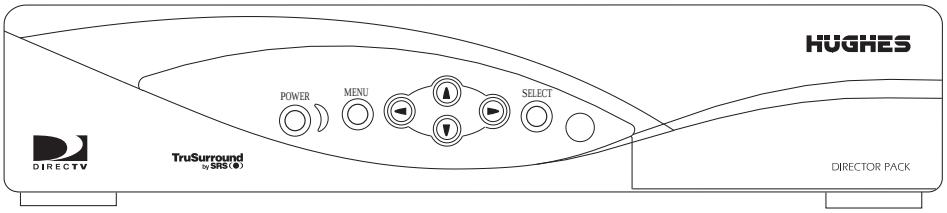
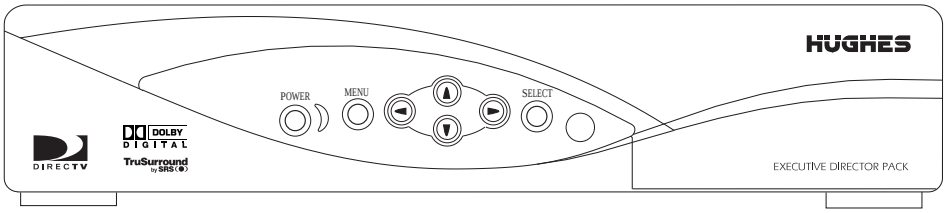
HUGHES

Digital Satellite Receiver

Owner's Manual





Models GAEB0
GCEB0

Draft A.03
5/1/01

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Note on recording programming

Most television programs and films are copyrighted. This means that someone has legal rights governing the reproduction and distribution of this material. In certain circumstances, copyright law may apply yo to private in-home taping of copyrighted materials. In most cases, it is permissible to record for your personal use, as long as you do not sell the material. You must act responsibly in this area–check into the matter if you are unsure.

Some pay-per-view programs may be licensed from producers as “view-only” programs. These are copyrighted programs, and may not be copied or reproduced for any purpose without the express written permission of the copyright owner.

DIRECTV© Programming

For subscription information, pay-per-view, or to resolve problems related to programming, contact DIRECTV at 1-800-DIRECTV (347-3288). DIRECTV© programming is sold separately and independently of DIRECTV System hardware. A valid programming subscription is required to operate DIRECTV System hardware. Please contact DIRECTV directly at 1-800-DIRECTV to order programming.

DIRECTV© system hardware and installation

To arrange for professional installation of your DIRECTV system, ask questions, or to resolve problems related to your DIRECTV system, contact your dealer. If you need more information, please contact the Customer Care Center toll-free at 1-800-274-8995.

Please record the following information for warranty

System Model #: HSYS- _____ _____ _____ _____ ____

Receiver Model #: _____

Receiver Serial #: _____

Access Card #: _____ _____ _____

LNB Serial #: _____

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 the following safety information carefully. Danger, Warning, Caution, and Notes defined below are used in this guide to alert you to, and familiarize you with possible safety and equipment hazards. Keep this safety information where you can refer to it if necessary.

Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.

Follow Instructions - All operating and use instructions should be strictly followed.

These alert definitions are used in this manual:

DANGER

Indicates an imminent shock hazard that, if not avoided, will result in death or severe personal injury caused by electric shock.

WARNING

Indicates a hazard or unsafe practice that, if not avoided, could result in death or severe personal injury.

CAUTION

Indicates a hazard or unsafe practice that might result in moderate or minor personal injury.

These alert definitions appear in this manual:

DANGER

Do not select a location to install the satellite dish antenna near electrical power lines. You can be *killed* if the satellite dish antenna comes into contact with electrical power lines.

- **Do not contact overhead power lines.**
- **Check the distance to any nearby power lines before starting installation. Stay at least 20 feet (6.1 meters) away from all power lines.**
- **If any part of the satellite dish antenna or mast assembly contacts a power line, call your local power company for assistance. *Do not try to remove it yourself*. They will remove it safely.**

WARNING

For your safety, follow these important safety rules:

- **Perform as many tasks as possible on the ground.**
- **Do not attempt to install the satellite dish antenna on a rainy or windy day.**
- **If you start to drop the satellite dish antenna or mast assembly, get away from it and let it fall.**

CAUTION

Local electrical codes and the National Electric Code (NEC) require the satellite dish antenna to be grounded. Grounding the satellite dish antenna helps protect against damage caused by static voltage buildup. Grounding can also protect against voltage surges created by nearby lightning strikes.

Note: A note presents additional information.

INSTALLATION

Polarization– This digital satellite 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 digital satellite 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– Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and at the point where they exit from the product.

Overloading– Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause a fire or expose you to possible electric shock.

Ventilation– Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. Never block the openings by placing the product on a bed, sofa, rug, or other similar surface. Do not place this product in a built-in installation such as a bookcase or rack unless it is properly ventilated, or you have followed the manufacturer's instructions.

For electrical safety, power line operated equipment or accessories connected to this unit should bear the UL listing mark 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.

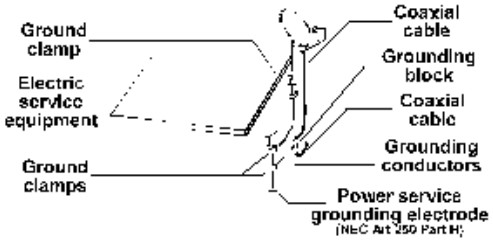
Heat– The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Accessories– To avoid personal injury or damage to the digital satellite receiver, do not place the digital satellite 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 Hughes 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 observer 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.

Antenna grounding example from the National Electrical Code instructions contained in "Radio and Television Equipment"



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 digital satellite receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. This digital satellite 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.

Note to CATV System Installer– This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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 satellite 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 digital satellite 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 digital satellite receiver.

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

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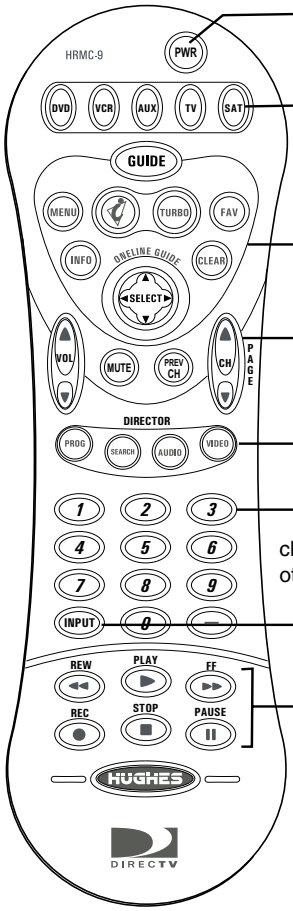
The satellite receiver front panel buttons provide the basic controls needed to access and use the primary DIRECTV features. Additional buttons on the remote control provide shortcuts or access to extended features. Most remote control buttons can also control other components in your entertainment system.

Basic remote control functions

This chapter explains how to use the remote control to perform basic DIRECTV system functions (*HRMC-9 remote control shown*)



POWER - Turns satellite receiver power on and off.

COMPONENT SELECT buttons - Selects the component that you want to control. Buttons illuminate to indicate the component that the remote control is set to operate.

RECEIVER CONTROL buttons - Access frequently used functions (see below).

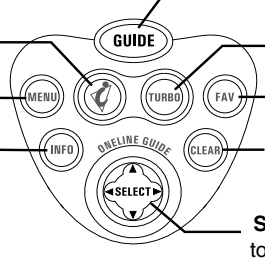
CHANNEL SELECT/PAGE - Moves to the next or previous channel during viewing. Allows you to page through program guides and menus.

DIRECTOR buttons - One-touch navigation to Program Guide, WatchWord, audio, and video setup

NUMERIC KEYPAD - Allows you to enter channel numbers directly, or amounts, and other numbers (interactive).

INPUT - Selects the program source.

VCR CONTROL - Performs VCR control functions.



PROGRAM GUIDE- Show the Program Guide.

INTERACTIVE GUIDE - Use interactive functions

TURBOTUNE- View the TurboTune guide.

MAIN MENU View the Main Menu

FAVORITES - List your preferred programming.

INFORMATION View information about the current program

CLEAR - Quit current on-screen function and return to previous activity.

SELECT/MOVE/ONELINE GUIDE - Press to select an on-screen option, move the highlight, change channels, or move the OneLine guide forward or backward.

Using the Remote control buttons

The most versatile remote control feature is the SELECT joystick. The joystick allows you to perform virtually all on-screen functions including:

- Selecting a highlighted screen menu item.
- Moving the screen highlight (or *cursor*) up, down, left and right
- Humping directly to the OneLine™ guide.
- Using the OneLine guide to change channels.

Use the joystick to move up, down, left, or right through any of the on-screen menus. Press the joystick to select a highlighted menu option.

Press the joystick up or down to display the OneLine guide while you are watching any program. When the OneLine guide appears, press the joystick left or right to move the guide forward or backward from the current time. Press the joystick up or down to step to the next higher- or lower-numbered channel.

Use the channel (CH) button to move up or down to the next available channel, or enter the number of the desired channel. Local programming delivered via satellite (if available) is located in channel numbers below 100. Channels that are not traditionally local broadcasts start at channel 100 and can go as high as 9999.For example, to go to the Direct Ticket movie previews, simply press 1 0 0. If the channel does not change right away, press SELECT.

Use the GUIDE button to display the current on-screen program guide. Press the button a second time while a program title is highlighted to display the Guide Setup menu.

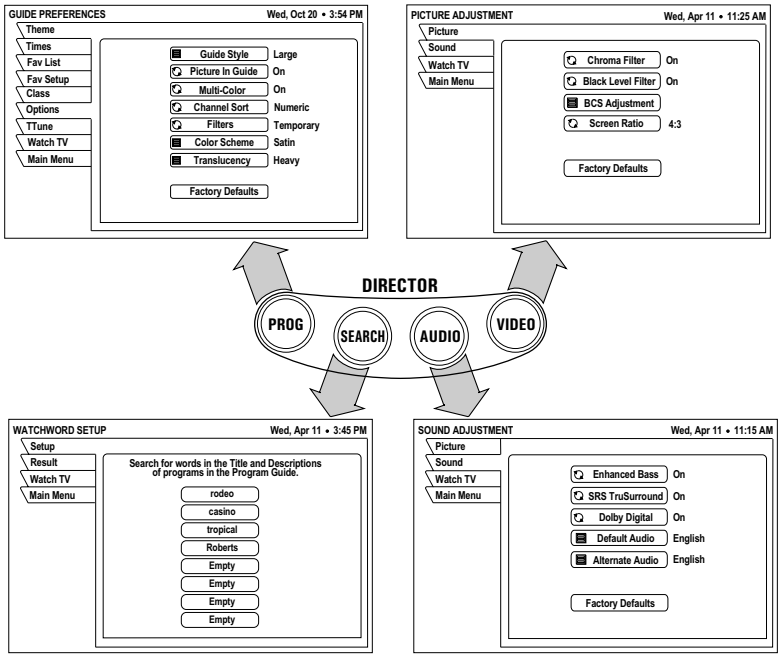
Use the INFO button view descriptive information in the *Channel banner* about a currently airing event. Press the INFO button a second time to see an more detailed information in the *Information Banner*. Use the INFO button to access scheduling information (and purchasing information for pay-per-view) about highlighted programs in the Program Guide.

Press the CLEAR button to exit from any on-screen guide.

Use the INPUT button to switch between DIRECTV® programming and local broadcasts.

Press the SAT button to control the digital satellite receiver.

The DIRECTOR group of remote control buttons provide instant access to audio, video, WatchWord, and Program Guide setup menus as shown in the figure below.



Using Wink™ Interactive DIRECTV

Wink™ is a free, easy-to-use service that allows you to interact with the television shows and advertisements you're watching. When the symbol appears on your screen, you know that the program you're watching has been enhanced with Wink. Simply press the “Wink” button on your remote control. You can reply to free offers, request information, buy products, get sports scores and updated weather, participate in games, and more, while continuing to watch the program.

You may customize on-screen guides to show only channels or program listings of interest to you. Other on-screen guide features, such as scheduling and program information, will help plan your viewing.

Program Guide features

The guide name always appears in the upper left corner. It may be something simple like "PROGRAM GUIDE," or it could be more descriptive such as "COMEDY MOVIES GUIDE" if you have filtered the guide. See *Filtering the Guides* on page 18.

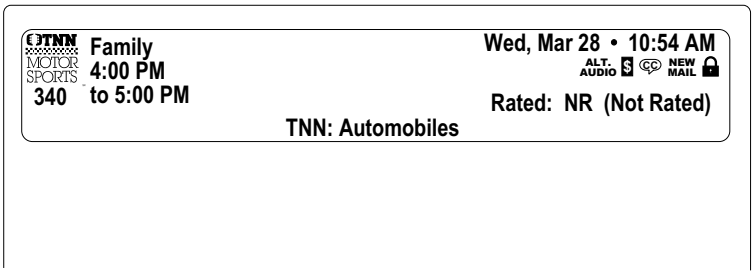
- Indicators showing how the guide is further filtered appear beneath the guide title. The label to the left of the bullet shows the current class filter setting. The current channel list appears to the right of the bullet.
- The day of the week, date, and current time appear in the upper right corner of the screen.
- Beneath 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*.

Icon	$	DATA SVCS.	ALT. AUDIO	CC	NEW MAIL			CAN'T TAPE	DOLBY DIGITAL
Meaning	Pay per view	Data available	Other audio available	Closed caption available	Unread mail	Limits enforced	Limits over-ride	Taping not allowed	Dolby Digital audio available

Guides may be filtered into smaller channel groupings, as specified in your personalized *Channel Lists*. You can also reduce number of programs displayed by specifying a *Theme* of interest, and then narrow the offerings further by specifying a *Type* within the Theme. You may also use settings such as *Guide Times* and *Classes*, to personalize program guide content. These options are described later in this chapter.

Using the Channel Banner

The *Channel Banner* appears at the top of the screen whenever you the use the CHANNEL (CH) button to change channels. You can press the INFO button to display the banner at any time.

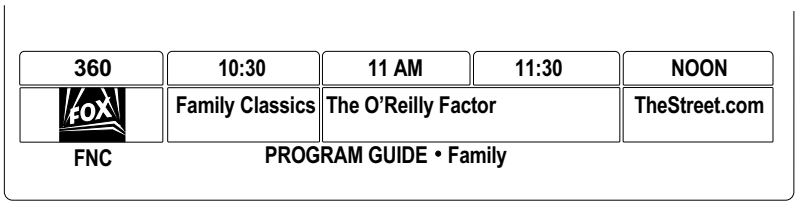


For additional information, press the INFO button a second time to view the *Information Banner* which appears beneath the Channel Banner. The Information Banner provides any available description of the current program.

Both banners disappear from the screen after a few seconds. Press the CLEAR or INFO button to instantly remove them from the screen.

The OneLine™ Guide

The OneLine Guide appears at the bottom of the screen when you press the joystick up or down while watching video programming. You will see the channel call sign and number, titles, and program start and end times..



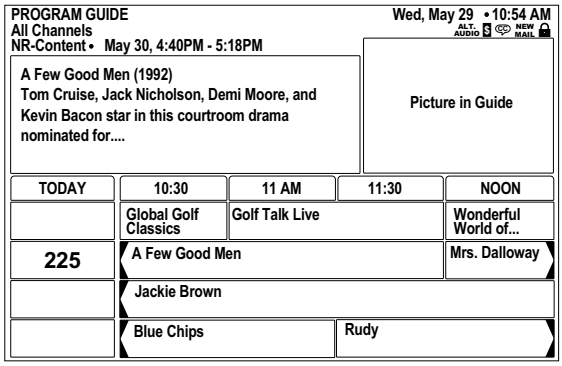
Press the joystick up or down while using the OneLine Guide to see the next or previous available channel. When you see something you like, press SELECT to tune to the channel. You can also enter a channel number using the numeric keypad to jump the OneLine Guide to that channel. The FAV button and other filter buttons can modify the the OneLine Guide content. Press CLEAR to remove the guide from the screen.

Selecting a Program Guide style

You may select from two types of on-screen Program Guides: the default *Large Cell Guide* and the *Logo Guide*. Both guides can be further customized to suit your individual preferences.

Large Cell guide

The program guide displays two hours of programming. This style displays several rows of channels with columns (or *program grid)* indicating the time period of the programming. This layout makes it very easy to see what programming at what time is being offered. Some cells have arrows indicating that the program started at an earlier time or continues until a later time than shown in the grid.



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

Displaying program descriptions.

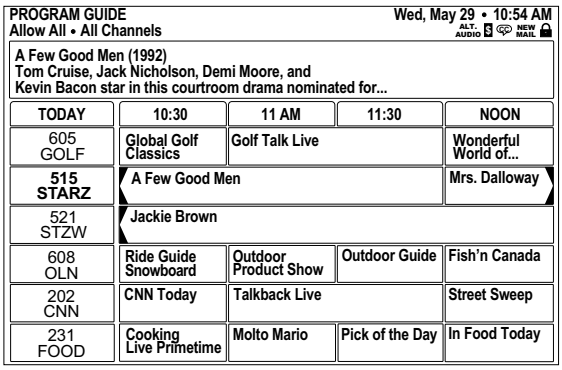
You can configure the program guide several ways. The default setting uses the *Picture-in-Guide* feature that shows a smaller image of the current program in the upper right corner of the guide as shown above. Four channels are visible using this feature. With the Picture-in-Guide feature turned off, six channels are visible. Eight channels can be seen at one time if the *program description* option is disabled.

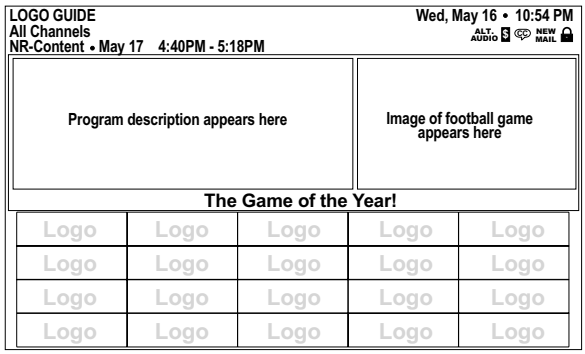
One guide option is to automatically display descriptions for highlighted program titles as shown in example above. The descriptions usually provide information such as actors' names, a program synopsis, and additional rating

information. Descriptions may be only a simple message describing what type of program is highlighted, such as “Current News.”

This option is chosen via the *Descriptions* button on the guide pop-up menu. Displaying the extra information reduces the number of channels or titles that can be displayed at one time. You can always access program descriptions by pressing the INFO button, regardless if *Descriptions* option is selected.

To display the on-screen guide, press the remote control GUIDE button. Press the GUIDE button again to use the *Guide Preferences* setup menu.





To choose a guide style, simply highlight the *Theme* button and press SELECT. Highlight your selection and press the SELECT button. The guide will be

redrawn to display your selection. Select the *WatchTV* tab to return to the program you were watching.

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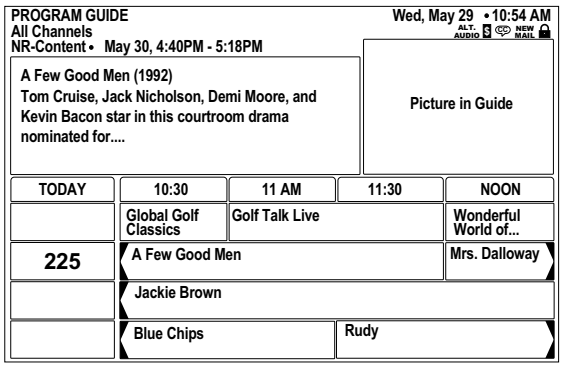
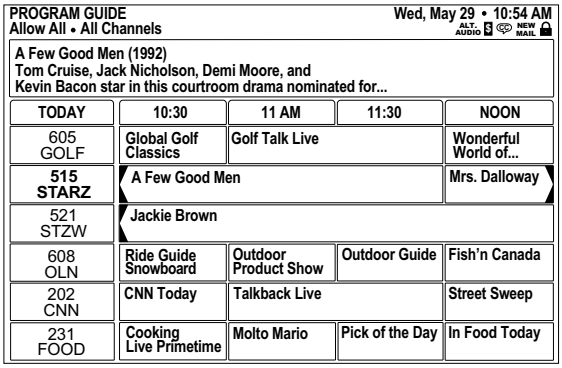




A time line spanning the width of the guide indicates the show times of the programs being displayed. The list of blocks running down the left-hand side are *channel tags*. The tags may show the channel numbers and call signs or

network logos, depending on the PREFERENCES screen option selected (see page XX).

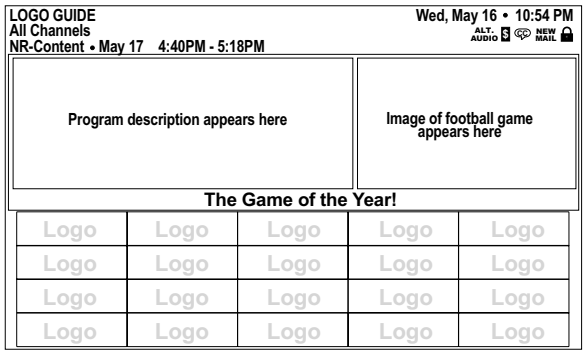
Also, the *Channel Sort* (name or number) option specified in the system's PREFERENCES screen will dictate whether the channels are listed by channel number, or alphabetically by call sign.

Use the CHANNEL (CH) SELECT button to scroll through the guide entries a full page at a time. When the highlight is in the grid, use the ⊕ buttons to move left and right.

Move the highlight to the right to move the grid area to reveal later time periods.

Logo Guide

For viewers that choose their programming more by the channel, rather than by program title, this is the best option. This guide style offers the greatest number of channels displayed simultaneously..

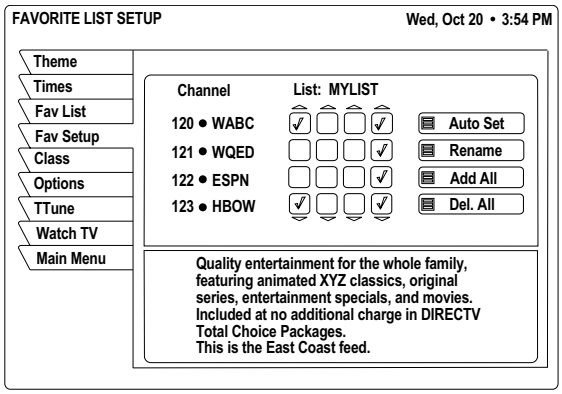


The title of the program currently airing on the highlighted channel appears in the header area immediately above the logo grid. Only current programming is available from the Logo GuideUse the CHANNEL (CH) SELECT button to scroll through the guide entries a full page at a time. When the highlight is in the grid, use the ⊕ buttons to move left and right (and up and down?).

Using Channel Lists

Channel Lists are provided to help you organize the hundreds of available channels into groupings that suit the needs of your household. Each list can contain as many or as few channels as you would like. You can customize these groupings in a variety of 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. Each of the lists, with the exception of Family, can be renamed.



Note: ***NOTE:*** *Once the digital satellite receiver is locked, only existing Family* list channels will be accessible. If the *Family* list has not had channels added to it, no channels can be viewed without first unlocking the digital satellite receiver. To avoid this inconvenience, set up the *Family* list before locking the digital satellite receiver.

Rename

When you highlight the *Rename* button and press the SELECT button, a Rename List pop-up menu appears. You can choose any of the first three lists to be renamed. The *All*, *Family*, and *Top 10* lists cannot be renamed. Once you have selected a list, a Rename List entry buttonboard pop-up panel appears. You can highlight the desired letter using the ✥ buttons. Press SELECT to enter the letter. When you have finished, choose *OK*.

Auto Set

AutoSet helps you set up your channel lists. When you select the *Auto Set* button, a pop-up menu appears showing each of the channel lists. Highlight and select a channel list to be programmed. Once selected, the Auto Set Progress pop-up status panel appears. It will take several minutes for the digital satellite receiver to scan through all 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 digital satellite receiver is faulty. These channels were excluded or included due to the digital satellite receiver's analysis process. You may edit the lists manually to correct these oversights.

Clear

You may decide to remove all channels from a particular list later on. Selecting *Clear* will allow you to clear all channels from a chosen list. You may then add channels back in.

Set

If you decide to include all channels in a particular list, selecting *Set* will allow you to specify the list. You may then remove channels from this list if you so choose.

Tag Boxes

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

In the CHANNEL LISTS screen, use the SELECT joystick to highlight the button that corresponds to the channel number and list that you wish to change. 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.

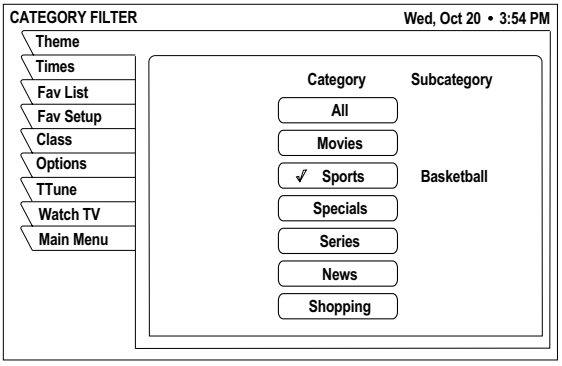
To help you decide whether to include or exclude a certain channel, the title of the currently airing program for that channel will appear at the top of the screen.

Filtering the Guides

Press the GUIDE button while already in a guide, a pop-up menu will display, providing the 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 meet your viewing interests.

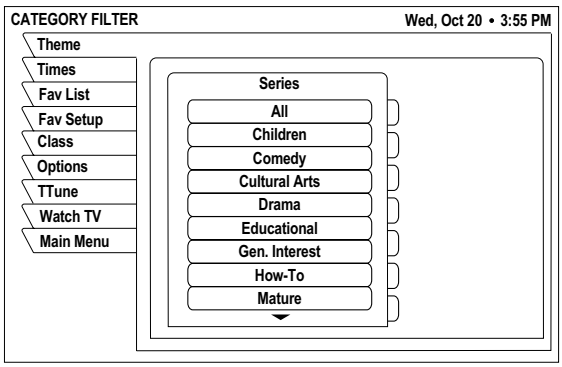
Theme Filters

Highlight the *Theme* tab in the Program Guide menu and press SELECT. is pressed, a pop-up menu appears. This a pop-up menu lists all the available category groupings of programs. You will see on-screen selections for filtering the guide to all, movies, sports, specials, series, news, and shopping.



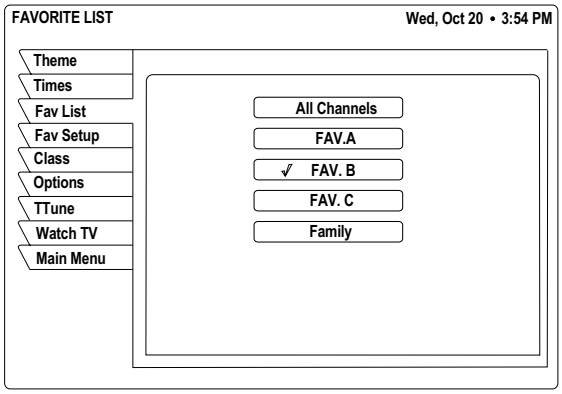
After choosing a category (other than *All)*, the drop-down menu is replaced by the *Types* pop-up menu. This menu allows you to further specify your chosen theme. In addition to *All*, you can select popular categories that can be quickly selected using the remote contro GUIDE button. For example, if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

Series for the category, you can now choose a type of movie such as *Children*, *Comedy*, *Cultural Arts*, *Drama*, and others as shown in the figure below.



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

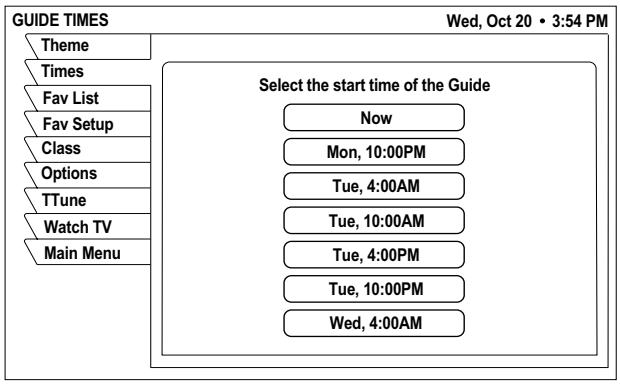
Channel List The Lists pop-up menu enables you to filter the guide to display only channels from the selected list. See page XX to learn how to set up your favorite lists.



You can use the ⊕ buttons to cycle through the lists at any time in the on-screen guide without using the drop-down menu.

Guide Times The *Guides times* pop-up menu provides easy access to future programming information. Simply select one of the hour offsets from the current time. After a

few seconds, the selected guide appears.



Using the Information Screen

To obtain more information about a particular program while viewing one of the various on-screen guides, press the INFO button. This screen is also displayed when pressing the SELECT button on the remote control or front panel in response to a message such as "Press SELECT to order."

Many variations of button combinations exist. The button on the left side of the Things to Do area could be *View*, *PreSelect*, or *DeSelect*. An additional button that could appear refers to pay per view programs only. Unless your receiver is authorized to make such purchases this button will not be displayed. It could be *Buy*, *Cancel $*, or *$ Options*.

These options may be available:

View

After reading the program description and related information, you may choose to view it by highlighting the *View* button and pressing SELECT. If the program is a PPV event, you may need to complete the purchase process (either on-screen or by calling DIRECTV) before the program can actually be viewed.

Show Times

The *Show Times* button provides a simple way to display a concise list of other presentation times for a certain program. Use this button to find a more convenient viewing time.

Show times screen

After selecting an alternate viewing time, you will be returned to an updated INFORMATION screen.

Using TurboTune™

TurboTune provides quick access to nine channels of your choice. Press the TURBO button on the remote control to show the TurboTune panel. Use the remote control MOVE/SELECT button to highlight the desired channel. Press SELECT to tune to that channel. TurboTune is not accessible from the front panel SELECT button.

Shortcut: *Press the numbers 1 through 9 on the remote control to select the desired channel.*

1	2	3
4	5	6
7	8	9

These channels can be specified via the TurboTune button on the SETUP MENU. The header area of the panel displays the title of the program currently airing on the highlighted channel. To select another channel, highlight the desired channel and press SELECT.

Use the TURBOTUNE SETUP screen to choose nine channels that will appear in the TurboTune pop-up panel. Highlight one of the unassigned channel boxes and press SELECT. Enter the desired channel using the numeric remote control

buttons, by using the Channel (CH) button on the remote control, or the satellite receiver front panel ✧ buttons.

After you have established favorite channel lists (see page XX), select Fav List to cycle hrough them quickly and easily. Each press advances to the next list of channels. After stepping through the favorite lists it will return to “All Channels.”

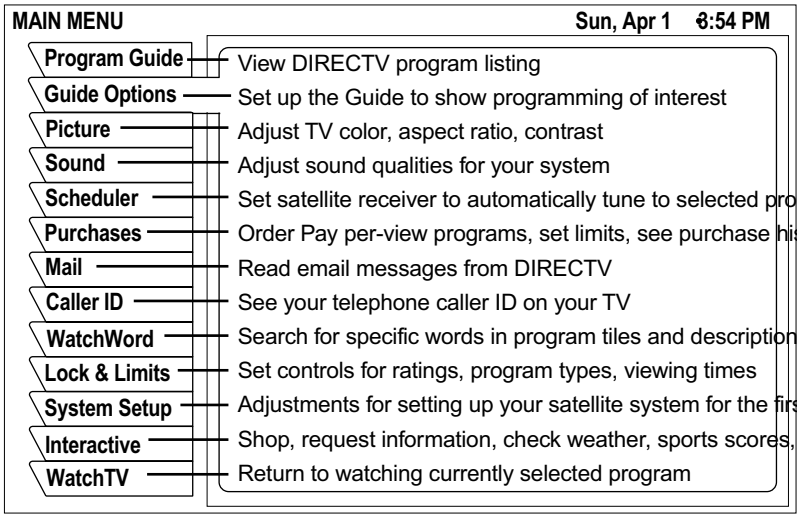
Menu Overview

The menus have been designed to provide a logical and convenient way to access system features and settings. The basic screen layout of each menu is divided into these areas:

- Title, date, and time – Across the top of the screen you will see the title of the current menu on the left-hand edge, and the date and time on the right-hand edge.
- This portion of the screen is dedicated to topics associated with the current menu. Contents usually include buttons for changing settings or checking the status of some feature. You will also see information regarding the current menu

Main Menu

The Main Menu is the primary location where you can access system management functions. Access the Main Menu using the remote control MENU button. The figure below provides a brief description of each Main Menu selction.



Using PreSelect

PreSelect is one of the handiest features of your digital satellite receiver. You can use it to plan your evening or weekend viewing, then let the system do the rest. *PreSelect* will initiate a drop-down menu offering your PreSelect options.

You can perform the *PreSelect* capability from within the on-screen guides. Simply highlight the program you want schedule and press the key. Each press of the key cycles through the available options.

To View will mark the selected program to be automatically tuned in when it airs. At the right time the digital satellite receiver will turn on and tune to the appropriate channel. Your selected programs will be identified on the on-screen guide with a check mark (✓) before the program title.

To Tape is very similar to *To View*; however, if you have connected your VCR to the digital satellite receiver via the IR cable and have properly set the VCR code

from the Setup Menu, the chosen program will be recorded at the correct time. If the digital satellite receiver turned itself on to record the program, it will also remember to turn itself back off after the program ends. Programs you have scheduled for taping will be identified with a videotape icon ( ) before the program title in the on-screen guide.

When using the *PreSelect To Tape* feature the following steps must be completed for the digital satellite receiver to perform unattended recording:

- Attach the VCR Control cable as described in the chapter "Setting Up Your Satellite System."
- Use the **VCR SETUP** screen as described in the chapter "DIRECTV Digital Satellite Receiver's Menu System."
- Set your VCR to match the output of the digital satellite receiver. This could be either RF (channel 3 or 4) or A/V (phono or S-video).
- Insert a recordable videotape of sufficient length in the VCR.
- Leave the VCR turned ON.

Don't Schedule is used if you initiate the drop-down menu and then choose not to schedule anything.

PreSelect To View

The *PreSelect To View* option appears when the unattended recording capability is not available when a program is not authorized for taping. In this case, the digital satellite receiver can still be scheduled to tune to it when it comes on.

Cancel PreSelect

Once a program has been scheduled for viewing, previewing, or taping, you have the option of canceling the action. Schedules can also be canceled directly from the on-screen guide by highlighting a scheduled program and pressing the key.

If you wish to switch between *To View* and *To Tape* or vice versa, you must cancel the current selection first, then choose the newly desired action.

Canceling a scheduled program will also remove the check mark or videotape icon preceding the program title on the on-screen guide.

If the program is currently airing, you will need to delete the event from the **SCHEDULER** screen accessed from the **MAIN MENU**.

Buy

Buy is used for pay per view programming. The price of the event is displayed under the title of the selected program. After highlighting the button and pressing , you will be given the opportunity to confirm your purchase.

If you are not authorized to make the purchase directly from the digital satellite receiver, you will need to contact DIRECTV for assistance.

Buy Options

The *Buy Options* button is similar to the *Buy* button. This button will initiate a drop-down menu with three purchase options: *View*, *Tape*, and *Don't Purchase*.

The *View* price indicates the cost to view the program only. A purchase of this type excludes the possibility of taping the event for later viewing.

The *Tape* price indicates the cost to record the event for later viewing. Of course, you can also view the event when it airs if you select this option.

After choosing either *View* or *Tape*, you may either confirm or cancel the purchase.

If neither purchase option is of interest to you, highlight *Don't Purchase* and press .

Cancel Purchase

Some events may allow cancellation after they have been purchased, depending on the event type, and whether the event has been viewed. Unviewed purchases can usually be canceled. If the *Cancel Purchase* button is displayed, you are allowed to cancel the previous purchase. If this button is not offered, then most likely a portion of the event has already been viewed, committing you to the purchase.

PreSelect permits you to select viewing choices in advance to avoid missing them. Using PreSelect, your digital satellite receiver will automatically change channels according to your selections and control your VCR for unattended recording.

To PreSelect a program, find an upcoming program you wish to watch and press the SELECT button.

PreSelecting Programs for Taping

Programs that have been scheduled to be taped are identified with a videotape icon ( ) before the program title on the on-screen guide. If you do not want to have the PreSelected program recorded, press the SELECT button again to change the setting to be automatically tuned to for viewing.

When using the *Schedule To Tape* feature the following steps must be completed for the digital satellite receiver to perform unattended recording:

1. Attach the VCR Control cable (refer to page XX).
2. Use the VCR SETUP screen.

3. Set your VCR for the correct satellite receiver output: RF (channel 3 or 4) or A/V (phono or S-video).
4. Insert a blank videotape into VCR.
5. Leave the VCR turned on.

PreSelecting Programs for Viewing

Programs PreSelected for viewing have a check mark (✓) before the program title in the on-screen guide.

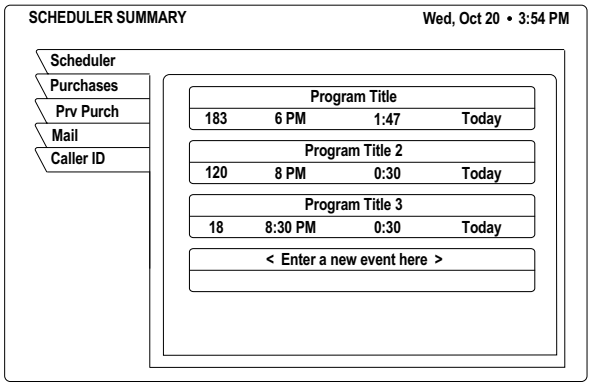
Canceling PreSelected Programs

To cancel a PreSelected a program, find the upcoming program you wish to cancel and press the SELECT button until the check mark (✓) or videotape icon (▭) is no longer shown.

If the program is currently airing, you will need to delete the event from the SCHEDULER screen accessed from the MAIN MENU.

Using the Scheduler

The satellite receiver allows you to have programs taped automatically. The SCHEDULER allows up to 32 events to be programmed in advance.



Use the **S**CHEDULER feature along with your VCR to record programs unattended. The SCHEDULER can be used to automatically tune to a program at a specific date and time or at a specific time on a repeating basis.

When using the *PreSelect To Tape* feature, the following steps must be completed for the digital satellite receiver to perform unattended recording:

- Attach the VCR Control cable as described in the chapter 1.
- Use the VCR SETUP procedure described on page page 36.
- Set your VCR to match the output of the digital satellite receiver. This could be either RF (channel 3 or 4) or A/V (phono or S-video).
- Insert a recordable videotape of sufficient length in the VCR.
- Leave the VCR turned ON.

The *On* column displays a check mark (✓) for viewing only, or a videotape symbol (▭) for taping. The SCHEDULER screen displays up to seven rows of events. Use the ⊕ button to scroll through the events.

Editing an event

The *Events* portion of the screen displays up to seven previously scheduled events at one time. If more than seven events are already scheduled, you may use either the ⊕ button to scroll down, or the ? button to view the additional

events. A small arrow at the top or bottom of the event list indicates that there are additional events.

Once you have highlighted the event you wish to set or edit, press SELECT. You will be prompted with a pop-up menu. If you choose the scheduling option, the digital satellite receiver will turn on (if necessary) and tune to the specified channel at the correct date and time. If the *Schedule to Tape* option is provided and is chosen, and you have successfully completed the VCR setup procedure, the digital satellite receiver will allow recording of the event. To remove a previously scheduled event, select the *Delete* option. If you inadvertently pressed , select Cancel.

After choosing a scheduling option, a pop-up panel appears for channel selection. You can enter the desired channel using either the number buttons on the remote control or the and or and .

After specifying a channel, press the button or select *OK* when you are ready to continue.

Next, enter a *Start* time using either the number buttons on the remote control or the and buttons. Press to continue.

You then must specify whether the time you entered is AM or PM (or N for noon, or M for midnight if the time specified is 12:00) using the and buttons. To continue, press .

Using the same procedure as setting the start time, set the program *Duration* as hours and minutes. As before, use to advance to the *Frequency* column.

The *Frequency* column is very versatile. Using the and buttons, you can specify when, or how often, the event occurs. Your choices are: *Today*, *Tomorrow*, *Every Mon*, *Every Tue*, *Every Wed*, *Every Thu*, *Every Fri*, *Every Sat*, *Every Sun*, *Everyday*, *Mon-Fri*, or "/" to specify an exact date. If you are specifying a date, enter the numbers using the remote control in month/day format. The year will be set automatically. Events can be scheduled up to eleven

months in advance. Once you have set the *Frequency*, use the ?? button to advance.??

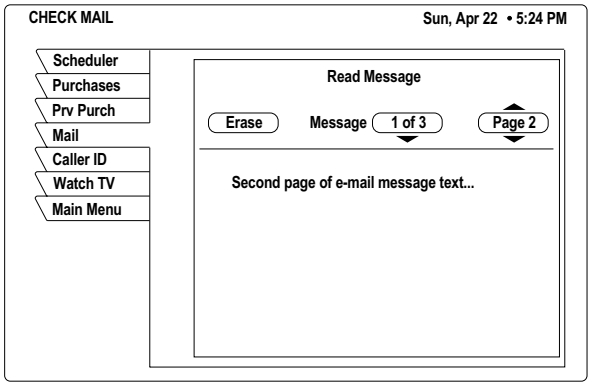
Review your settings and choose *OK*. Otherwise, choose *Cancel* to delete the edits made to this event.

Mail

The CHECK MAIL feature of the digital satellite receiver enables DIRECTV to notify you about important information, upcoming special events, offers, and other promotional programming.

When new messages are received, a “new mail” icon appears at the top of all menu screens. This indicator will remain on the menus until you have read the new message.

When you highlight the *Check Mail* button, the advisory message at the bottom of the screen indicates if there are any messages to read. If there are, you can press SELECT to access the CHECK MAIL screen.



Message – The Message button will allow you to cycle through multiple messages if more than one piece of mail is available. Highlight the Messages button and use the ⊕ to step through the messages.

Page – Use the CHANNEL (CH) button on the remote control to cycle through the pages of a multi-page message.

Erase – The *Erase* button permanently removes a message from your mailbox. Once a piece of mail has been erased, it cannot be retrieved. Messages will self-erase if they become outdated or if space is needed to hold newer incoming messages.

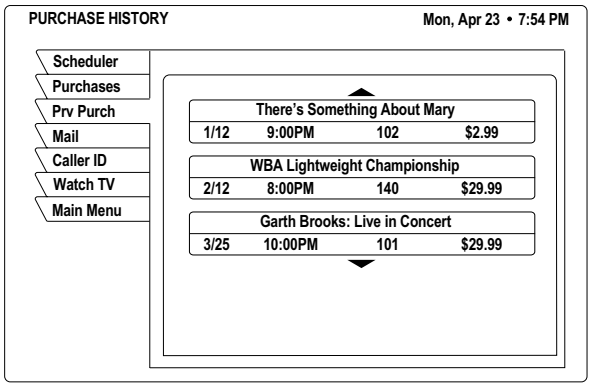
Using Purchases

The PURCHASE screen displays recently viewed and advanced purchased pay-per-view events. You can choose between Purchase History and upcoming Purchases by selecting *PURCHASES* or *PRV PURCHASES.*

For each purchase, the event channel, title, start date and time, and cost is listed. If there are more events than can fit on the screen, use the ⊕ button or advance a page at a time using (CH) to view them

Purchases

The Purchases pane shows your upcoming pay-per-view selections.



Prv Purchases

The Previous Purchases pane shows recently viewed pay per view events that will be or have been charged to you. You will not see events you purchased but later canceled, or cancelable events that were purchased but which the digital satellite receiver never tuned to, will not appear. Events that were ordered by directly calling DIRECTV will also not appear on this list. You cannot remove events from this list.

You will see the event channel, title, the start date and time, and the cost for each purchase. There may be more events than can fit on the screen. You can access these by using the ? button or ? button.

If you need to discuss an event with DIRECTV, highlight the questioned event and press INFO. Additional information will be displayed.

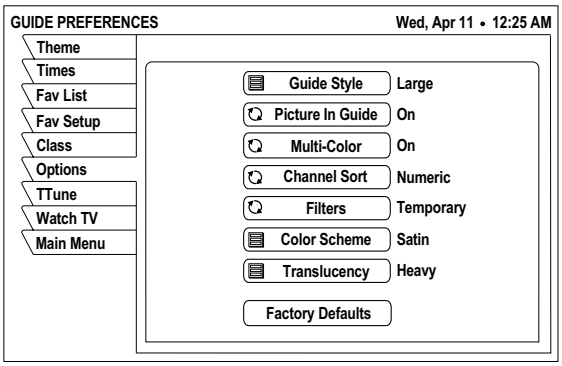
Upcoming Purchases

The *Purchases* screen displays PPV events you have purchased but not yet viewed, or purchased but never viewed. Events that were ordered by calling DIRECTV will not appear on this list. You will see the event channel, title, the start date and time, and the cost for each purchase.

There may be more events than can fit on the screen. You can access these by using the button or button.If you would like to cancel an event, highlight the event in question and press CLEAR. A pop-up panel will be displayed where you may be given the opportunity to cancel your purchase. You may not be able to cancel some events.

Preferences

By changing the various options on the PREFERENCES screen, you can customize the satellite receiver to operate in the way that best suits your needs.



You can access the PREFERENCES screen at any time and as often as you like to change any of these settings. These changes will not harm your system.

Advanced

When you select *Advanced*, the ADVANCED PREFERENCES screen will be displayed. Here, you can also reset all options to the factory default settings.

MultiColor

The *MultiColor* option allows you to choose whether or not programs in the on-screen guide will be color coded to indicate their category. When enabled, programs that are movies will appear on a rose background, sports on a green background, and news on a brown background. All other program categories will continue to appear on a blue background.

Chan. Tags

The *Chan. Tags* option will influence only the appearance of the PROGRAM GUIDE styles. With this control, you may choose whether the channel tags will appear as channel numbers and call signs or as network logos.

Chan. Sort

By default, “Channel Sort Option” is set to *Number*. This numerically lists channels in the program guide. Setting this option to *Name* will display channels in alphabetical order.

Note: NOTE: If you sort the channels by *Name*, please take note. Using the and buttons to step through the channels will appear to change channels a random order when, in fact, the channels are sorted and tuned to in alphabetical order.

Scheme

The SCHEME pop-up menu enables you to select a color scheme for the on-screen guides and menus.

Audio

The **D**EFAULT AUDIO pop-up menu enables you to specify the audio track for programs you watch. While *English* is the default audio, you may choose an alternate audio track. If your chosen audio track is available for the program, you will hear it. Otherwise, you will hear will be the primary audio track in which the program produced.

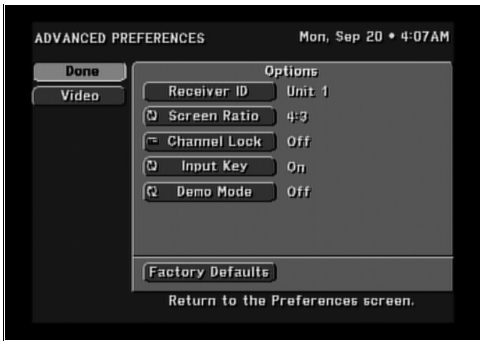
Language

The LANGUAGE option enables you to specify the language in which menus and messages are displayed. While *English* is the default language, you may choose *Spanish*. Be aware that program titles and descriptions will continue to be in English since that text is broadcast.

Filters

The default setting for *Filters* is "Temporary." With a setting of "Temporary," each time you leave the on-screen guide, all filters other than Channel List will reset (all categories and complete class). If you change the *Filters* setting to "Persistent," any filtering that you should happen to do will survive exiting the on-screen guide and be in effect for the OneLine Guide and even later when returning to the on-screen guide at a later time.

Advanced Preferences



The ADVANCED PREFERENCES screen

The ADVANCED PREFERENCES screen contains options that are less likely to require changes once they are set. Most users will not make any changes to this screen. This screen also provides a means to reset all preference options to the factory defaults.

Receiver ID

Someday, you may choose to get a second digital satellite receiver. If both receivers are in the same room or if you are using an RF remote control or a remote control extender, you may experience interference between signals. To avoid this "cross talk," simply highlight the *Receiver ID* button and press on the remote control to be used for that specific digital satellite receiver. Remember to set your remote control to the desired code first. For information

regarding changing the remote control code, see the chapter “Programming Your Remote Control.”

Screen Ratio

Screen Ratio should be set to *4:3* for most televisions, which is the default. This indicates that you are using a standard format television screen. However, if you have a wide-screen television, you may want to change this setting to the *16:9* option. While setting this option to the wrong format will not harm your TV, it may cause a distorted picture.

Channel Lock

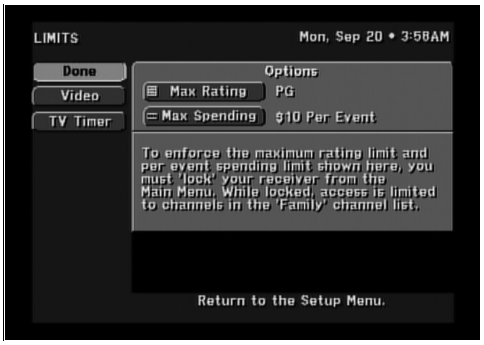
The *Channel Lock* setting provides a way for you to set your digital satellite receiver to permanently stay on a specified channel. When the setting is anything other than “- - - -” the digital satellite receiver will always power up on that channel and will ignore any attempts to change the channel. To allow channel changing to function again, set this option back to “- - - -.”

Input button

The *Input button* option allows you to enable or disable the functionality of the button on your remote control. This is useful if you are not using the local TV pass through capability of your digital satellite receiver and want to avoid getting a snowy picture from inadvertent presses of the button. Note that the pass through capability happens automatically when the digital satellite receiver is powered off.

Using Locks and Limits

The **LIMITS** screen provides settings to help you control the viewing restrictions of DIRECTV® programming. These limits, when accompanied by the **CHANNEL LISTS**, put a great degree of control in your hands. **For the TV Timer, Rating and Spending limits to be enforced, the digital satellite receiver must be locked, as described earlier in this chapter.**



The LIMITS screen

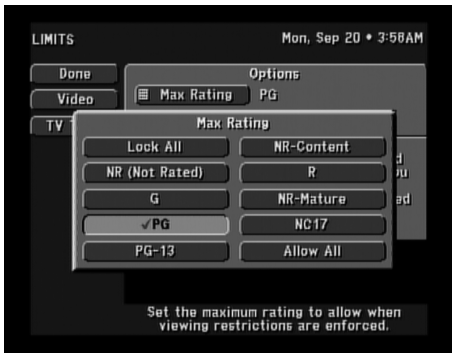
TV Timer

The TV TIMER screen

When you select TV Allow, the TV TIMER screen will be presented. If your receiver is locked, you will need to enter your passcode to access this screen.

From the ***TV TIMER*** *screen you can specify the hours that DIRECTV® programming can be viewed on your receiver. This is done by highlighting each of the days you wish to control and pressing* ▬. *After selecting a day of the week, you can set an acceptable start and end viewing period or* a total viewing duration.

Max Rating

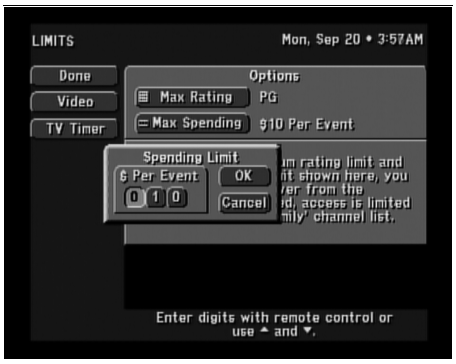


Program ratings indicate the suitability of a program's content for a given audience. For families with younger children, a lower rating limit may be desirable. Other families may choose to allow viewing of more sophisticated programming. The LIMITS **screen leaves this choice and control up to you.**

Highlight the *Max Ratings* button and press ▬ to display the MAX RATING pop-up menu where you set the limit. When the digital satellite receiver is locked, the passcode must be entered to change the ratings limit.

Determine the highest allowable rating for your family and highlight it. When you press ▬ all ratings up to and including the chosen rating will be checked. All higher ratings will be cleared. You may choose to *Lock All* or *Allow All* instead of setting a specific limit.

Max Spending



Pay per view access enables you to purchase special, limited-broadcast events such as sporting events and movies. You can set the maximum purchase price on a per-event basis. To change the displayed limit, highlight the *Max Spending button and press* ▬ *to display the* ***SPENDING LIMIT pop-up panel. When the digital satellite***

receiver is locked, the passcode will be needed to change the ratings limit.

Use the number buttons on the remote control to set the limit or use the and buttons to increase or decrease each digit. Use the and buttons to highlight the digit that you want to change. The maximum limit is $655 per event.

Highlight OK and press to confirm the entered amount.

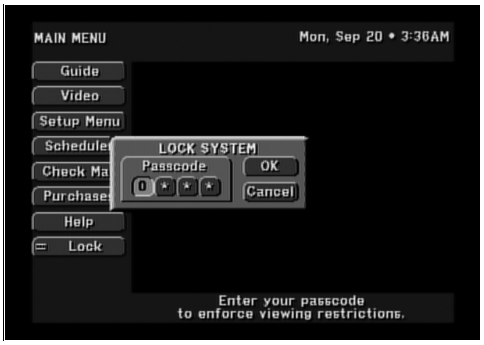
Lock/Unlock

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

- When the button on the MAIN MENU reads *Lock*, no lock symbol appears at the top of the menu screen, indicating that the system is unlocked.

Note: Once the satellite receiver is locked, only existing *Family* list channels will be accessible. If the *Family* list does not have channels on it, no channels can be viewed without first unlocking the satellite receiver. To avoid this inconvenience, verify the contents of the *Family* list before locking the satellite receiver.

How to lock the system



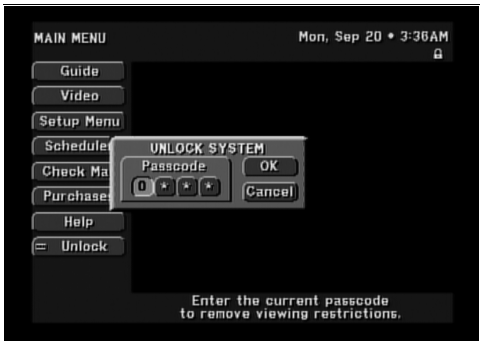
The LOCK pop-up panel

When the *Lock* button is selected, the LOCK SYSTEM pop-up panel is displayed. Use the and buttons or the remote control number buttons to enter a four-digit passcode of your choosing. If you enter the code using the number buttons, you will not see the numbers appear on the screen. After entering a four-digit passcode, highlight and select *OK* to proceed. Otherwise, choose *Cancel* to cancel the locking process.

If you continue, you will be asked to confirm the code by entering it again in the same fashion as before. Once again, highlight and select *OK* to proceed. Otherwise, choose *Cancel*.

Once *OK* has been selected, the digital satellite receiver is locked. You will need code whenever you wish to unlock or override the lock. The button used to lock your system is now used to unlock your receiver. A lock symbol appears at the top of every menu screen to remind you that the digital satellite receiver is locked.

Unlocking the system



The UNLOCK pop-up panel

To remove the lock and its restrictions, highlight the Unlock button and press SELECT.

*When the **SYSTEM UNLOCK** pop-up panel appears, you can use the and buttons or the remote control number buttons to enter the four-digit passcode that you used to lock the digital satellite receiver earlier. If you enter the code using the number buttons, you will not see the numbers appear on the screen.*

After entering the passcode, highlight and select OK. **Once the digital satellite receiver has been unlocked, all limits and restrictions are removed!** Otherwise, choose *Cancel* to keep the lock in effect.

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

Temporarily Overriding the Lock

The OVERRIDE LOCK pop-up panel on menus

There are times you may wish to temporarily remove the restrictions imposed by locking. You can do this without unlocking the digital satellite receiver. When you press , when prompted, the OVERRIDE LOCK pop-up will be displayed. It looks and navigates just like the SYSTEM UNLOCK pop-up.

Note: Once the correct four-digit code is entered, the digital satellite receiver will remain unlocked until you power the digital satellite receiver off. At that time all locks and limits will be enforced again.
Remember that when the digital satellite receiver is locked, only channels in the Family list can be viewed. This means that even though a channel

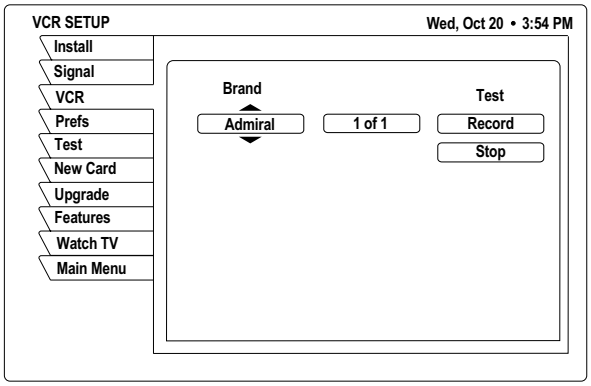
appears on the *Fav. A*, *B*, *C*, or *All Channels* list, the selected channel must also be on the *Family* list in order to see or hear it.

For the Family List limit to be in force, the digital satellite receiver must be locked. Locking is described earlier in this chapter. When the system is locked the passcode will be needed to modify the settings of the channel lists.

Setting up a VCR

VCR setup text

The **VCR SETUP** screen provides access to the settings that will allow the digital satellite receiver to communicate the record and stop commands to your VCR.



Brand

Search through the various brands of VCRs that are supported using the and buttons. Related brands that share the same control codes may be suggested. You may want to experiment with these if you are having difficulty finding a functioning code under your VCR's own brand name.

Code

More than one code may be assigned to your brand of VCR. Try each of the codes offered by using CHANNEL (CH) SELECT button to step through each code. Alternate between this procedure and testing the code.

Test (Record/Stop)

The testing function allows you to verify that the specified brand and code will control your VCR. To run the test, the VCR Control cable must be properly attached, a recordable tape must be in the VCR and the VCR powered on.

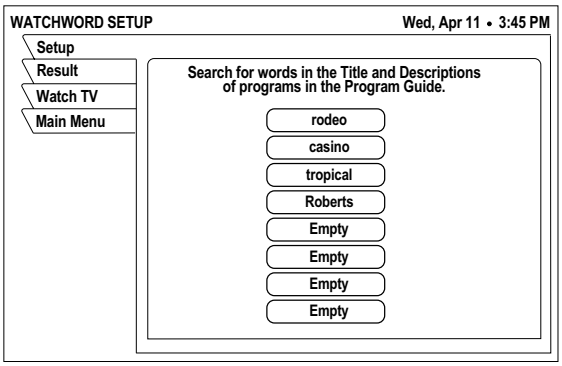
Use the front panel of the digital satellite receiver, rather than the remote control, when testing the codes. This is because signals coming from the remote control at the same time as signals coming from the VCR Control cable could give unreliable test results.

Be sure to test both the *Record* and the *Stop* commands, which are necessary for successful taping capability. If either *Record* or *Stop* fails to function, try other *Code*s associated with your VCR brand. If you are unsuccessful in the test

process after trying all available codes, recheck your VCR Control cable connections and IR emitter placement.

Using WatchWord

WatchWord allows to you search using specific words that appear in program titles or descriptions.



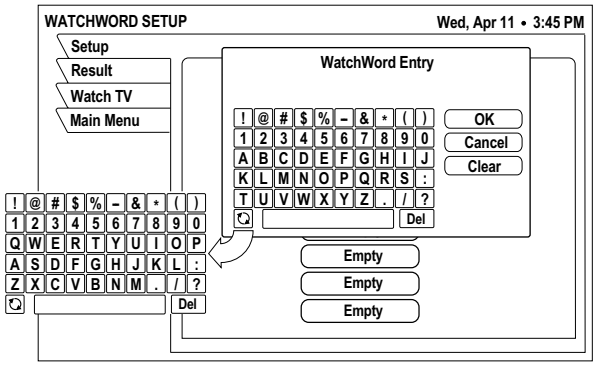
The WATCHWORD setup screen is used to specify up to eight different words that can be used to identify programming of interest to you. While the digital satellite receiver is in standby mode the program titles and descriptions in the guide will be searched. Programs which contain matching words, will be included in the WATCHWORD on-screen guide.

Note: *Note: For the WatchWord Guide to have the opportunity to find programs with matching words, your digital satellite receiver must be turned off for a period of time. It is recommended that you allow your system to look for your words while you sleep or when you are at work. It cannot search for words while it is turned on.* ***(Is this still a true statement??)***

Highlighting one of the eight choices and pressing will initiate a pop-up panel where you can define a search word. If “CAGNEY” and “ALIEN” were specified, the “CAGNEY” search word might find movies in which James Cagney performed in, as well as the TV series “Cagney and Lacey.” The

"ALIEN" search word might find the movie "Aliens" as well as any program which includes the word "alien" in the description. Partial words work as well.

Entering the desired words is easy using the pop-up buttonboard. You can



highlight the desired letter using the ⊕ buttons. Press SELECT to enter the letter. Once the word in entered, choose *OK*.

Using alternate services

The digital satellite receiver can support alternate audio services. To determine if the services are available for a particular program, look for their icons below the date and time in the Information Banner or on the on-screen guide. To access these services when available press the button on the remote control. The **A**lternate Services banner will appear at the bottom of the screen.

Audio

Once you have selected the Audio button you can use the CHANNEL button to step through the audio tracks offered for the current program.

To choose the highlighted language, press SELECT. On occasion an audio track may be offered that is not being broadcast. If this is the case, you will hear either unchanged audio or silence.

Changing channels restores the audio track to the one that is specified on the PREFERENCES screen. See the DIRECTV Digital Satellite Receiver's Menu System chapter to set the default audio.

Digital Audio

Once you have selected the Digital Audio, use the CHANNEL button to step through the audio tracks for the current program. For programs that are offered in Dolby Digital® the icon appears with the audio track title for Dolby Digital programming. The "Same as Audio" option is always available.

To choose the highlighted digital audio, press SELECT. Occasionally, an audio track may be offered that is not being broadcast. If this is the case for the selected track, you will hear either unchanged audio or silence.

Changing channels will restore the audio track to the one that is specified on the PREFERENCES screen. See the DIRECTV Digital Satellite Receiver's Menu System chapter for information on setting the default audio.

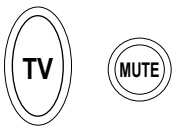
Programming the remote control - Draft A.03 4

This chapter explains how to program your remote control to work with the other components in you home entertainment center using the Maufacturer's device codes. ***Using the remote control*** on page XX also explains how to use the remote control to operate and additional satellite receiver, identfy stored codes, and use AUX to control other components in your system.

How program your remote control

This section describes two ways to program your remote control to work with your TV, VCR, a/v receiver, and other components in your home entertainment system. These methods are *code scanning* and *code entry.*

Code scanning may be more time-consuming, but you don't have to use the manufacturer's control codes in table XX to program your remote control. Using the code entry method may be quicker, but you will need to find the codes assigned to each of your components in the table.



1. Keep you remote control aimed at the component you want to use.
2. Hold down the appropriate device button (TV, for example) then press the **MUTE** button for a full second.
3. Release both buttons.
4. The device button (in this case, **TV**) will glow and remain lit. If the button does not illuminate, repeat steps 1–3.
5. Use either programming method described below.

Code scannning

Repeatedly tap the top part of the **CH** (Channel) button. Continue to step through the codes until the component turns off, indicating you have found the correct code for that component. If you inadvertently pass a code that responds, or realize that you might not hat been aiming the remote contol at the component, tap the lower part of the **CH** button to step backward through the codes. Press the remote control's **POWER** button to verify the proper code. Press the device button again to lock in the code.

Code Entry

Refer to Table XX on page XX. Find the three-digit code or codes for the type and brand of the component you want to control from table XX. If several codes are listed, try each to find the one that works best. Press the device button again to lock in a code. Press the remote control's **POWER** button to verify the proper code.

Television brands and remote control codes

TV	Code(s)	TV	Code(s)	TV	Code(s)
Admiral	072 081 160 161	Jensen	013	Realistic	007 019 043 047
A Mark	112 143	JVC	038 001 083 034	Runco	072 130
Akai	070 146	KEC	043	Sampo	070 004 058
Amstrad	052	Kenwood	070 001	Samsung	101 004 050 089 105 160 127 143 133
Anam	043 054 056 080 112 131	Kloss	002 059	Sanyo	007 020 053 057 082
AOC	070 004 058 112	KMC	043	Scott	004 028 043 048 143
Audiovox	076 120	KTV	043 143 154 070	Sharp	081 004 014 019 022 028 143 029
Blaupunkt	088	Kuehn	722	Siemens	088
Bruette	572	Lodgenet	072	Signature	072
Candle	070 002 003 004	Logik	072	Sony	001 085 126 166 079
Capehart	058	Lauxman	004	Soundesign	028 003 004 043
Cetronic	043	LXI	007 015 052 081 160	Spectricon	112
Citizen	070 002 003 004 043 101 103 143	Magnavox	003 004 022 059 060 061 063 0 64 070 094 127 160 164	SSS	004 043
Classic	043	Marantz	070 164	Supre Macy	002
Concerto	004	Matsui	164	Sylvania	070 003 059 060 063 064 127 160 164 044
Contec	043 050 051	Memorex	004 007 072	Sylvester	917
Coronado	143	Metz	088	Symphonics	194 052
Craig	043 054 191	MGA	024 070 004 024 028 042	Tandy	081
Crown	043 143	Minerva	088	Tatung	056 062
Curtis Mathes	070 101 143 004	Hughes	024 004 040 042 028 146	Technics	034 080
CXC	043	MTC	070 004 062 101	Techwood	004
Daewoo	076 103 004 016 043 114 120 127 143 128 136 192 044	NAD	015 025	Teknika	002 003 004 024 028 043 072 101 143
Daytron	004 143	NEC	070 040 016 056 024 130 134 019 004	Telerent	072
Dynasty	043	Nikei	043	Tera	173
Dynatech	062	Onking	043	Tmk	004
Electrohome	024 076 120 143	Onwa	043	Toshiba	015 030 007 040 062 101
Emerson	004 005 028 043 047 048 050 051 076 120 143 151 153 154 155 070 096 191	Optonica	019 081	Universal	008 009
Fisher	007 057	Panasonic	034 080 056 164	Video Concepts	146
Funal	028 043	Philco	164 070 003 059 060 064 004 056 063 024	Vidtech	004
Futuretech	043	Philips	164 093 038 005 059 127 070 003 004	Wards	004 019 064 008 009 028 060 061 063 072 074 143 164 165
GE	160 165 161 070 008 009 034 056 073 074 130 155 167 004 145	Pioneer	025 070 004 018 023 190	Westinghouse	076 120
Goldstar	004 106 110 112 119 127 143 193	Portland	004 143 065	Yamaha	004 070
Hall Mark	004	Proscan	160 161 167 145 065	York	004
Hitachi	011 004 009 010 012 023 075 143 007 072	Proton	004 058 131 143 171 173	Yupiteru	043
Infinity	164	Quasar	034 056 080 164	Realistic	007 019 043 047
JBL	164	Radio Shack	004 019 043 127 143	Zenith	072 073 095 103
JCPenney	070 004 008 009 024 030 065 101 160 143 156	RCA	160 161 156 165 065 070 004 023 024 056 074 152 167 145	Zonda	112

VCR Brands and remote control codes

VCR	Code	VCR	Code	VCR	Code
Aiwa	034	Magnavox	067 031 034 041 068 154 160 064	Sharp	031 054 053
Akai	016 043 046 124 125 142 146	Marantz	067 069 031 067 012 023	Soundesign	034
Ampro	072	Marta	101	Shintom	013
Anam	031	Matsui	027 030	Signature	031 059 034 067
Audio Dynamics	012 023 039 043	MEI	031	Sony	034
Brooksonic	035 037 044 129 152	Memorex	102 101 003 010 014 031 034 053 072 139 134	STS	010 034
Canon	028 031	MGA	045 046 059	Sylvania	039 043 023
Capehart	108	Minolta	013 156	Symphonic	034 039 043 023
Craig	003 040 135	Hughes	059 061 046 051 142 013 045 162	Tandy	031 070
Curtis Mathes	031 041 156	MTC	034 040	Tatung	031 019 034 101
Deawoo	117 119 005 116 007 010 065 108 110 112	Multitech	024 034	Teac	006
Daytron	108	NEC	012 023 043 048 039	Technics	112 008 131 047 059 082 013 042
Dimensia	156	Nordmende	043	Teknica	040 101
DBX	012 023 039 043	Optonica	053 054	TMK	040
Dynatech	034 053	Panasonic	070 133 031 066 161	Toshiba	012
Electrohome	059	Pentax	013 031 063 156	Totevision	012 046 034 141
Emerson	006 029 035 025 027 034 036 037 046 101 129 131 138 017 031 044 152 157 153	Philco	031 034 067	Unitech	040
Fisher	003 008 009 010	Philips	031 067 034 101 054 071	Vector Research	003 013 024 031 034 040 053 054 017 131
Funai	034	Pilot	101	VideoConcepts	012 043 034 039
GE	031 072 144 147 063 151 107 109 156 126	Pioneer	021 013 048	Videosonic	072 080 056 048 034 101 058
Go Video	040 132 136	Portland	108	Wards	034
Goldstar	101 123 012 013 114	Quartz	002 014	Yamaha	013
Harman Kardon	012 045	Quasar	070 133 161 031 066	Zenith	031 059 034 067
Hitachi	004 026 034 063 137 150 156	Radio Shack	123		
Instantreplay	031	RCA	107 109 144 147 151 013 041 034 040 156 031 140		
JCL	031	Realistic	003 008 010 014 031 034 040 053 054 101		
JCPenny	012 013 040 101 156 066	Rico	058 078		
Jensen	043	Salora	014		
JVC	048 050 043 130 060 012 031 150 055 158	Samsung	102 040 032 104 107 109 112 113 115 120 122 125 159		
Kenwood	014 034 047 048 023	Sansui	043 048 135 022		
Lloyd	034	Sanyo	003 010 102 007 014 134		
LXI	034 003 009 017	Scott	017 037 044 129 131 112 159		
Magin	040	Sears	003 008 009 010 013 014 017 081 101		

AUX brands and remote control codes

AUX	Code(s)	AUX	Code(s)	AUX	Code(s)
Audio Access	095	Jerrold	141	RCA	109 213 166
Adcom	146 149 227 244	JVC	112 198 252	Realistic	103 122 123 124 172 174 177 179 180 194
Amc	082 083 084	Kenwood	096 104 119 125 148 151 163 171 173 242	Rotel	204 218 239
Arcam	100	Krell	223	Sansui	196 214 126 139 075 197
Audio File	093 098	Lexicon	215 250	Sanyo	157 129
Audio Techinica	221	Luxman	066 071 120 134 205 206 229	Samsung	068
Aiwa	111 114 117 156 170 199 203 219 231 241 254	LXI	123 177	Scientific Atlanta	143
Akal	181 233	Magnavox	126 162 185 186 224 228	Scott	180 190
Anam	180	Marantz	074 091 105 126 128 139 155 162 164 186 232	Sharp	096 125 151 161 169 182 193
Bose	064 137 219	McIntosh	251	Sherwood	089 127
B & K	150 152	Mondial	069 070 077 225 226	Sony	097 117 147 183 200 253 237 238 188 192 080 063 243
Carver	013 091 098 107 126 129 160 163 164 220 245 249	MCS	108 178	Soundesign	135
Casio	076	Hughes	253	Soundstrea m	197
Clarion	151 169	Meridian	013 067	SSI	130
Denon	101 133 191 202 208 246 247	NAD	128	Starcom	141
Englightened Audio	078 153	Nakamichi	072 212 234 235	Symphonic	124
Fisher	107 129 157 163 176	Niles	236	3M	217
Fosgate Audionics	113 228 248	Onkyo	079 094 115 116 207 209 211 255	Teac	102 159 180 062
GE	216 123	Optimus	121 125 140 181	Technics	131 143 184 145 187 200 202 208 165
Goldstar	110	Panasonic	131 144 187 200	Toshiba	175
Harmon Kardon	073 195 248 249	Parasound	085 086 090	Wards	163
Haital	119	Philips	136 186 126 197	Yamaha	092 120 166 240 125 169 065 216
JCPenny	109 154 178	Pioneer	087 093 132 138 210 165 168 189 195 201 081 230	Zenith	222 061
Jesen	099	Quasar	131 187		

Federal Communications Commission (FCC) Regulatory Information

FCC Rules Compliance

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, the user is 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 digital satellite receiver.
- Connect the equipment into an outlet on a circuit different from that to which the digital satellite receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user 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 requirements, only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this device. Operation with non-certified 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

1. The FCC has established Part 68 of the FCC Rules, which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on coin lines or party lines.
2. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service.
3. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.
4. If the telephone company requests information on what equipment is connected to their lines, inform them of:
   - the telephone number towhich this unit is connected.
   - the ringer equivalence number (REN) from the label located on the bottom of the equipment.
   - a Universal Service Order Code (USOC) RJ11 jack is required for this equipment.
   - the FCC registration number from the label located on the bottom of this equipment.

Questions & Answers - Draft A.03 A

Questions? Did we forget to tell you something? Many people, over time, have questions about their satellite system. We have compiled the most common of these questions and the answers in this appendix. We hope they help!

QI had a signal but now I am getting a message "Searching for satellite signal. To access related utilities, press .." What happened?

ARain 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.

QWhy can't I control my TV?

ABefore you can control your TV, VCR, or any other device, besides your digital satellite receiver, you must program your remote control to match your different devices. See the chapter, "Programming Your Remote Control" in this manual for specific instructions. If you have already successfully programmed your remote control, try pressing the appropriate device key to put your remote in the proper mode. Then try controlling that device. Also, make sure that the batteries in the remote control are good.

QMy digital satellite receiver does not respond when I press keys. What's wrong?

AMost likely, if the front panel keys work but the remote control doesn't work, try pressing the "SAT" key before trying to control the digital satellite receiver. If that doesn't work, press the "SAT" and "Mute" keys together and try again. If that doesn't work, or if the front panel keys don't work either, unplug your digital satellite receiver for 30 seconds, then plug it back in. Since your digital satellite receiver is a computing device it is susceptible to erratic changes in power and/or signal, just as any other computer, and these sudden changes can cause it to become "confused."

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

AThe 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.

QHow can I watch one channel while recording another?

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

QI'm getting a message to call some extension. Why?

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

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

AThere 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-DIRECTV (347-3288), for assistance.

QCan I receive my local TV programs through my digital satellite receiver?

AThere 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 or rabbit ears) or "lifeline" cable TV.

Arrange for basic or "lifeline" cable service from your local cable company.

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

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

AFor issues regarding your equipment, contact Hughes Consumer Care Center directly at 1-800-274-8995. If you would like, call your dealer first. They are most familiar with your installation and needs. Also, they are likely to be local to you.

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

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

AThere 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.

QIWhy do I need to connect the satellite reciever to a telephone line?

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

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

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

QWhat if my question isn't listed here?

ACall your dealer or Hughes Consumer Care Center at 1-800-274-8995. We will do our very best to answer your questions.

LIMITED WARRANTY

Hughes Network Systems (HNS) provides the following limited warranty on this equipment.

This limited warranty is in lieu of all other warranties, whether express, implied, or statutory, including, without limitation, the implied warranties of merchantability and fitness for a particular purpose. HNS shall not be liable for damages in excess of the purchase price of the product less reasonable amount for use and wear, or for any incidental, special, punitive, or consequential damages of any nature whatsoever, or for any delays, loss of use, time, profits, revenue or savings, any commercial loss, inconvenience, damage to buyer's or to other person's property, arising from the use or inability to use the product, or otherwise for any failure to perform. HNS neither assumes nor authorizes any customer care center or any other person or entity to assume any other obligation or liability beyond that which is provided for in this limited warranty. No oral or written information or advice given by HNS, its dealers, distributors, agents or employees, shall create a warranty or in any way increase the scope of this warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations of implied warranties, so the above limitations or exclusions may not apply to Purchaser.

This Limited Warranty gives specific legal rights to Purchaser, and Purchaser also may have other rights which may vary from state to state.

PROVISIONS

Your Hughes manufactured DIRECTV Digital Satellite Receiver, Satellite Dish Antenna, and Remote Control are warranted against defects in materials, workmanship for parts and labor:

- The digital satellite receiver is warranted for two (2) years from date of purchase.
- The satellite dish antenna (including the LNB) is warranted for one (1) years from date of purchase.
- The remote control is warranted for ninety (90) days from date of purchase.

This limited warranty does not cover:

- a unit that has been modified
- damage from misuse, negligence, or accident
- any installation, or damages caused by installation
- shipments to HNS that are damaged in transit
- removal and reinstallation of equipment for repair
- loss of programming
- damage due to lightning (for example, power surges, nearby strikes)
- acts of God
- cost of shipping to HNS
- batteries or cables after installation

This limited warranty is not transferable and is valid only in the United States

SERVICE

If you have any questions or encounter any problems, you may contact your authorized HNS dealer or call our Customer Care Center, at 1-800-274-8995. To ensure prompt and efficient service, please have your model and serial numbers handy. Space to note these numbers is provided inside the front cover of this manual. In the event of repair or replacement, you will need these numbers, along with your bill of sale.

RETURN PROCEDURES

In the event that your equipment must be repaired or replaced, you can:

- contact your authorized HNS dealer or call our Customer Care Center to find the authorized service center nearest you.

OR

- choose the “replace after receipt” option, whereby you must ship HNS your defective equipment and, once your unit is received, a new or refurbished unit (at the sole discretion of HNS) will be shipped to you.

OR

- choose the “advance replacement” option, whereby a new or refurbished unit (at the sole discretion of HNS) will be shipped to you after you have provided an accepted credit card number for collateral purposes. Once you receive the replacement part from HNS, return your defective equipment within the specified time period to avoid being charged for the advanced part.

If the warranty on the equipment has expired, the Customer Care technician will provide you with an estimate of the cost to replace the unit when the RMA is assigned.

PACKING INSTRUCTIONS FOR EQUIPMENT TO BE RETURNED

1. Call the Customer Care Center. The Customer Care technician will give you an RMA (Return Merchandise Authorization) and a mailing address for returning your unit.
2. If you are returning the digital satellite receiver, *please keep your access card and return only the digital satellite receiver.*
3. Pack the unit in the original box and packing material, if possible, or in other packaging that provides adequate protection for shipping. Include your name and address, the model number, the serial number, and a copy of the bill of sale.
4. Write: "Attention: RMA #" (the number given to you by the Customer Care technician) on the return shipping label.
5. Insure the shipment for the full replacement value.

If the warranty on the equipment has expired, the Customer Care technician will provide you with an estimate of the cost to replace the unit when the RMA is assigned.

Installing the satellite antenna-A.03 B

INSERT SATELLITE DISH ANTENNA CONSUMER INSTALLATION PROCEDURES AND RELATED SOFTWARE MENUS HERE.

THIS APPENDIX WILL BE DELETED IF CONSUMER ANTENNA INSTALLATION PROCEDURES ARE NOT INCLUDED IN THIS MANUAL.

INSTALLATION

Polarization– This satellite 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 satellite 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– Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and at the point where they exit from the product.

Overloading– Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause a fire or expose you to possible electric shock.

Ventilation– Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. Never block the openings by placing the product on a bed, sofa, rug, or other similar surface. Do not place this product in a built-in installation such as a bookcase or rack unless it is properly ventilated, or you have followed the manufacturer's instructions.

For electrical safety, power line operated equipment or accessories connected to this unit should bear the UL listing mark 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.

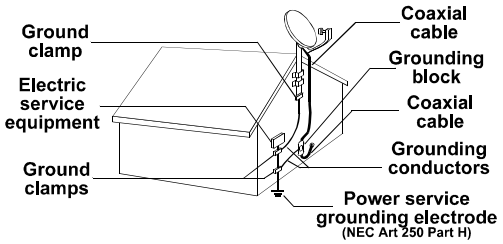
Heat– The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Accessories– To avoid personal injury or damage to the satellite receiver, do not place the satellite 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 Hughes 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 observer 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.

Antenna grounding example from the National Electrical Code instructions contained in "Radio and Television Equipment"



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 satellite receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. This satellite 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.

Note to CATV System Installer– This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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 satellite 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 satellite 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 satellite receiver.

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

SERVICE

Servicing– Do not attempt to service this satellite 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 this satellite receiver from the wall outlet and refer servicing to qualified personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled on, or objects have fallen into, the satellite receiver or it has been exposed to water.
- If the satellite 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 satellite receiver to its normal operation.
- If the satellite receiver has been dropped or the cabinet has been damaged.
- When the satellite 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 satellite receiver, ask the service technician to perform safety checks recommended by the manufacturer to determine that the digital satellite receiver is in safe operating condition.

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