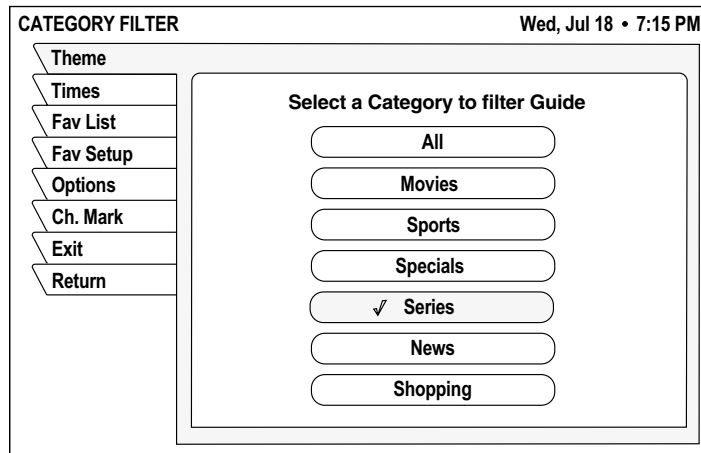
Adding and removing all channels

Selecting the **Del All** menu button clears all channels from the list you have chosen. **Add All** has the opposite effect, creating a list of all the channels you are authorized to receive.

Filtering the program guide

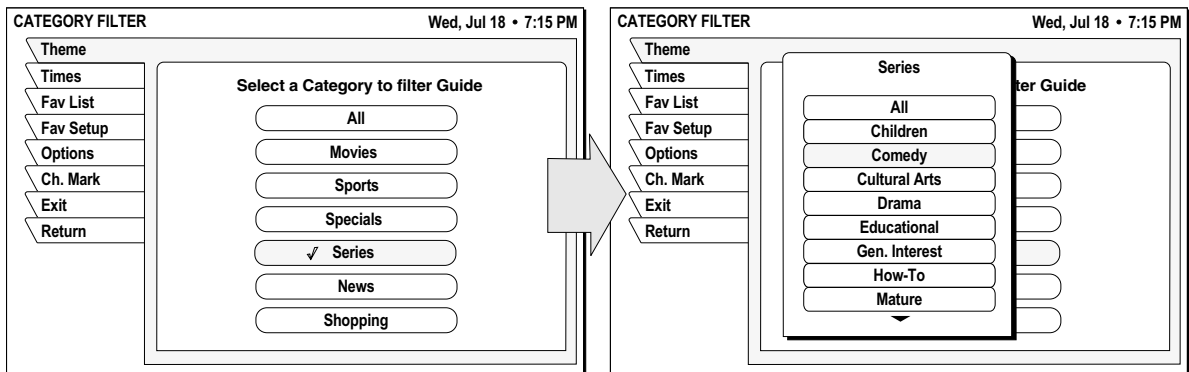
Press the remote control GUIDE button while in a guide. A pop-up menu provides filtering tools and ways to access other guide styles. By combining each of these filter options, you can quickly narrow down channels to those that match your viewing interests.

Using Theme Filters From the **MAIN MENU**, select the **GUIDE OPTIONS** tab. The **CATEGORY FILTER** menu appears, listing all available program category groups.



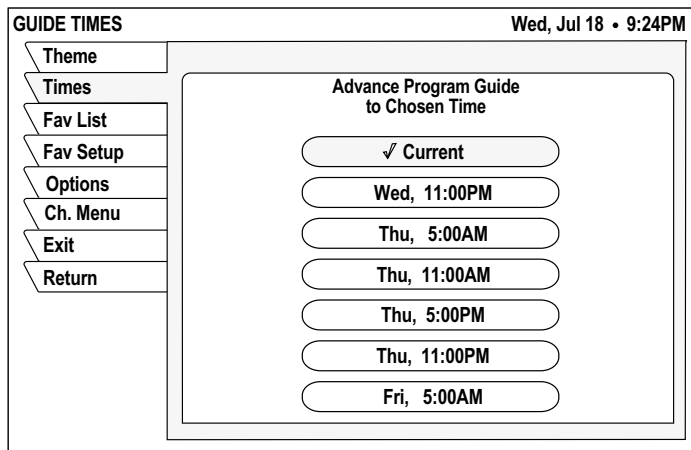
After choosing a category (other than *All*), the drop-down menu is replaced by the *Types* pop-up menu. This menu allows you to further refine a chosen theme. In addition to *All*, you can select popular categories that can be quickly selected using the remote control GUIDE button.

For example, if you chose *Series* for the category, you can now choose a type of movie such as *Children*, *Comedy*, *Cultural Arts*, *Drama*, and others. Refer to the figure below



After selecting one of these, the guide will be further filtered to show only those channels offering programs of the selected category and type.

Selecting guide times Highlight the **Times** menu tab. The **GUIDE TIMES** menu shown below provides easy access to future programming information. Simply select the time you want the guide to begin. After a few seconds, the selected guide appears.



This chapter explains:

- How to lock and unlock the system (*this page*).
- How to set a maximum ratings limit (*see page 36*).
- Setting maximum spending and time limits (*see page 37*).

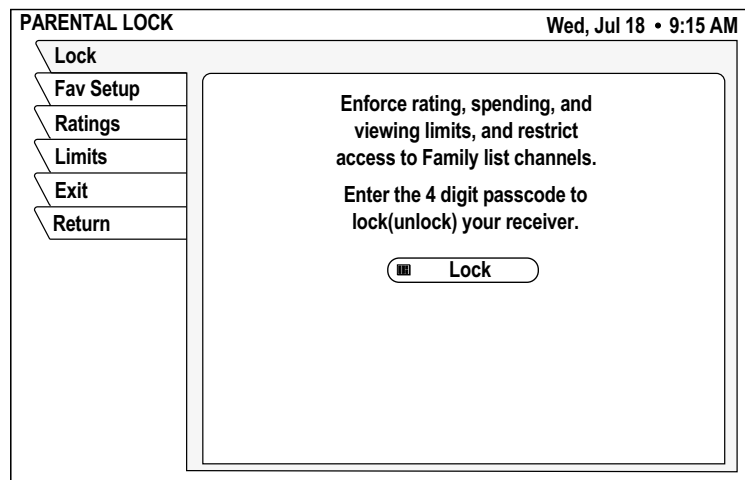
Locks & Limits provides settings to help you control the viewing restrictions of DIRECTV® programming. When accompanied by the channel lists, these limits provide a great degree of control. The DIRECTV Receiver must be locked for the TV Timer, Rating and Spending limits to be enforced.

Locking & unlocking the system

When you first receive your satellite system, it will be unlocked; (i.e., no limits or restrictions are in effect). You must lock the system to enforce the limits (spending, ratings, TV timer, and “Family” favorite list).

Note: Once the DIRECTV Receiver is locked, only existing *Family* list channels will be accessible. If the *Family* list does not contain any channels, no channels can be viewed without first unlocking the receiver. To avoid this, verify the contents of the *Family* list before locking the receiver.

How to lock the system When you SELECT the *Lock* button, the **LOCK SYSTEM** pop-up panel appears.

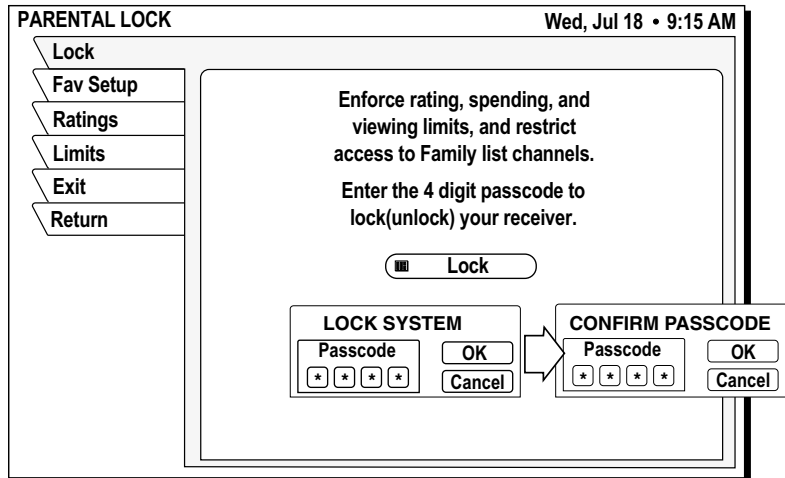


1. Enter a four-digit passcode using the remote control.
2. Highlight and SELECT **OK**.
3. Enter the code again to confirm.
4. Highlight and SELECT **OK**.

Press **Cancel** to clear the locking process.

If you forget your four-digit code, you must call DIRECTV.

Once you select **OK**, the satellite receiver is locked. You must enter the passcode to unlock it. A lock symbol icon appears at the top of every menu screen to remind you that the system is locked.



Unlocking the system To remove the lock and its restrictions:

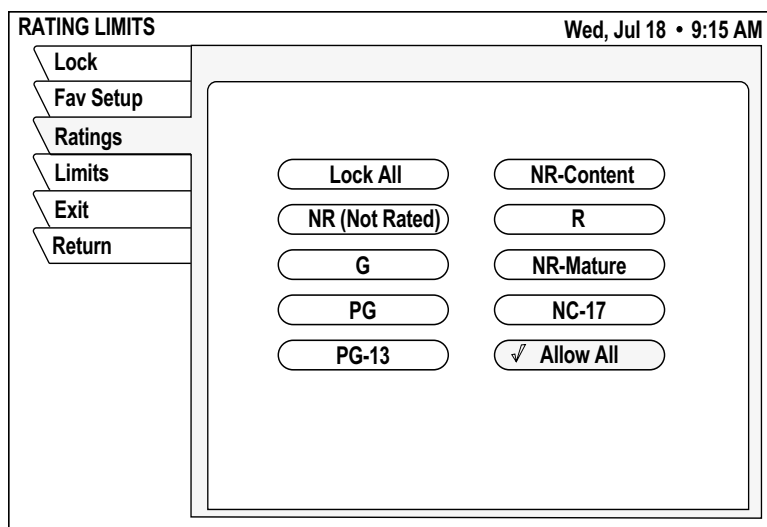
1. Highlight the **Locks & Limits** tab from the **MAIN MENU**.
2. SELECT the *Unlock* menu button.
3. Enter the code you entered to lock the system.

*The button used to lock the system is also used to **unlock** the system.*

Once the system is unlocked, **all limits and restrictions are removed!** Choose **Cancel** to keep the lock in effect.

Setting ratings limits Program ratings indicate the suitability of a program's content for a given audience.

Highlight the **Ratings** tab. Highlight and select the highest rating you wish to allow. The chosen rating will be checked as shown below.



You may choose to **Lock All** or **Allow All** instead of setting a specific limit.

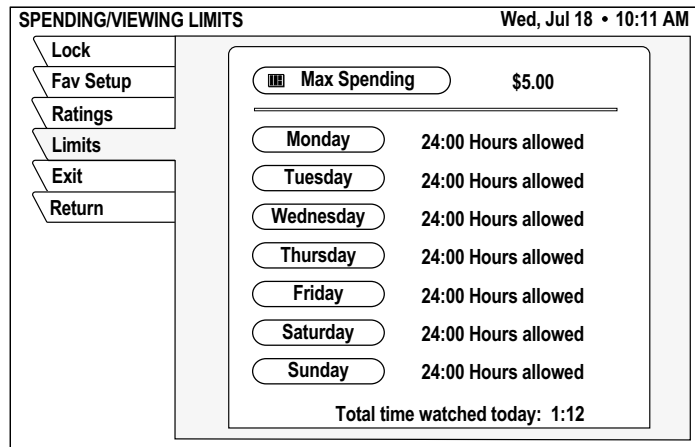
Setting spending and time limits

Highlight the **Limits** tab to set the maximum spending limit. You can set the maximum purchase price on a per-event basis.

To change the displayed limit:

1. Highlight the *Max Spending* button
2. Press SELECT to display the **SPENDING LIMIT** pop-up panel.

Use this menu to set the specific hours and maximum hours the satellite receiver can be used for viewing.



3. Use the number buttons on the remote control to set the limit or use the navigation buttons to increase or decrease each digit.
4. Use the navigation buttons to highlight the digit that you want to change. The maximum limit is \$655 per event.
5. Highlight **OK** and press SELECT to confirm the entered amount.

Questions? Did we forget to tell you something? We have compiled some of the most common questions and their answers here. We hope they help!

Q *I had a signal but now I am getting a message “Searching for satellite signal. To access related utilities, press SELECT.” What happened?*

A Rain clouds and snow can affect the satellite signal reception. This loss of signal is temporary. Also check for new growth on trees and bushes that could be blocking the signal. One other possibility is that the wind or someone has moved the satellite dish antenna.

Q *Why can't I control my TV?*

A Before you can control your TV, VCR, or any other device, you must program your remote control to match your different devices. See Chapter 3 – *Using the remote control* in this manual for specific instructions. If you have already successfully programmed your remote control, try pressing the appropriate function key or sliding the device switch to the appropriate device to put your remote in the proper mode. Then try controlling that device. Also, make sure that the batteries in the remote control are fresh.

Q *My satellite receiver does not respond when I press keys. What's wrong?*

A Most likely, if the front panel keys work but the remote control doesn't work, try pressing the SAT button (or moving the device switch to SAT on the RM-Y812 remote) before trying to control the digital satellite receiver. If that doesn't work, or if the front panel buttons don't work either, unplug your digital satellite receiver for 30 seconds, then plug it back in.

Q *Some channels look good, while others freeze or indicate that no signal is available. What's wrong?*

A The most common causes for this behavior relate to an improperly grounded satellite cable. Check the cable between your digital satellite receiver and the satellite dish antenna. Confirm that RG-6 (not RG-59) cable is used and does not exceed 100 feet in length. Longer cable runs require amplification. This special amplifier is available from your dealer.

Q *How can I watch one channel while recording another?*

A With only one digital satellite receiver, unfortunately, you can't. Each receiver can only decode one channel at a time.

Q *I'm getting a message to call a telephone number. Why?*

A There are many different reasons for this. If you want to watch the channel that is displaying the message, call DIRECTV at 1-800-347-3288.

Q *Why don't I have an on-screen offer to purchase pay per view programs?*

A There are three possibilities; your digital satellite receiver must be connected to a phone line and it is not, or DIRECTV doesn't realize that

your phone line is connected or has disabled your ability to make on-screen purchases. Call DIRECTV at 1-800-347-3288 for assistance.

Q Can I receive my local TV programs through my digital satellite receiver?

A There are three ways to receive local programming:

- If you are in an area where local programming is available via satellite and have the proper satellite dish antenna, contact DIRECTV to arrange for the necessary subscription package.
- Install a traditional antenna (i.e., roof mounted, attic mounted, rabbit ears).
- Arrange for basic or “lifeline” cable TV service from your local cable company.

If you select item 1 above, your local programming appears in the program guide like any other channel. For options 2 or 3, connect the local signal to the IN FROM ANTENNA jack on the back of your digital satellite receiver. Use the TV/SAT key to switch between DIRECTV® programming and local programming provided on the OUT TO TV connector.

Q If I have questions about my satellite system or need to have it serviced, who should I call?

A For questions about your equipment, contact the Sony Satellite Information Center at 1-800-838-SONY (7669).

If you need assistance with your subscription, such as adding channels, contact DIRECTV at 1-800-347-3288.

Q I think I set an event to record on my VCR, but when I played the tape back nothing was there. What could be wrong?

A There are several possible reasons for this. First, check that the VCR was programmed correctly and left turned on and the input matches the output from your digital satellite receiver. Confirm that you were authorized to tape the chosen program.

Q Why do I need to connect the satellite receiver to a telephone line?

A The telephone connection is used by the satellite receiver to report purchase activity to DIRECTV.

Q I picked up my telephone and it was making a hissing and squealing sound. Why?

A Your digital satellite receiver was reporting any pay per view activity that may have occurred. This rarely happens and only lasts for a minute or so.

Q What if my question isn't listed here?

A Contact your dealer or the Sony Satellite Information Center at 1-800-838-SONY (7669).

The RM-Y807 and RM-Y812 remote controls are compatible with most models of the following brands:

TV Codes

Manufacturer	Code
Sony	101
Admiral (M. Ward)	102, 109, 114
ABC	112
Bell & Howell (M. Ward)	109, 114, 138
Broksonic	103, 112
Craig	120–123
Croslex	111
Curtis Mathes	103, 119, 123
Daewoo	103, 135, 136
Daytron	113
Emerson	103, 113, 115, 120–123
Fisher	125
General Electric	102, 103, 107, 118
Goldstar	103, 112, 113, 130
Hitachi	103, 113, 131, 132
JCPenney	102, 103, 107, 118, 130
JVC	128, 129
KTV	103, 113, 123, 133, 134
LXI (Sears)	102, 103, 111, 112, 119, 125
Magnavox	107, 111–113
Mitsubishi/MGA	103, 112, 124
NEC	103, 112
Panasonic	107, 116–118
Philco	109, 111, 118
Philips	111
Pilot	103
Pioneer	118, 119, 137
Portland	103, 108
Quasar	107, 110
Radio Shack	102, 112, 123, 124
RCA/Proscan	102–108
Samsung	103, 112, 113, 126
Sanyo	125
Scott	112, 123
Sharp	113–115
Signature 2000 (M. Ward)	109, 114
Sylvania	108, 111, 112
Symphonic	123, 139
Teknika	109
Toshiba	114, 119
Videch	103, 112, 131
Wards	103, 112, 113, 115
Zenith	108, 110

VCR Codes

Manufacturer	Code
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 347
Bell & Howell (M. Ward)	330, 343
Broksonic	317, 319
Canon	308, 309
Citizen	332
Craig	302, 315, 332
Curtis Mathes	304, 309, 338
Daewoo	309, 312, 341
DBX	314, 336, 337
Dimensia	304
Emerson	316–320, 341
Fisher	330, 333–335
Funai	338
General Electric	304, 309, 329
Go Video	322, 339, 340
Goldstar	332
Hitachi	304, 305, 306, 338
HQ	315
Instant Replay	308, 309
JC Penney	304, 305, 309, 314, 330, 336, 337
JVC	314, 336, 337
Kenwood	314, 332, 336, 337
LXI (Sears)	305, 330, 332–335, 338
Magnavox	308–310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	304, 305
Mitsubishi/MGA	323–326
Multitech	321, 325, 338
NEC	314, 336, 337
Olympic	308, 309
Optimus	327
Panasonic	306–309
Pentax	304, 305
Philco	308, 309
Phillips	308–310
Pioneer	308
Quasar	306, 308, 309
RCA/Proscan	304, 305, 308–313
Realistic	309, 324, 328, 330, 335, 338
Sansui	314

VCR Codes (continued)

Manufacturer	Code
Singer	315
Samsung	313, 321, 322
Sanyo	330, 335
Scott	312, 313, 321, 323-326, 335
Sharp	325, 327, 328
Shintom	315
Signature 2000 (M. Ward)	327, 336
Sylvania	308-310, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336-338
Technics	308, 309
Teknica	338, 342
Toshiba	311, 312
Wards	327, 328, 331, 332, 335
Yamaha	314, 330, 336, 337
Zenith	331

DVD Codes (RM-Y807 Only)

Manufacturer	Code
Sony	601
Panasonic	604
Pioneer	605
RCA	602
Toshiba	603

AMP (Amplifier) Codes (RM-Y807 Only)

Manufacturer	Code
Sony	501, 521
Denon (Sharp)	516-518
Harmon	519
JVC	506-508
Kenwood	504, 505
McIntosh	520
Onkyo	512, 513
Pioneer	502, 503
Technics	509-511
Yamaha	514, 515

Limited Warranty

Digital Satellite Receivers

SONY ELECTRONICS INC. ("SONY") warrants this hardware Product against defects in material or workmanship as follows:

1. Labor: For a period of 90 days from the original date of purchase, if the Product is determined to be defective, SONY will repair or replace the Product at no charge. After this 90 day period, you must pay for all labor charges.
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For product information or operation, for service assistance or for resolution of a service problem, call:

Sony Satellite System Information Center
1-800-838-SONY (7669)

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)

About Sony Customer Support

Every DIRECTV System manufactured by Sony comes with Sony's Express Support at no charge to you. In the event of a system failure meeting the requirements stated above which occurs within ninety (90) days from the original date of purchase, our Express Support Program can have a replacement receiver on its way to you via overnight Federal Express (for calls Monday-Friday until 7:30 pm Eastern Time; Saturday delivery depends upon zip code). All it takes is a valid credit card to cover a security deposit, and Sony will pay freight in both directions.

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Specifications

Input Jacks	Cable Type
VHF/UHF IN	75 ohm f-type
SATELLITE IN	75 ohm f-type
RF REMOTE (<i>SAT-A65 only</i>)	Supplied RF Antenna
AC IN (120 V, 60 Hz)	Supplied AC Power Cord

Output Jacks SAT-A65	Cable Type
VHF (SAT)/UHF OUT	75 ohm f-type
VCR CONTROL	Supplied VCR Controller
LOW SPEED DATA	RJ-11
DIGITAL AUDIO OUT (OPTICAL)	Optical Rectangular
S-VIDEO	4-pin mini DIN
AUDIO L/R (2)	RCA Type
VIDEO (2)	RCA Type
TEL LINE	RJ-11

Output Jacks SAT-B65	Cable Type
VHF (SAT)/UHF OUT	75 ohm f-type
S-VIDEO	4-pin mini DIN
AUDIO L/R	RCA Type
VIDEO	RCA Type
TEL LINE	RJ-11

General

Input Frequency	950-1450 Mhz
Power Requirements	120 V AC, 60 Hz
Power Consumption	24 W typical
Dimension (w/h/d)	11.0 x 2.5 x 8.4 inches 280 x 64 x 214 mm
Weight (unit)	3.5 lbs. (1.6 kg)

Supplied Accessories	
Remote Control	RM-Y807 (SAT-A65) RM-Y812 (SAT-B65)
Size AA Batteries (2)	
Access Card	
Audio/Video Cable	
S-Video Cable	(<i>SAT-A65 only</i>)
Coaxial (RF) Cable	
Telephone Line Cord	
VCR Controller (1)	(<i>SAT-A65 only</i>)
RF Antenna	(<i>SAT-A65 only</i>)

Optional Sony-brand Digital Satellite Receiver Accessories

Satellite Antenna	
SAN-18D4	
Satellite Antenna	
SAN-24MD1	
Local TV Antenna	
ANJ-AA1	

Design and specifications are subject to change without notice.

A

- A/V receiver, connecting 9
- Access card, new 24
- Advance select 19
- Aligning the antenna 4
- Alternate audio 21
- Antenna
 - alignment values 4
 - cable, connecting 2
 - pointing 4
 - terrestrial 7
- Audio
 - balance 21
 - balance control 22
 - connection 22
 - digital 22
- Azimuth angle, determining 4

B

- Balance, audio 22
- Batteries, installing 15
- Brightness, video 23
- Button board, change layout 24

C

- Caller ID, disable 26
- Can't Tape message 10
- Cancel purchase 18
- Changing menu language 26
- Channel banner
 - location 30
 - removing from screen 30
- Channel Mark, assigning channels 30
- Channel Set function 25
- Color scheme, changing 26
- Contrast, screen 23
- Controls
 - front panel 4
 - VCR, testing 9
- Crosstalk, reducing 25

D

- Default audio 21
- Delete event, preselected 20
- Dish antenna pointing 4
- Dolby
 - digital connection 9
 - logo icon 21

Pro Logic 10

E

- Edit preselected program 20
- Elevation angle, determining 4
- Emitter, VCR control cable 9
- English language menus 26
- Entertainment system, connecting 9

F

- Factory settings, restore 26
- Front panel controls 4

G

- Guide
 - features 29
 - grid style 27
 - logo style 28
 - selecting style 27

H

- History, purchase 18

I

- Icons
 - interactive features 16
 - menu 3
 - multiple box 3
 - new mail 26
 - on-screen display 3
 - option list 3
 - taping 19
 - toggle 3, 24
 - viewing 19
- ID, receiver 25
- Info Banner, using 30
- Input key enable 25

L

- Language, menu 26
- Locate satellite 4
- Locking a channel 25

M

- Mail
 - Erase 26
 - message 26
 - viewing 26

Menu

- color 26
- features 29
- function overview 17
- icons 3
- language 26
- tabs 29
- Menu"translucency 26
- Multiple box icon 3

N

- Navigation buttons
 - functions 11, 15
 - remote control 15
- New mail icon 26

O

- On-screen menu language 26
- Optimize 22
- Options list icon 3
- Ordering events via phone 18
- Output channel, setting 25

P

- Past purchases pane 18
- Pay per view
 - history 18
 - purchase 18
 - upcoming events 18
- Phone jack connection 3
- Picture-In-Guide
 - options 27
 - turning off 28
- PicturePerfect, adjusting 22
- Preferences, system 25
- Program guide
 - features 29
 - styles 27
- Purchase Pay Per View event 18
- Purchases not listed 18

R

- Rear panel
 - connections 2
 - phone jack connector 3
- Receiver ID, changing 25
- Recording
 - unattended 19
 - VCR setup 20

Remote control
 batteries 15
 models 11
 sensor, VCR 8
Replacing batteries 15
Restore factory settings 26

S

Saturation, video 23
Scanning remote control codes 11
Schedule programs 19
Search entries 24
Search for words 23
SELECT control 15
Selecting a menu item 15
Signal indication 5
Spanish language menus 26
Standby mode 24
Surround sound, Dolby 9

S-Video connection 3
System menu functions 24
System Setup screen 4

T

Tabs, menu 29
Tag boxes 31
Telephone connection 3
Testing
 results 5, 6
 satellite signal 5
Toggle icon 24
Translucency setting 26
Transponder
 signal strength 5
 testing 5
TV connection types 3

U

Unattended recording 20
Unviewed purchases 18
Upcoming purchases menu 18

V

VCR
 connecting 8
 control cable 8, 9
 remote control sensor 8
 SETUP menu 9
 testing 9
Video
 contrast 22
 saturation 22

Z

ZIP code antenna alignment 4

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service or programming:
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