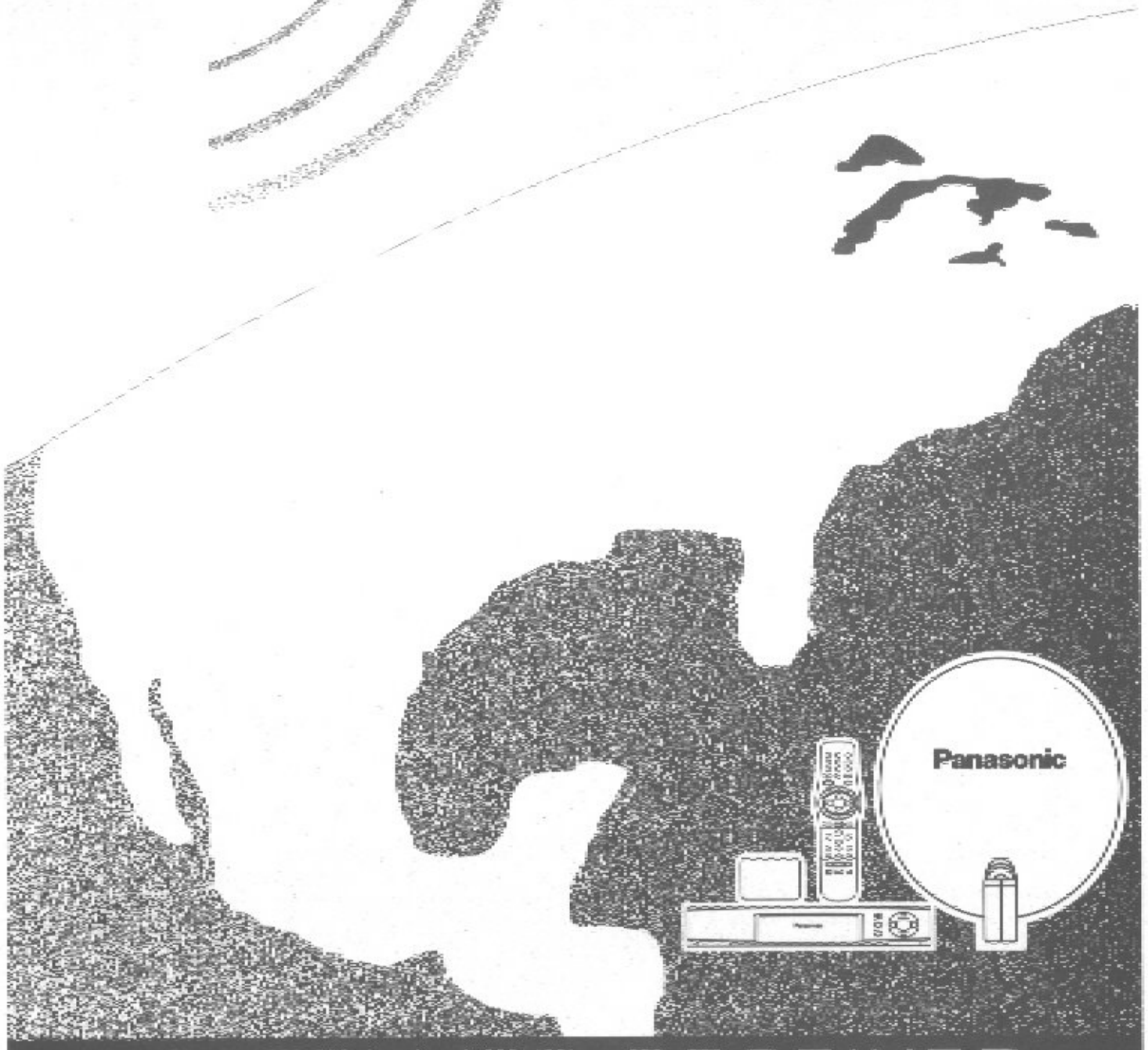
Panasonic

TU-IRD20
OPERATING INSTRUCTIONS

Read these instructions completely before operating this set.

Contents subject to change without notice or obligation



SATELLITE RECEIVER

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Printed in U.S.A.
TQB2BA1903B

SAFETY INFORMATION

WARNING

To reduce risk of fire or shock hazard, do not expose this receiver to rain or moisture.

WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Cautions

Do not stack electronic components or other objects on top of the DSS Receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Note to Cable TV Installer:

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) 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.

Note to Satellite Dish Installer:

This reminder is provided to call your attention to Article 810 and in particular article 810-15 of the National Electrical Code which covers proper installation and grounding of television receiving equipment as well as to article 820-40 of the National Electrical Code which specifies that the satellite dish cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

IMPORTANT NOTICE:

This device incorporates an anticopy process technology that is protected by U.S. patents and other intellectual property rights. The anticopy process is licensed for non-commerical, home use only. Reverse engineering or disassembly is prohibited.

DSS® is a registered trademark of DIRECTV, Inc., a unit of GM Hughes Electronics

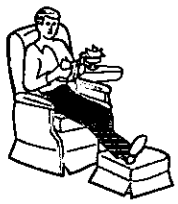
StarSight-Licensed: The manufacture and sale of the television schedule feature of this product was licensed under one or more of the following patents of StarSight Telecast, Inc.; U.S. Patent Nos. 4,706,121; 4977,455; 5,151,789; and 5,353,121.

IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your product, safety is a major factor in the design of every product. However, safety is your responsibility too.

This sheet lists important information that will help to assure your enjoyment and proper use of the product and accessory equipment. Please read them carefully before operating and using your product.

Installation

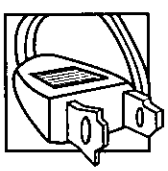


1 **Read and Follow Instructions**—All the safety and operating instructions should be read before the product is operated. Follow all operating instructions.

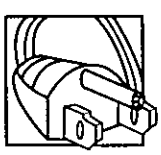
2 **Retain Instructions**—The safety and operating instructions should be retained for future reference.

3 **Heed Warnings**—Comply with all warnings on the product and in the operating instructions.

4 **Polarization/Grounding**—This product is equipped with either a polarized, non-polarized, or a grounding type power cord plug. If equipped with the non-polarized type (two blades of identical size), the following does not apply.



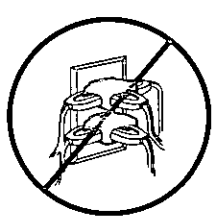
• A polarized power plug (two blades, one wider than the other) will fit into a power receptacle only one way. This is a safety feature. Do not defeat it. If you are unable to insert the plug fully, try reversing it, or have an electrician change the receptacle. If you need an extension cord, use only a polarized extension cord.



• A grounding type power plug (two blades and a round pin) will fit only into a grounding type receptacle with matching openings. This is safety feature. Do not defeat it. You may need an electrician to install a grounding type receptacle. If you need an extension cord, use only a grounding type extension cord.

5 **Power Sources**—This product should be operated only from the type of power source indicated on the product's marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

6 **Overloading**—Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.



7 **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 where they are attached to plugs, convenience receptacles and at the point where they exit from the product.

8 **Ventilation**—Slots and openings in the enclosure are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. These openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or another heat source (including amplifiers). This product should not be placed in a built-in installation such as a bookcase or equipment rack unless proper ventilation is provided or the product manufacturer's instructions have been followed.

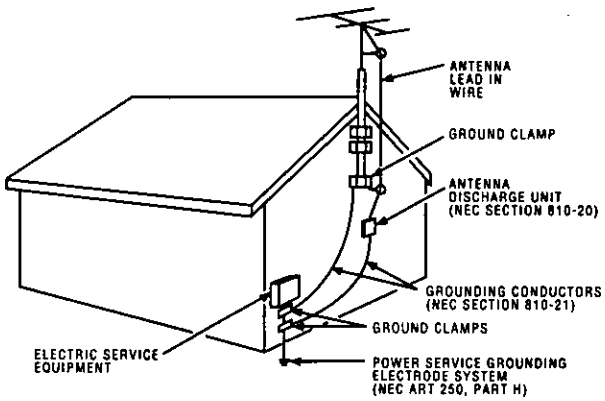
9 **Attachments**—Do not use attachments unless recommended by the product manufacturer as they may cause hazards.

10 **Water and Moisture**—Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

11 **Accessories**—Do not place this product on an unstable surface or support. The product may fall, causing serious injury to a child or adult as well as serious damage to the product. Any mounting of the product should follow the manufacturer's instructions and use only a mounting accessory recommended by the manufacturer.

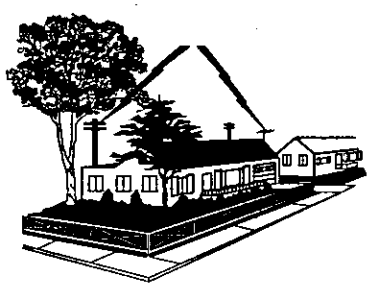
11A A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

12 Outdoor Antenna Grounding—If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) 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 grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See example below.



Example of Antenna Grounding

13 Power Lines—An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.



Use

14 Cleaning—Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

15 Object and Liquid Entry—Never push objects of any kind into this product through openings as they may touch dangerous voltage or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

16 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 and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.

Service

17 Servicing—Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

18 Conditions Requiring Service—Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.

A. When the power-supply cord or plug is damaged.

B. If liquid has been spilled, or objects have fallen into the product.

C. If the product has been exposed to rain or water.

D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

E. If the product has been dropped or the cabinet has been damaged.

F. When the product exhibits a distinct change in performance, such as the inability to perform basic functions—this indicates a need for service.

19 Replacement Parts—When replacement parts are required, have the service technician verify that the replacement parts he uses have the same safety characteristics as the original parts. Use of replacements specified by the product manufacturer can prevent fire, electric shock, or other hazards.

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

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BEFORE YOU BEGIN

What is the DSS® System?

You've purchased the DSS® Digital Satellite System, so you already know a lot of the great things it offers. You know that the DSS® system uses the latest satellite technology to deliver television programming to your home. And you know that the transmissions are digital, so the quality of the picture and audio rivals that of laser discs and CDs. You know the dish is small—18 inches wide—and that it often can be installed in a matter of hours. (See the DSS® System Installer Guide for specific information.)

Those are the some of the things you probably know about the DSS® system. But what about the things you don't know? For instance...

- **The DSS® system works like your TV.** Pick up the remote and push the DSS button. Press the Channel Up/Down buttons to scan through the channels. Press the number keys to go directly to a channel.
- There is an **on-screen Program Guide.** The Program Guide is like a TV listing in the newspaper. It is designed to help you select regular programs and pay-per-view events. You can also sort the Guide to list only specific types of programs. You can select Sports, for example, and your guide will show current and upcoming sports programs only.
- There is the **on-screen Menu System** that allows you to customize your system. You can set up your system, build channel lists, preview coming attractions, set spending limits, and receive mail from your program providers.
- There are three types of **On-line Help** to assist you in learning how to use the DSS® system: Auto Help, Help buttons, and the About DSS menu.

Ordering DSS® Programming

After you have installed your system, you should contact the service providers, DIRECTV and USSB to receive DSS® programming.

Programming with DIRECTV: Call 1-800-347-3288

Programming with USSB: Call 1-800-204-USSB

When you order programming, you need to know your Access Card number. To get the number, select Options from the Main menu, and then select System Test. Wait for the system to run all of it's tests. The Access Card number is displayed at the end of the system test.

Write the Access Card number in the space below for easy reference:

_____

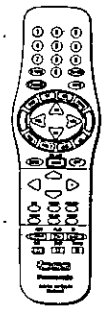
BEFORE YOU BEGIN

Unpacking the Box

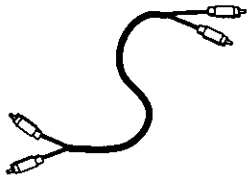
The following items come with your DSS® receiver:

- Receiver (access card inserted)
- Remote Control
- Coaxial (RF) Cable
- Telephone Line Cord
- S-Video Cable
- VCR Controller
- Audio/Video Cables

Receiver



Remote Control



Audio/Video Cables

Coaxial (RF) Cable

S-Video Cable

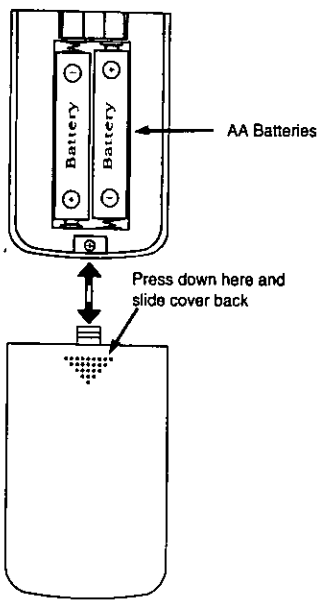
Telephone Line Cord

VCR Controller

Installing Batteries In the Remote Control

Follow these steps whenever you need to install or change the batteries in the remote control.

1. Remove the cover of the battery compartment.
2. Place batteries as shown, matching the + and - end of each battery in each compartment. **Use alkaline batteries only.**
3. Replace the cover.



Precautions on Battery Use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control.

Observe the Following Precautions

- Batteries must be replaced as a pair.
- Do not combine a used battery with a new one.
- Do not mix battery types (for example, "zink carbon" with "alkaline").
- Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- Battery replacement is necessary when the remote control reacts sporadically or stops operating the receiver.

BEFORE YOU BEGIN

Using This Manual

There are a couple of conventions used in this manual that might help you read it.

- Words that appear in ALL CAPS indicate the name of a button.
- The names of on-screen menu option are shown in *italics.*

Important Note about this User's Manual

This manual assumes that your DSS® system has been installed, meaning:

1. The satellite dish has been installed, correctly pointed at the satellite, and connected to your satellite receiver.
2. The satellite receiver is connected to your television and to a telephone line.
3. The access card is installed in your satellite receiver.

   Your access card has been matched to your receiver, and should already be installed when you take the receiver out of the packing box. The access card should only be taken out of the receiver when you are issued a new card by your programming providers.
4. The DSS® remote control has batteries.

If your system has not been installed, refer to the satellite dish Installer's Guide for information regarding proper installation. Then, refer to the section, "Connections," in this manual. See your dealer for specific information regarding professional installation or the purchase of a Self-Installer's Kit.

The On-Screen Navigation Method

Point and Select is the method you use for navigating through the menu system and program guides. Once you know how to Point and Select, you can explore the menus to learn more about how your DSS® system works.

1. Point

You point by pressing the arrow keys on the remote or front panel. Pressing the arrow keys moves the on-screen highlight to different items in the Program Guides and the menu screens. Pressing an arrow once moves the highlight one space in the direction of the arrow.

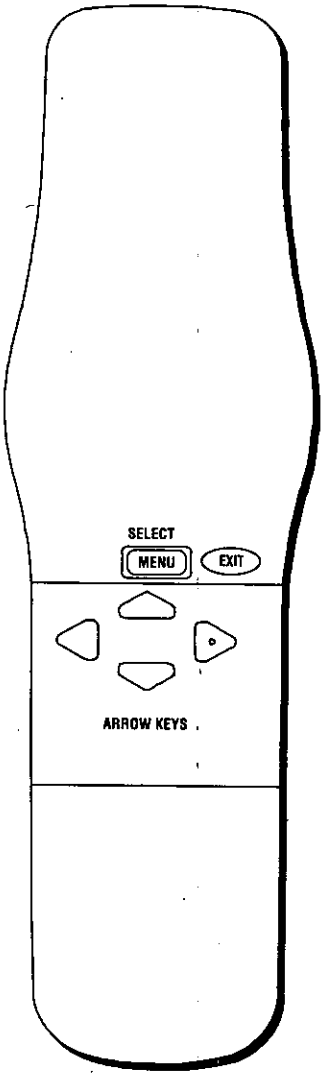
For example, to point down (that is, to move the highlight toward the bottom of the screen), press the down arrow. To point right, press the right arrow.

2. Select

Once you have pointed to an item on the screen, select it by pressing the MENU/SELECT button on the remote or front panel. Selecting an item tells the menu system to make the change you have indicated.

For example, the instructions in the User's Manual might tell you to "Point to the *Help* button and press MENU/SELECT."

Once you understand the Point and Select method, you can use any part of the DSS® system, beginning with the Program Guides.



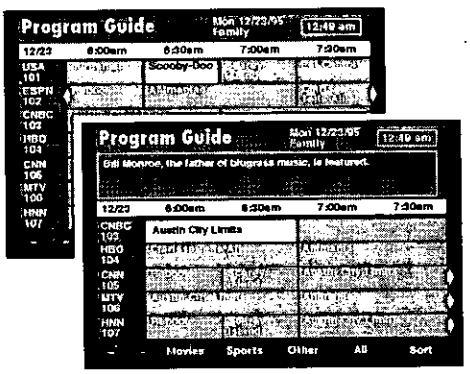
Exiting A Screen

Pressing the EXIT button on the remote takes you out of the menu system and back to the program you were watching.

PROGRAM GUIDES

What is a Program Guide?

A program guide is an on-screen programming schedule. There are several types of guides, each presenting the schedule in a different format.



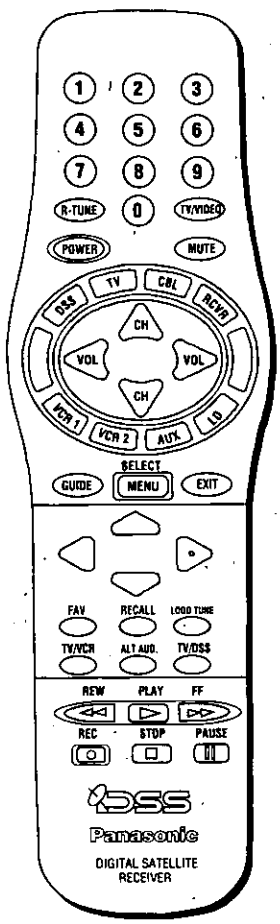
Bringing Up the Program Guides by Using the GUIDE Button

You can access the program guides by using the GUIDE button on the remote, or by selecting *Program Guide* from the Main menu.

Each press of the GUIDE button takes you to an alternate type of program guide:

- Press GUIDE once to see the seven-channel Grid Guide.
- Press GUIDE again to see the five-channel Info Guide which contains program information.

To switch the order in which the Grid Guide and the Info Guide appear, select *Preferences* from the *Assistance* menu, and then use the arrow keys to set the *Guide Format* option.



Using the Program Guides

This section tells you how to navigate in the program guides.

Changing Channels with the number keys (0-9)

You can point quickly to any channel in the Program Guide by entering the channel number with the number keys (0-9). For example, to point to channel 128, press the numbers 1-2-8 on the remote. To point to Channel 102, press 1-0-2.

Scrolling Channel By Channel

The programs that you see on the TV screen make up one section—or page—of the total Program Guide. You can scroll to other sections using the arrows:

- Point to other times with the left and right arrows.
- Point to other channels with the up and down arrows.

Scrolling Page By Page

If you want to scroll up or down through the Program Guide more quickly, press the Channel Up/Down buttons on the remote control. The highlight scrolls a page at a time. This is called "paging."

Tuning to a Program

- To tune to a program listed in the guide, point to the program and press MENU/SELECT.
- To see information about a program in the guide, press RECALL. Then, you can select *View Channel* to tune to that channel.

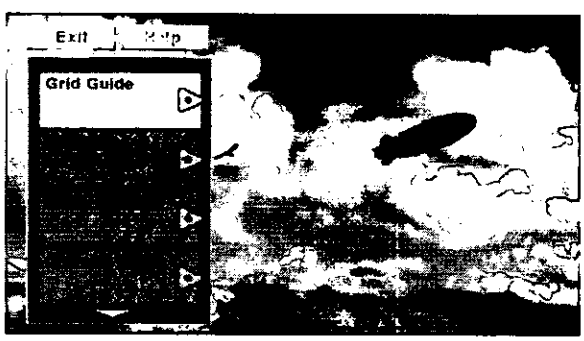
If you select a future program, you are given program details. If you choose a pay-per-view event, a second screen allows you to buy the program, find out more information, or return to the Guide.

Selecting A Program Guide from the Main Menu

When you access the program guides through the Main menu, you have more available options:

1. Press MENU/SELECT to bring up the Main menu.
2. Point to *Program Guide* and press MENU/SELECT.

   The Program Guides menu screen appears.



This is the Program Guides menu. Use the arrow to scroll down to see the Attractions Guide option.

If you select a future program, you are given program details. If you choose a pay-per-view event, a second screen allows you to purchase the program, find out more information, or return to the Guide.

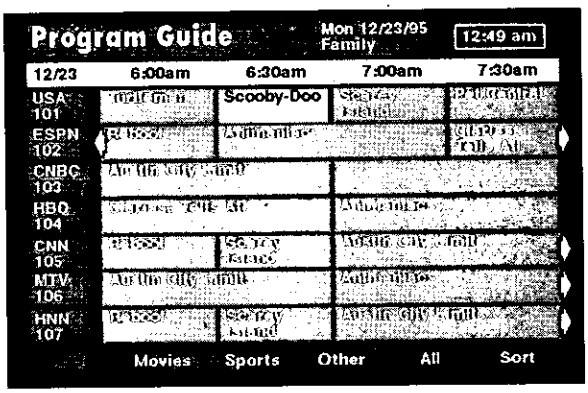
PROGRAM GUIDES

Types of Program Guides

There are five types of program guides: the Grid Guide, the Info Guide, the Topic Guide, the Channel Guide, and the Attractions Guide.

The Grid Guide

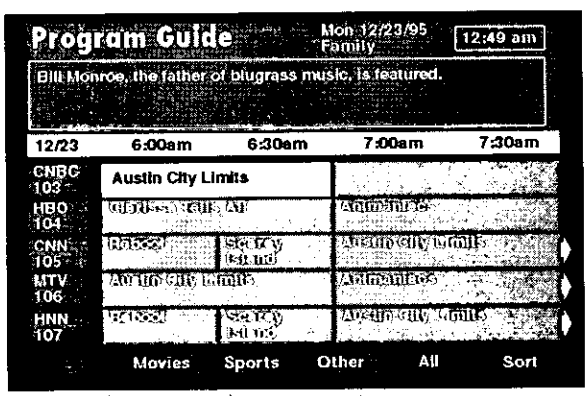
Shows the schedule in a time-and-channel format, similar to a TV schedule listed in a newspaper.



The seven-channel Grid Guide.

The Info Guide

Shows you five channels and includes a brief description of the selected program.



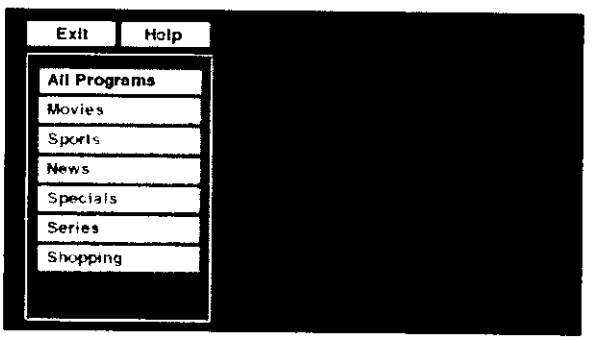
The five-channel Info Guide gives you a brief program description.

By default, the Grid Guide appears when you press the GUIDE button on the remote. Go to the Preferences menu (located within the Assistance Menu) to change the default guide from the Grid Guide to the Info Guide.

PROGRAM GUIDES

The Topic Guide

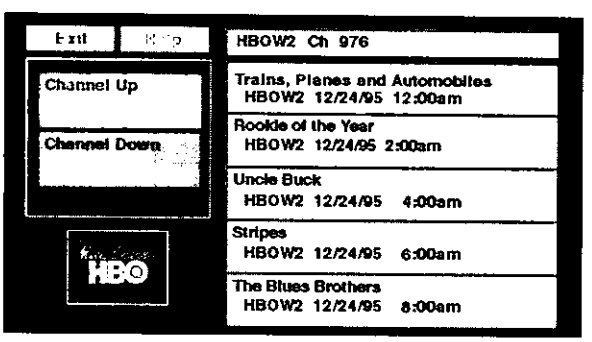
Lets you sort the programming schedule to show certain topics, such as "movies" or "sports."



The Topic guide.

The Channel Guide

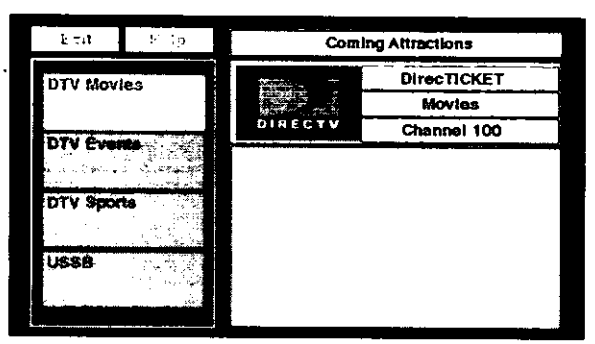
Displays the programming schedule for the selected channel.



The Channel guide.

The Attractions Guide

Displays coming attractions and special events information.

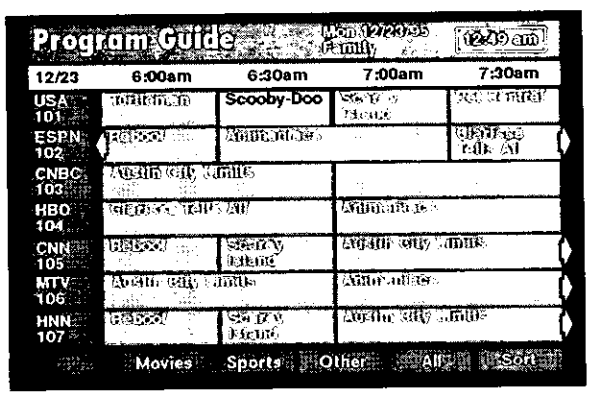


The Attractions guide.

See the section on purchasing pay-per-view programs for more information on the Attractions guide.

Sorting the Grid and Info Guides

There are six on-screen choices—called "buttons"— at the bottom of the Grid Guide and the Info Guide: down arrow, Movies, Sports, Other, All, and Sort.



The Sorting buttons are at the bottom of the screen.

The arrow button allows you to scroll down through other channels in the guide. Point to the down arrow, and then press MENU/SELECT to scroll down through the program guide.

Using the Sorting Buttons

The remaining buttons at the bottom of the guide are called "sorting buttons." These buttons allow you to simplify the guide to show specific types of information such as movies, or sports.

Movies

The Movies button lists movies only.

After selecting Movies, point to the *Theme* button that appears and press MENU/SELECT to sort the guide to list specific types of movies, such as comedies or thrillers.

Sports

The Sports button lists sporting events only.

After selecting Sports, point to the *Theme* button that appears and press MENU/SELECT to sort the guide to highlight specific types of sports, such as basketball or soccer.

TIP

You don't have to use the one-screen Down Arrow button to scroll through the Program Guide. You can use the Arrow Buttons on the Remote.

Other

Allows you choose from a list of sorting topics.

Once you have selected a sorting topic from the list, your guide will be simplified to show only that type of program.

After selecting a topic, a *Themes* button may appear in the place of the *Other* button.

All

Resets the guide to show all available channels and listings.

Sort

Takes you to the guide filter screen.

Using the Themes Button

After you select one of the sorting buttons, the name of that button changes into the *Themes* button. Use the *Themes* button to further sort the Grid or Info Guide to show subtopics ("themes"). For example, you could simplify the guide to show "baseball" under the Sports sorting button, or "comedies" under Movies.

Exiting A Program Guide

There are two ways to exit a Program Guide:

- Point to a channel and press MENU/SELECT.
- Press EXIT on the remote.

Program Guide disappears and you are returned to regular program viewing. If you have selected a pay-per-view program, a display screen allows you to purchase the selected program.

THE MENU SYSTEM

What is a Menu?

The DSS® menu is a list of choices, just like a menu in a restaurant. And, just as a restaurant menu is divided into sections such as appetizers, entrees, and desserts, the on-screen menus are also separated into sections to help you find the information you need.

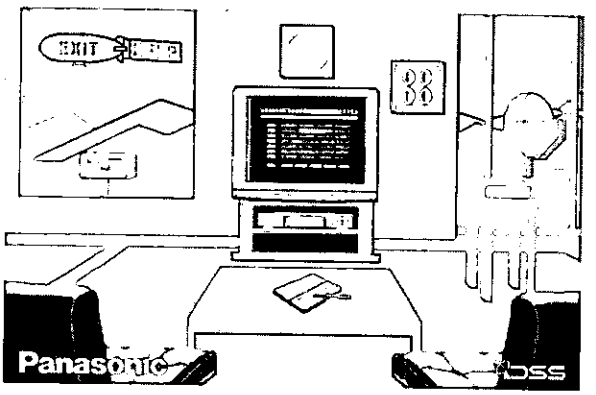
Your On-Screen Living Room

The first menu in this DSS® system looks like a living room. You might consider this your "home base" for customizing your DSS® system because you use the Living Room Main Menu to get to other parts of the system, such as the User Profiles menu or the Assistance menu.

Use the MENU/SELECT button to bring up the Living Room main menu, and then use Point and Select to choose a menu option.

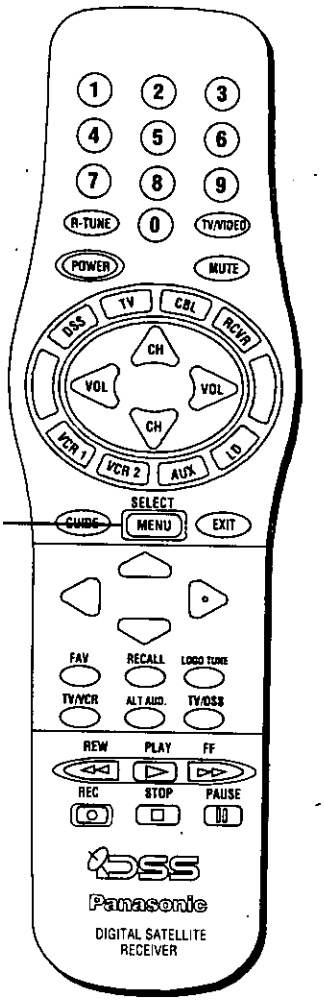
Using the Menu System

To bring up the Main Menu, press MENU/SELECT on the remote.



The Living Room Main Menu.

To use the menu system, you need to know the Point and Select rule. Use the arrows on the remote to point to an item on the screen, and then press MENU/SELECT to select it.



Exit and Help

There are Exit and Help buttons at the top of most screens. Point to *Exit* and press MENU/SELECT to leave that screen. Point to *Help* and press MENU/SELECT to see more information about that screen.

Exiting a Screen

There are two ways to exit a menu:

- Point to *Exit* and press MENU/SELECT.
- Press the EXIT button on the remote control. The on-screen displays clear from the screen and you return to satellite TV viewing.

Using Help

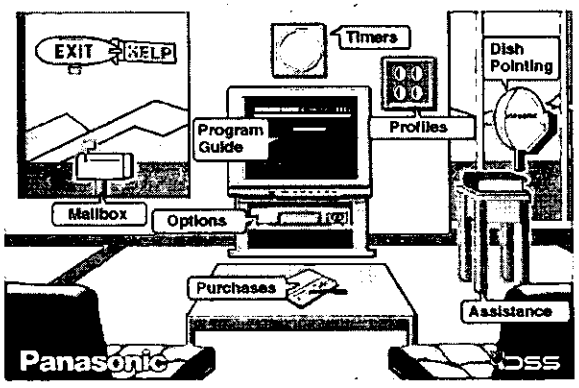
All menus have a Help button. For example, selecting the Help button from the Main Menu brings up all of the help balloons for the Living Room.

1. Press MENU/SELECT to bring up the Living Room Main Menu.
2. Point to the *Help* button and press MENU/SELECT.

Main Menu Won't Appear?

If the Main Menu doesn't appear when you press MENU/SELECT, the remote might not be in DSS® mode. Try pressing the DSS button on the remote, and then MENU/SELECT.

THE MENU SYSTEM



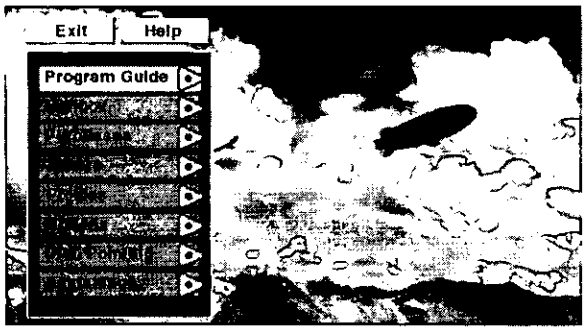
The Help balloons show all of the menu choices in the Living Room Main Menu.

3. Press MENU/SELECT again. The help balloons disappear.

The rest of the Help buttons in the menu system bring up helpful information explaining one aspect of that menu.

Changing the Main Menu's Appearance

You have the option of using the Living Room Main Menu, or a Control Panel Main Menu.



The Control Panel Main Menu.

Use the *Assistance* menu to change the look of the Main Menu:

1. Point to *Assistance* and press MENU/SELECT.
2. Point to *Preferences* and press MENU/SELECT.
3. Use the arrow keys to change the Main Menu to a Control Panel.

Don't Forget about the EXIT Button

Press the EXIT button on the remote to remove the on-screen menus and return to satellite TV viewing.

THE MENU SYSTEM

Menu Descriptions

This section briefly describes each of the available Main menu options. Detailed information about each menu is included in the sections of the manual which describe each menu.

Program Guide
Shows the on-screen programming schedules.

Mailbox
Use to read mail messages sent by your program provider(s).

Purchases
Use to review or cancel upcoming purchases, and to review past purchases.

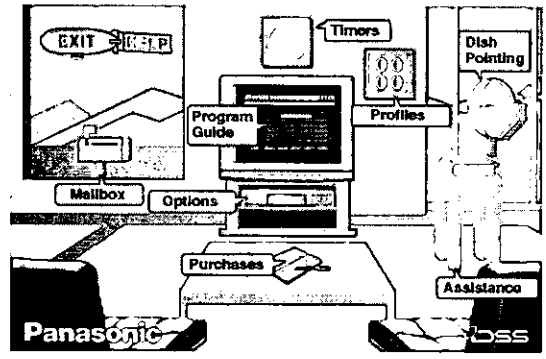
Timers
Allows you to schedule the satellite system to tune to a specific channel at a specific time, and to record that channel. (See "Recording with Timer.")

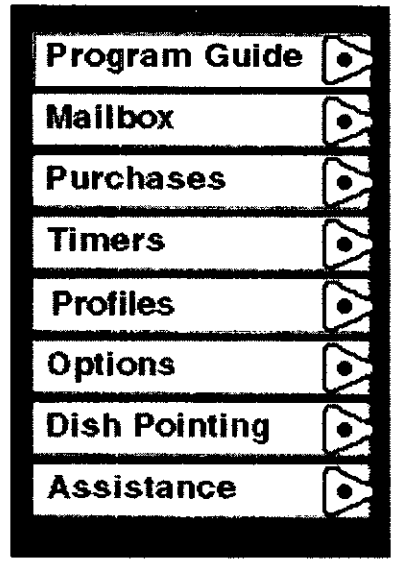
Profiles
Allows you to set rating and spending limits, and to create favorite channel lists.

Options
Allows you to run the system test or to install a new access card.

Dish Pointing
Use to find your dish pointing coordinates, and to access the on-screen signal strength meter.

Assistance
Shows you information about using the system and setting the system to your personal preferences.





Explore, Explore, Explore!

Once you've learned the basics, feel free to poke around the menu system because exploring is the best way to learn. The context-sensitive help at the bottom of the screen provides instructions for getting through any particular menu or control panel. Remember, press EXIT at any time to leave the menu system and return to regular satellite TV viewing.

Context-Sensitive Help

Most of the screens contain information to help you decide what to do next. If you get stuck, look for the help text.

Controlling The System

The Profiles feature lets four members of your household customize their DSS® viewing by setting up channel lists and ratings limits which can be password protected.

Especially for Parents

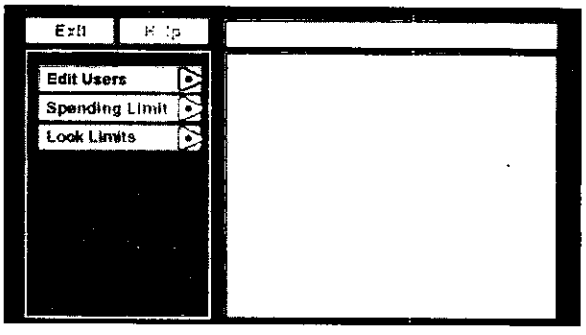
The Profiles feature contains a "Family" profile that is automatically activated each time the DSS® system is turned on. Setting up the family profile to reflect what you think is the appropriate viewing level for the youngest member of your family can help you to control what they watch.

Also, a password-protected master control lets you lock the system so that no one can change any of the ratings limits, spending limits, or channel lists without first entering a four-digit password.

Profiles puts you in charge of the viewing habits of your family.

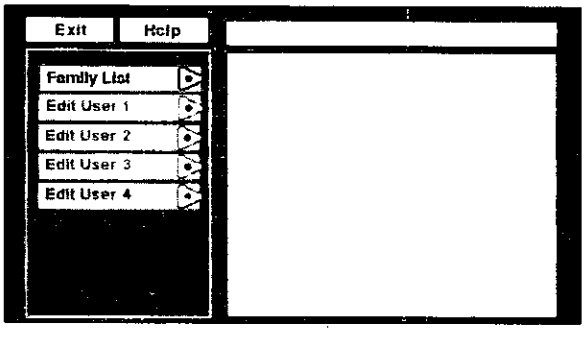
Creating and Editing a Profile

1. Select *Profiles* from the Main Menu to get to the system control screen.



The System Control screen.

2. Point to *Edit Users* from the system control screen and press MENU/•SELECT.



Select a User Name to edit..

3. Point to a user or "Family List" and press MENU/SELECT.

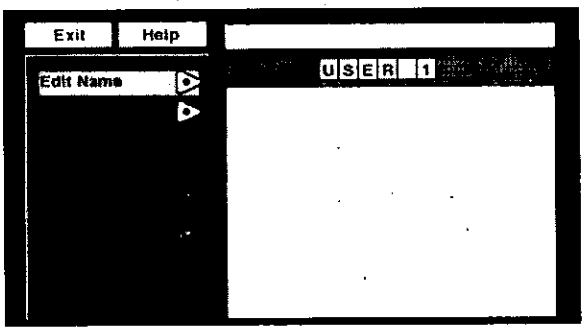
After you choose a user, you can do the following:

- Edit the User's name (except for Family List).
- Edit the user's channel list.
- Adjust the user's ratings limit.
- Set the user's password (except for Family List).

The Family profile does not have its own password option because each time you turn on the DSS® receiver, the system defaults to the Family profile.

Editing a User's Name

1. Point to *Edit Name* and press MENU/SELECT.



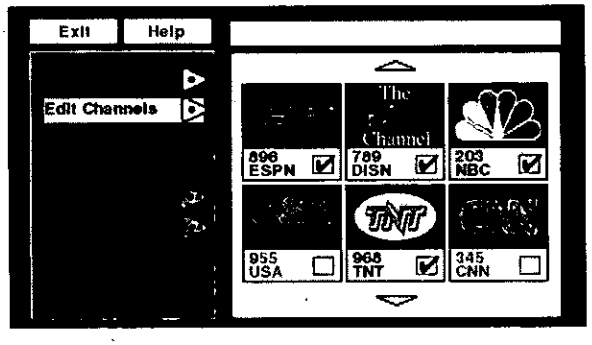
Use the arrows to edit a User's name.

2. Use the arrow keys to enter a new User name. Press MENU/SELECT when the name has been entered.

Editing the Channel List

The first time that you enter this menu, all of the channels are selected (check marked). To create a customized channel list, you need to scroll through the list and deselect those channels that you do not want to appear in the Program Guide.

1. Point to *Edit Channels* and press MENU/SELECT.



Edit the User's channel list.

2. Use the arrow keys to point to a channel, and press MENU/SELECT to remove (or replace) the check mark.

Add or Delete All Channels

You might be able to save time when creating a channel list by using the *Add All Chans* option or the *Delete All* option to either add all channels or delete all channels before removing or adding individual channels.

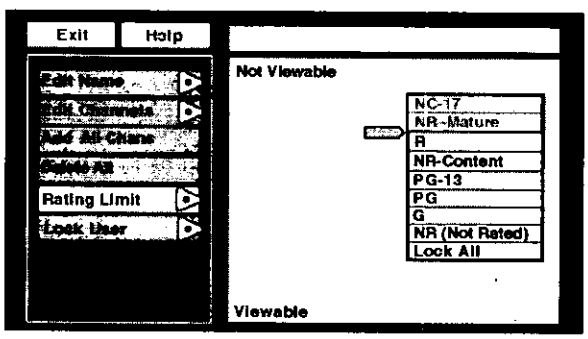
PROFILES

Setting the Rating Limit

The Rating Limit menu enables you to set a maximum viewing limit for rated movies (based on the MPAA ratings system), as long as the program provider has transmitted the proper code.

- Note that the ratings limit cannot be enforced if a program has not been rated, if rating information for that program is not transmitted by the program provider, or if the system has not been locked.

1. Point to *Rating Limit* and press MENU/SELECT.



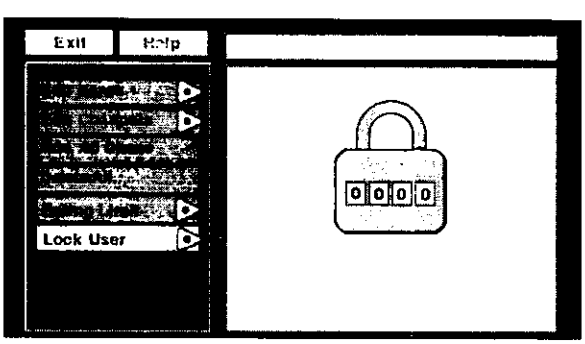
Use the arrow keys to move the selector up and down.

2. Use the up and down arrows to move the rating selector to the highest rating you want the user to be allowed to view.

Locking a User's Profile

Each user can be assigned a personal password to lock their profile. When a password is assigned, the user must enter it before he or she can view programs using that profile.

1. Point to *Lock User* and press MENU/SELECT.



Setting a User's personal password.

2. Use the arrow or digit keys to select each number of the password.

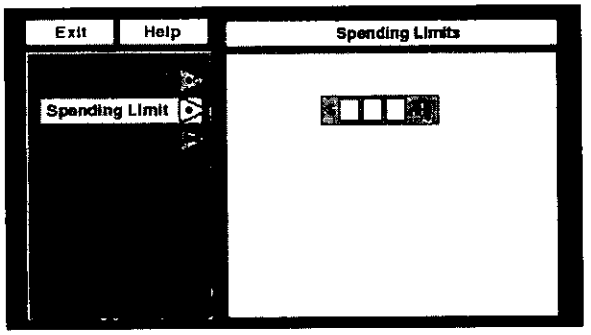
You need to lock the system in order for rating limits and channel lists to go into effect. See "Locking the System" for details

Controlling the System

Use the System Control screen to set up a system-wide, per-event spending limit, and to lock the system in order to put into effect the channel lists and rating limits you set up in your user profiles.

Setting Up Spending Limits

1. Point to *Spending Limit*, and press MENU/SELECT.



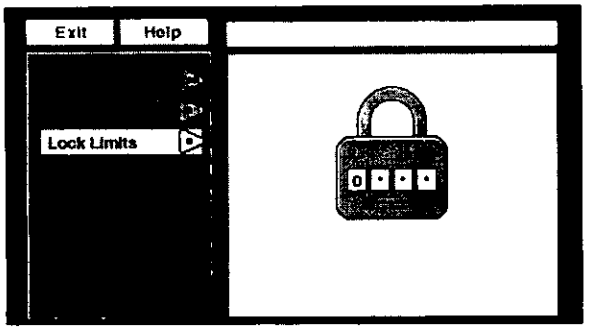
Set a per-event spending limit.

2. Use the arrow keys to enter a single-program spending limit.
3. When finished you can lock the system, edit a user profile, exit to the preceding screen, or press EXIT to go back to normal viewing.

Locking the System

Locking the system lets you manage your family's access to DSS® programming. The User Profile settings for channel lists, ratings limits, or spending limits go into effect when you lock the system.

1. Point to *Lock Limits* and press MENU/SELECT.



Enter a four-digit system password to lock the system.

Unlocking a User's Profile

If you forget your user password, you might need to unlock the user in order to set a new one.

Go the Edit User screen, point to *Unlock User* and press the MENU/SELECT button; then you can enter a new password.

2. Use the arrows or the digit keys to enter a four-digit system password.
3. Enter the password a second time to confirm it.

   After the system has been locked, you must enter the correct password in order to access System Control screen, so **Don't Forget Your Password!** If you do forget your password, contact your program provider's authorization center.

Unlocking the System

When the system is unlocked, the spending, rating, and channel limits that you have set are no longer in effect.

1. Point to *Unlock Limits* and press MENU•SELECT.
2. Point to *Yes* and press MENU•SELECT to confirm that you want to unlock the system.

Session Unlock

If your system is locked and you attempt to access a channel or program that is blocked by one or more limits, you are asked to enter the four-digit system password to override the system lock. If you enter the password to override the rating, spending, or channel limit, all limits are unlocked until you turn off the receiver. When you turn on the receiver again, the system will be locked, and in family mode.

Choosing Your Profile to Watch DSS® Programming

Each time that you turn on the DSS® receiver, the Family profile is selected by default.

1. Press the FAV button on the remote to scroll through the profiles.
2. When your profile appears, enter your four-digit personal password to activate your profile.
   - If the profile is not password protected, you can just press MENU/SELECT to activate it.

Now, the ratings and channel limits will reflect the chosen profile.

Forget Your System Password?

You need to contact your program provider's authorization center to reset your system if you forget your system password.

Pay-Per-View Programs

A pay-per-view program (PPV) is aprogram that you purchase—like a movie ticket—on an event-by-event basis. For instance, you might be able to preview a movie, and then after previewing it, you can purchase the movie.

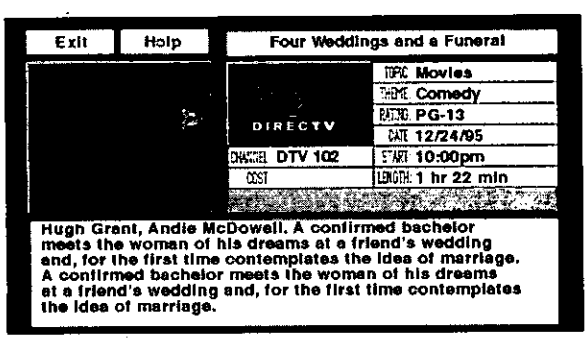
Purchasing and Viewing

There are several ways to purchase PPV movies and events:

- Tune to a PPV program by using the channel buttons on the remote to scan through the channel lists.
- Select a PPV program from the Program Guide.
- Select a coming attraction from the Attractions menu.

Tuning to a PPV Program

When you use the channel buttons or digits on the remote to tune to a Pay-Per-View channel, you need to press the RECALL button to bring up the Program Details screen in order to purchase a program.



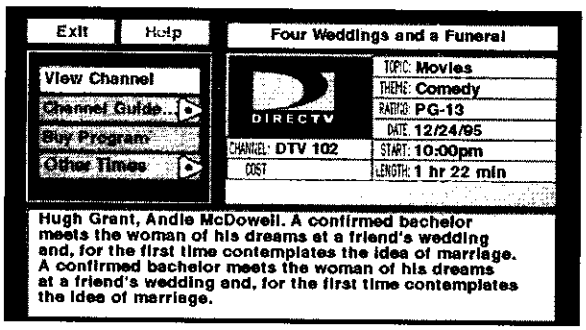
Program Details screen.

Follow the on-screen instructions to purchase the selected program.

You may need to enter your four-digit system password to order a PPV program if it costs more than the spending limit you set up in the Profiles menu.

Using the Program Guide for PPV Programs

If you highlight a PPV program in the Program Guide and then press RECALL on the remote control, you see a program details screen similar to the following:



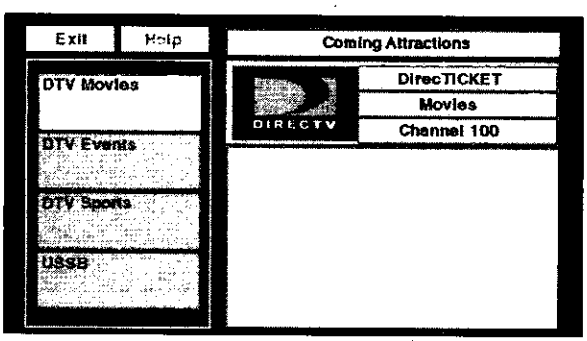
Use the Program Guide to get to the PPV Program Details screen.

- Select *View Channel* to see go to that channel and view a program preview (if a preview is available).
- Select *Channel Guide* to go to the channel guide.
- Select *Buy Program* to purchase the program.
- Select *Other Times* to see additional show times.

Using the Attractions Guide

Your program providers may offer future programming events not currently listed in your Program Guide. These events are called "coming attractions," and can be previewed and purchased through the Attractions Guide.

Use Point and Select to go to the *Attractions Guide* (located within the Program Guide menu).



The Attractions Guide is accessed through the Program Guide menu.

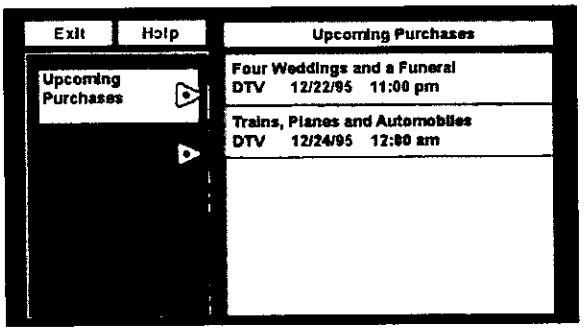
Buy and Record Option

Your program provider may offer PPV programs that are coded so that you cannot record them. When these programs are offered, an additional option (*Buy and Record*) appears in the program details screen. Selecting *Buy and Record* allows you to record the program; selecting *Buy Program* allows you only to watch the program.

You need to connect your phone line to your satellite receiver to be able to order PPV programs by using the on-screen menus.

Using the Purchases Menu

The Purchases menu allows you to review upcoming and past purchases.



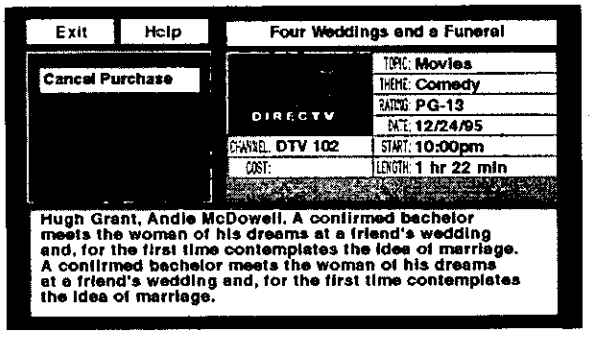
The Purchases menu shows you upcoming or past purchases.

The list of purchases may be longer than one screen; use the down arrow keys to see more items. The display also shows the title, channel, date, time, and cost of each program.

- Note that the Past Purchases list might be modified after each billing cycle and still show purchases for which you have already paid.

Reviewing and Canceling an Upcoming Purchase

Use Point and Select to choose an upcoming purchase and review the program description. From the Purchase Edit screen, you can also cancel an upcoming purchase.

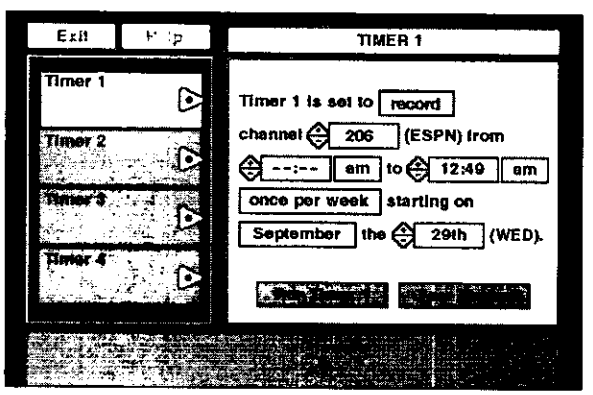


The Purchase Edit screen lets you cancel an upcoming purchase.

Timer Feature

The Timer feature allows you to preset your system to automatically tune to a particular channel at a predetermined time, and even to record that channel.

To use the Timer feature, select *Timers* from the main menu to bring up the Timers screen. Select a Timer (1, 2, 3, or 4) and then use the arrow keys to complete the on-screen sentence. When the sentence is complete, select *Run Timer.*



Complete the sentence to set up the selected timer.

Setting Up Timer Recordings

The Timer feature allows you to set up timer recordings when you connect the VCR controller to your DSS® receiver, and tell the receiver what type of VCR you are using.

Locating the Infrared Remote Control Sensor on Your VCR

The VCR controller must be affixed directly over the infrared remote sensor on your VCR.

Some VCRs label the infrared remote sensor, and others do not. If your VCR is labeled, affix the VCR controller directly over the sensor.

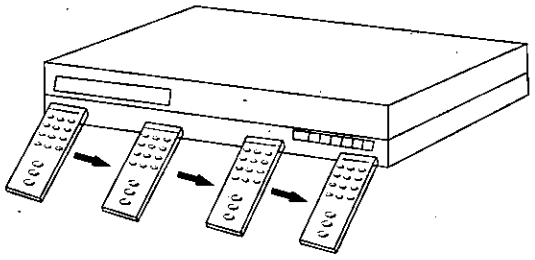
Infrared Remote Sensor

MORE FEATURES

For VCRs that do not label the remote sensor, you need to use the VCR's remote to locate the sensor before affixing the VCR controller.

1. Hold the remote control so that it is touching the front of the VCR.
2. Slowly move the remote over the front of the VCR while pressing the remote power button on and off.
3. When your VCR turns off or on, you have located the sensor.

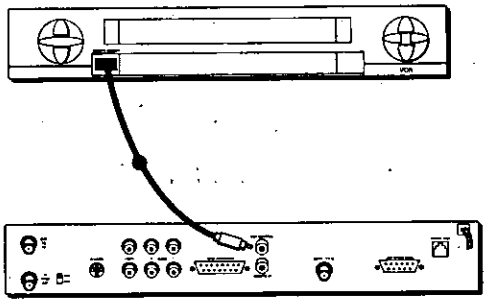
To test the VCR controller, use a piece of clear tape to temporarily attach the VCR controller to the spot where you think the sensor is located, and then follow the steps described under "Selecting a VCR Type."



Connecting the VCR Controller

In order for the receiver and VCR to communicate, you need to attach the VCR controller to the back of the satellite receiver.

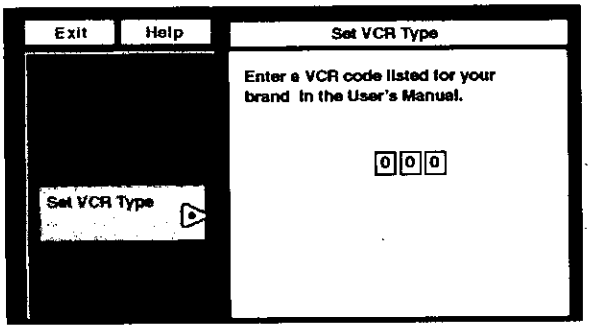
1. Plug the VCR controller into the VCR CONTROL jack on the back of the satellite receiver.
2. Affix the other end to the remote sensor on your VCR.



Connect the VCR controller to the infrared remote sensor on your VCR.

Selecting a VCR Type

You need to tell the satellite receiver which VCR brand you are using by selecting *Set VCR Type* from the *Options* menu.



The Set VCR Type screen is located in the Options menu.

1. Use the arrows or digit keys to input the correct code for your VCR brand. The VCR codes are located on the next page.
2. Follow the on-screen instructions to ensure that you are using the correct code. If the VCR automatically stops tape play, then you know that the satellite receiver and the VCR are communicating.
   - Some VCR brands may not be capable of being controlled by the satellite receiver.

For One-Button Recording, use the codes listed on the following page.

One-Button Recording VCR Codes

Aiwa 015
Akai 003, 017, 022, 023, 063, 066
Audio Dynamics 014, 016
Broksonic 010
Candle 007, 009, 013, 044, 045, 046, 052
Cannon 008, 053
Capehart 001
Citizen 007, 009, 013, 044, 045, 046, 052
Colortyme 014
Craig 007, 012
Curtis-Mathes 000, 007, 008, 014, 015, 044, 046, 053, 064, 067
Daewoo 013, 045, 052, 076
DBX 014, 016
Dynatech 015
Electrohome 027
Emerson 008, 009, 010, 013, 015,020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070
Fisher 002, 012, 018, 019, 043, 048, 058
Funai 015
GE 000, 007, 008, 032, 053
Goldstar 009, 014, 046, 060
Harman Kardon 014
Hitachi 005, 015, 035, 036
Instant Replay 008
JCL 008
JC Penney 002, 005, 007, 008, 014, 016, 030, 035, 051, 053
JVC 002, 014, 016, 030, 046
Kenwood 002, 014, 016, 030, 044, 046
KLH 073
Lloyd 015
Logik 031
Magnavox 008, 029, 053, 056
Marantz002, 008, 014, 016, 029, 030, 044, 046, 061
Marta 009
MEI 008
Memorex 008, 009, 012, 015
MGA 004, 027
Midland 032
Minolta 005, 035
Mitsubishi 004, 005, 027, 035, 040
Montgomery Ward 006
MTC 007, 015
Multitech 007, 015, 031, 032
NEC 002, 014, 016, 030, 044, 046, 059, 061, 064
Panasonic 008, 053, 075, 077
Pentax 005, 035, 044
Pentex Research + ... 046
Philco 008, 029, 053, 056
Philips 008, 029
Pioneer 005, 016, 033, 050
Portland 044, 045, 052
ProScan 000
Quartz 002
Quasar 008, 053
RCA 000, 005, 007, 008, 028, 035, 037, 054, 069
Radio Shack/Realistic 002, 006, 008, 009, 012, 015, 019, 027, 043, 053
Samsung 007, 013, 022, 032, 042
Sansui 016
Sanyo 002, 012
Scott 004, 013, 041, 049, 068
Sears 002, 005, 009, 012, 018, 019, 035, 043, 048
Sharp 006, 024, 027, 039, 045
Shintom 017, 026, 031, 055
Sony 017, 026, 038
Sylvania 008, 015, 029, 053, 056
Symphonic 015
Tandy 002, 015
Tashiko 009
Tatung 030
Teac 015, 030, 069
Technics 008
Teknika 008, 009, 015, 021
Toshiba 005, 013, 019, 048, 049
Totevision 007, 009
TMK 067
Unitech 007
Vector Research 014, 016, 044
Victor 016
Video Concepts 014, 016, 044
Videosonic 007
Wards 005, 006, 007, 008, 009, 012, 013, 015, 025, 027, 031, 035
Yamaha 002, 014, 016, 030, 046
Zenith 011, 017, 026. 072

Recording with Timer

If you choose *Record* instead of *Watch* when setting the Timer (and have set up your VCR as previously discussed), the Timer will toggle on your VCR, then start and stop recording a program.

You need to make sure that a video tape with safety tabs in place is inserted in the VCR and that the VCR is

- Preset to the satellite receiver's output channel (RF or Line).
- OFF at the time the program is to start recording.

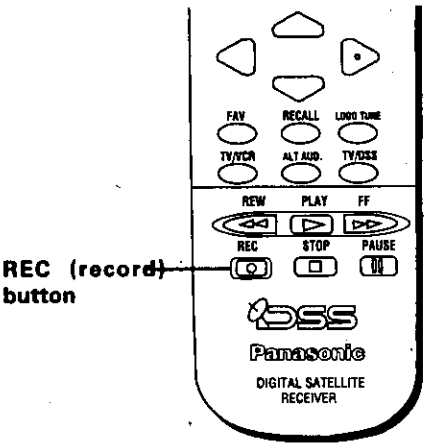
Editing or Canceling a Timer

From the Timers screen, select the Timer you want to edit or cancel, and then do the following:

- Use the arrows keys to edit the Timer, then select *Run Timer.*
- Select *Clear Timer* to cancel the timer completely.

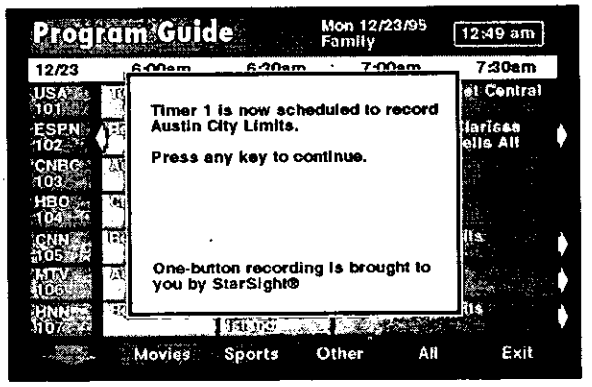
One-Button Recording

Press the REC (record) button on the remote while you have a program selected in the guide to set up a timer program. The program information (channel, time, etc.) is stored in the first available timer.



Editing One-Button Recording Settings

A confirmation screen appears when you use one-button recording indicating in which Timer the information is stored.



When you use one-button recording, only the individual program that you select will be recorded. If you want to record the program on a daily or weekly basis, go to the *Timers* menu and edit that program's timer.

Using Logo Tune

Press the LOGO TUNE button on the remote to bring up the current channel list in channel logo format. Then Point and Select a channel from the logo list.

Use Logo Tune to see a logo-based channel list.

One-Button Record Tip

Make sure that the remote control is in DSS® mode when using one-button record, or you might accidentally start recording on your VCR.

The Mailbox

The mailbox shows you messages that are sent—or "mailed"—from your program providers. For example, you may receive a message calling your attention to a new service.

How to Tell When You Have Mail

There are two ways to tell if you have mail, depending on whether the satellite receiver is turned on or off.

- If the satellite receiver is turned on, a mail icon appears in the upper right corner of the channel marker.
- If the satellite receiver is turned off, the POWER light on the front panel of the receiver flashes.

Checking Your Mail

Select Mailbox on the Main menu to view your mail.

1. Point to a message and press MENU/SELECT. The message is opened for you to read.
2. Press MENU/SELECT again to close the letter.

   After you read a message and want to erase it, point to *Erase* and press MENU/SELECT. When you exit the display screen, messages not erased are saved in memory.

Alternate Audio Programs

Alternate Audio allows you to select different audio programs (when available) to be played with the video. For example, audio broadcast in a second language may be available for certain programs.

There are two ways to change the audio:

- Press ALT AUD on the remote.
- Select *Alternate Audio* from the *Preferences* menu (located within the *Options* menu).

ALT AUD Remote Button

Temporary audio selections are made by pressing ALT AUD on the remote. All the available audio types are selected one after another as you continue pressing the ALT AUD button. Once selected, the chosen audio remains selected until it is changed or until the satellite receiver is turned off.

Is your POWER Light Flashing?

Don't worry, your receiver's not broken. It means that you have mail.

Alternate Audio Display Screen

When you select Alternate Audio from the *Preferences* menu, the Alternate Audio display screen comes up.

Point to an audio language, and press MENU/SELECT. A check mark next to a language option means you have selected that language. The satellite system will then automatically set the audio program to the selected audio program type when that type is available.

Picture Size

The Picture size display screen allows you to choose between a standard TV screen and a Cinema option. A standard TV screen has an aspect ratio of 4:3; the Cinema option has an aspect ratio of 16:9.

System Test

The System Test display screen is accessed through the Options menu, and allows you to initiate diagnostic procedures on the satellite system. You should use this feature to get your Access Card number, or when your receiver doesn't seem to be working correctly. There are four separate tests: signal, tuning, phone connection, and access card.

A message screen appears, telling you whether the system passed each test. If your system fails a test, run the system test several times before concluding that there is a problem. Occasional fluctuations in the phone line or satellite signal can give temporary false failure readings.

New Access Card Setup

Periodically, your program provider may issue a replacement access card. The New Access Card Setup display screen allows you to transfer the information from the old card onto the new one.

Follow the display screen prompts to initialize your new card. Once you have transferred the information to the new card, your old card becomes invalid.

Because your specific account information and custom settings are stored in the access card, power failures should have no effect on your satellite system.

Regarding Picture Size...

You should only use the Cinema option if you have a wide screen TV; using the Cinema option on a standard TV screen could crop the picture.

Using On-Line Help

On-line Help is available for all of the menus and display screens. The System provides Auto Help, Help buttons, and Menu Help.

Auto Help

Most menus contain a short description of that menu.

Help Buttons

Help buttons appear in many display screens. To see information about the display screen you are using, point to the Help button and press MENU/SELECT.

Press MENU/SELECT again to remove the message from the screen.

Menu Help

Select *About DSS* from the Assistance menu to choose from a list of on-line Help topics. Point and select to find out about the specific parts of the satellite system, then use the right arrow key to continue through each of the Help screens or press MENU/SELECT to return to the Help menu.

Program Guide shows a screen-by-screen overview of the Program Guide features.

Menu System shows a screen-by-screen overview of the DSS® menu system.

Remote Control shows an on-screen display of the remote control. Point to the different remote buttons to see a brief description of the highlighted button.

Front Panel shows an on-screen display of the satellite receiver front panel. Point to the different front panel features to see a brief description of the highlighted feature.

Back Panel shows an on-screen display of the satellite receiver back panel. Point to the different back panel features to see a brief description of the highlighted feature.

Glossary shows a list of common DSS® and TV terms. Point to a glossary item to see a brief description.

Use the *About DSS* menu (within the Assistance menu) to learn more about your system.

Things to Know Before Connecting Components

Protect Your Components from Power Surges

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the satellite receiver, TV and other components before you connect or disconnect any cables.

Position Cables Correctly to Avoid Audio Hum or Interference

- Insert all cable plugs firmly into their jacks.
- Place the audio/video cables to the sides of the TV's back panel instead of straight down the middle after you connect your components.
- Try not to coil any twin-lead cables and keep them away from the audio/video cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your unit.

Protect Your Components from Overheating

- Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely.
- Do not stack components.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier or satellite receiver on the top shelf of the stand so heated air rising from it will not flow around other components.

CAUTION

Do not stack electronic components or other objects on top of the DSS Receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

Connecting Your Satellite Receiver to Your TV

If your satellite system has not been professionally installed, or if you move your system or add a component, refer to these pages to help you connect your system.

Jacks and Cables

S-Video Jack and Cable (S-VHS)

The S-Video jack provides the best picture quality for your satellite system.

This jack is available on many TVs and is used in conjunction with audio cables to connect the satellite receiver to your TV. Remember also to connect the left and right audio cables because the S-Video jack carries only the picture signal, not the sound.

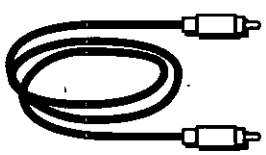
S-Video Jack

Audio/Video Jacks and Cables (RCA-type)

The audio/video jacks provide very good picture and stereo sound quality, and should be used if your TV has no S-Video jack.

These jacks are used for most audio/video connections between components. The satellite receiver audio/video jacks are color coded (yellow for video, red for right audio, and white for left audio). If your TV has only one input for audio (mono), connect it to the right (red) audio jack on the satellite receiver.

Audio/Video Jack

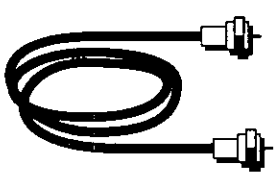


RF Jacks and Coaxial Cables (F-type)

The RF jacks provide good picture and mono sound quality, and are to be used if audio/video connections are not available for your TV.

These jacks are required for antenna or cable-TV connections. The RF jacks on the satellite receiver are labeled IN FROM ANT and OUT TO TV. The coaxial cable supplied with your satellite system is used to connect the RF jacks between the satellite receiver and your TV's antenna input.

RF Jack



CONNECTIONS

Choosing a Connection

The following pages show four examples of hookups commonly used to connect the satellite receiver with a TV and other components. Refer to your TV and VCR Owner's Manuals for more information on hooking up your specific components.

Connection A

Provides the best possible picture and stereo audio quality.

To use Connection A, you must have:

- TV with S-Video input, plus separate RF and audio/video inputs (jacks).
- VCR with RF and audio/video inputs and outputs
- S-Video, coaxial, and audio/video cables

Connection B

Provides very good picture and stereo audio quality.

To use Connection B, you must have:

- TV with separate RF and audio/video inputs (jacks)
- VCR with RF and audio/video inputs and outputs
- Coaxial and audio/video cables

Connection C

Provides good picture and mono audio quality.

To use Connection C, you must have:

- TV with RF input (jack)
- VCR with RF and audio/video inputs
- Coaxial and audio/video cables

Connection D

Provides good picture and mono audio quality.

To use Connection D, you must have:

- TV with RF input (jack)
- Coaxial cables

CAUTION

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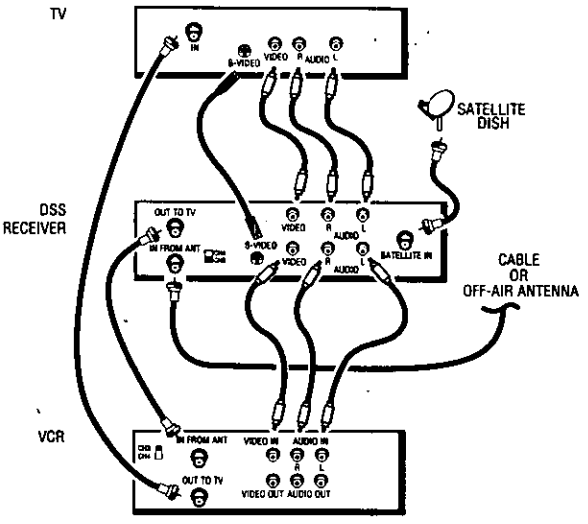
Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

Connection A

Best Picture and Sound Quality

To use this connection you must have:

- TV with separate RF, audio/video, and S-Video inputs (jacks)
- VCR with RF and audio/video inputs
- Coaxial, audio/video, and S-Video cables



To connect TV, VCR and antenna or cable box.

1. Connect coaxial cables as shown.
2. Connect audio/video cables as shown.
3. Connect S-Video cable as shown.

To receive DSS® programming:

1. Tune TV to receive the S-Video output from the satellite receiver.
2. Tune satellite receiver to desired channel.

To receive off-air programming (no cable box):

1. Turn off VCR and satellite receiver.
2. Tune TV to desired channel.

To receive off-air programming (with cable box):

1. Turn off VCR and satellite receiver.
2. Tune TV to cable box output channel (usually CH2, CH3, or CH4).
3. Tune cable box to desired channel.

To record DSS® programming:

1. Tune TV to receive S-Video output from satellite receiver.
2. Tune satellite receiver to desired channel.
3. Set your VCR to record on line input.

To view VCR programming:

1. Tune TV to VCR output channel (usually CH3 or CH4).

CAUTION

Do not stack electronic components or other objects on top of the DSS Receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

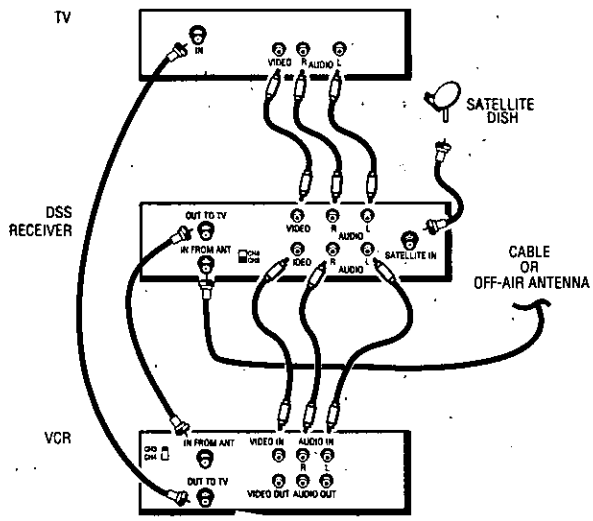
Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

Connection B

Very Good Picture and Sound Quality

To use this connection you must have:

- TV with separate RF and audio/video inputs (jacks)
- VCR with RF and audio/video inputs
- Coaxial and audio/video cables



To connect TV, VCR and antenna or cable box.

1. Connect coaxial cables as shown.
2. Connect audio/video cables as shown.

To receive DSS® programming:

1. Tune TV to receive line output from satellite receiver (often called Input 1).
2. Tune satellite receiver to desired channel.

To receive off-air programming (no cable box):

1. Turn off VCR and satellite receiver.
2. Tune TV to desired channel.

To receive off-air programming (with cable box):

1. Turn off VCR and satellite receiver.
2. Tune TV to cable box output channel (usually CH2, CH3, or CH4).
3. Tune cable box to desired channel.

To record DSS® programming:

1. Tune TV to receive line output from satellite receiver (Input1).
2. Tune satellite receiver to desired channel.
3. Set your VCR to record on line input.

To view VCR programming:

1. Tune TV to VCR output channel (usually CH3 or CH4).

CAUTION

Do not stack electronic components or other objects on top of the DSS Receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

Connection C

Good Picture and Sound Quality

To use this connection you must have:

- TV with RF input (jack)
- VCR with RF and audio/video inputs
- Coaxial and audio/video cables

To connect TV, VCR, and antenna or cable box.

1. Connect coaxial cables and audio/video cables as shown.

To receive DSS® programming:

- Tune TV to channel 3 or 4 (depending on how you set the CH3/CH4 switch on the back of the receiver).

To receive off-air programming (no cable box):

1. Turn off VCR and satellite receiver.
2. Tune TV to desired channel.

To receive cable programming (with cable box):

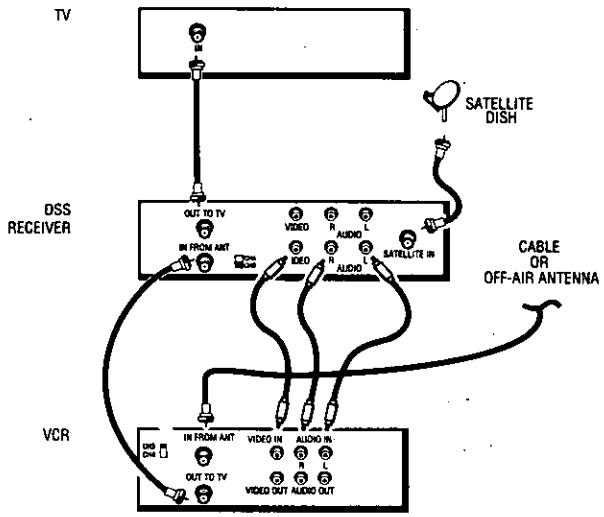
1. Turn off VCR and satellite receiver.
2. Tune TV to cable box output channel (usually CH2, CH3, or CH4).
3. Tune cable box to desired channel.

To record DSS® programming:

1. Tune TV to the channel on which you receive the DSS® signal.
2. Tune satellite receiver to desired channel.
3. Set VCR to record on line input.

To view VCR programming:

1. Tune TV to VCR output channel (usually CH3 or CH4).
2. Turn satellite receiver off.



CAUTION

Do not stack electronic components or other objects on top of the DSS Receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

Connection D

Good Picture and Sound Quality)

To use this connection you must have:

- TV with RF input
- Coaxial cables

To connect TV and antenna or cable box:

1. Connect coaxial cables as shown.

To receive DSS® programming:

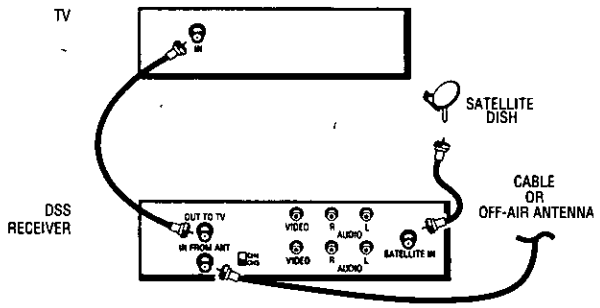
- Tune TV to channel 3 or 4 (depending on how you set the CH3/CH4 switch on the back of the receiver.

To receive off-air programming (no cable box):

1. Turn off satellite receiver.
2. Tune TV to desired channel.

To receive cable programming (with cable box):

1. Turn off satellite receiver.
2. Tune TV to cable box output channel (usually CH2, CH3, or CH4).
3. Tune cable box to desired channel.



CAUTION

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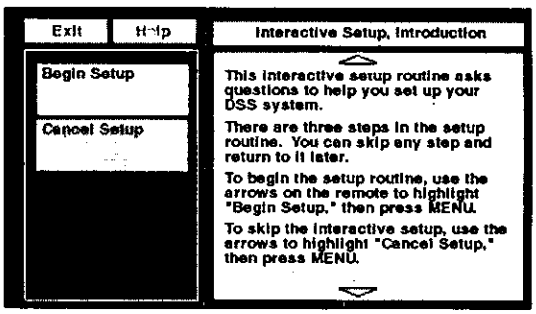
Do not stack the DSS receiver on top of a "hot component" such as an audio power amplifier.

Interactive Setup



If you self-installed your satellite dish, you may have already used the interactive setup to find the dish pointing coordinates, acquire and fine-tune the signal, and run a system test.

If you need to run the interactive setup again, go to the *Assistance* menu and select *Setup.*

If you just want to check your dish pointing coordinates, or run the signal strength meter, select *Dish Pointing* from the Main menu.

Disabling Interactive Setup

The Interactive Setup menus automatically appear on-screen the first time you plug in your receiver, and when power is restored after a power loss.

The final step of the Interactive Setup allows you to disable the automatic appearance of the Interactive Setup.

To enable it again, select *Setup* from the *Assistance* menu and then follow the Interactive Setup routine until the end, where you can choose to enable the automatic feature.

REFERENCE

DSS® System Overview

Although the DSS® system is simple to use, there are a number of parts in the system. Don't be overwhelmed. This section explains how these different parts work together to bring a picture to your screen.

Controls and Buttons

This section also describes the controls located on the front and back of the receiver.

Programming the Remote Control

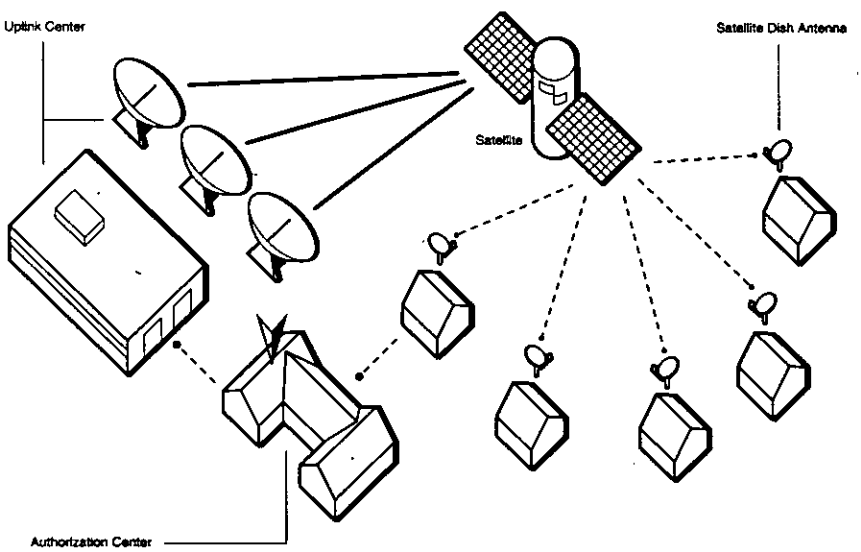
Your remote capable of controlling other devices as well. This section tells you how to program the remote to control TVs, VCRs, Laserdisc players, and other equipment.

Parts of the DSS® System

One way to understand the DSS® system is to look at the different parts of the system—from the studio down to the satellite receiver and remote control in your home.

World View

These parts make up the DSS® system "big picture."



Uplink Center Transmits programming up to the satellite.

Satellite Relays the programming signals back to your satellite dish. The satellite is parked above the equator, in geostationary orbit 22,300 miles above the earth.

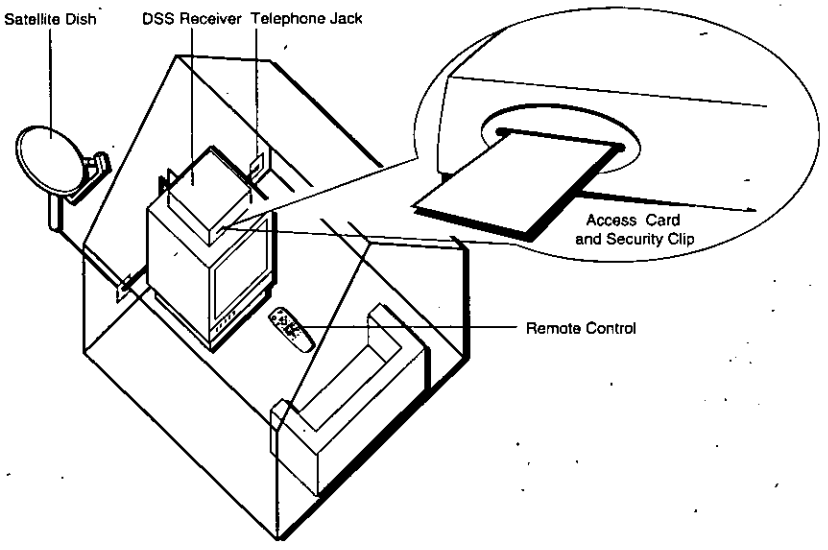
Satellite Dish Antenna Receives the satellite signals. Because the satellite is so powerful, the dish can be as small as 18 inches.

Program Provider Authorization Center Processes billing statements. Your DSS® system is linked to the Service Center through the phone jack on the back of your satellite receiver.

REFERENCE

Home View

These parts are inside of or attached to your house.



Satellite Dish Picks up the satellite's coded program information and relays it to your satellite receiver. (Your satellite dish may be installed in different locations on or around your house. The satellite dish must, however, be pointed in a southern direction toward the satellite.)

Satellite Receiver Receives the TV program information and sends it to your TV or VCR.

Telephone Jack Connects to the phone jack on the back of the satellite receiver. The satellite receiver uses a toll-free number once a month to update your access card. This update only takes a few seconds and ensures that you will have continuous service. The system automatically hangs up if you pick up the phone when the satellite receiver is calling out.

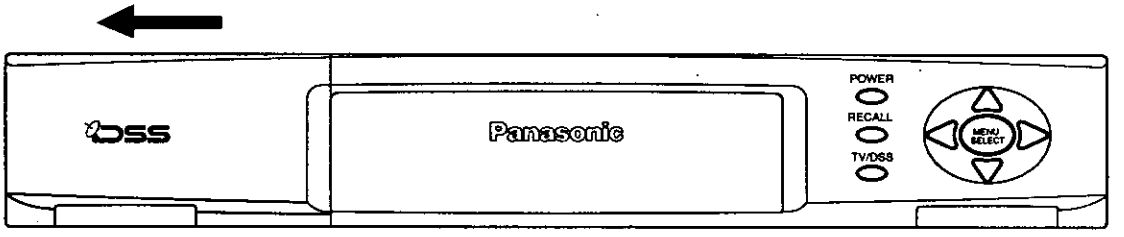
Television If your television is remote controllable, you can program the remote to change channels and volume.

Home Theater Universal Remote (included with your DSS® system) Controls the DSS® system as well as most remote controllable TVs, VCRs, and other devices. You may need to program the remote to control specific brands of devices you own.

Access Card (installed in satellite receiver) Must be inserted for you to use the DSS® system! Provides system security and authorization of DSS® services. Do not remove the card except when issued a new card as a replacement for the original.

Controls and Buttons

This part of the Reference sections discusses the controls and buttons located on the receiver and the remote control.



Slide open the door to get to the Access Card.

Front Panel Controls

POWER Turns the satellite receiver's power on or put the unit into standby mode.

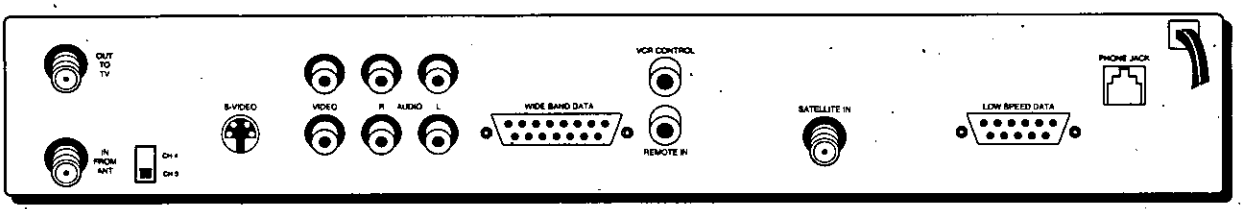
RECALL Brings up the on-screen channel marker.

TV/DSS Switches the source of the video signal from DSS® satellite signals to an off-air antenna or cable signal (if you are using RF output from the satellite receiver).

ARROWS Press the navigation arrows to move the on-screen highlight up, down, left, or right. Using the arrows to highlight a menu item is also called "pointing."

MENU/SELECT Brings up the Main Menu. If you are already in the menu system (or a program guide), press MENU/SELECT to select a highlighted choice.

ACCESS CARD Identifies you to your program providers. The DSS® system requires a valid access card.



Back Panel

IN FROM ANT Use to connect an off-air antenna or cable TV signal to the DSS® system.

OUT TO TV Use to connect the satellite receiver to your TV. However, if your TV has audio/video jacks, you should use those jacks to get better picture and sound quality.

CH3/CH4 SWITCH If a coaxial cable is used to connect the satellite receiver to your TV, you must set the CH3/CH4 SWITCH. For example, to see the DSS® signal on TV channel 3, set the switch to 3.

S-VIDEO Provides the best picture quality. If your TV has S-VIDEO capability, use this jack along with the audio/video input jacks to connect the satellite receiver to your TV.

VIDEO Provides better picture quality than the OUT TO TV jack. If your TV has audio/video capability, use this jack to connect the satellite receiver to your TV. You must also connect the AUDIO jacks.

AUDIO (R and L) Provide better sound quality than the OUT TO TV jack. If your TV has audio/video capability, use these jacks to connect the satellite receiver to your TV. You must also connect the VIDEO jack.

WIDE BAND and LOW SPEED DATA PORTS These ports allow you to connect the DSS® system to future services and accessories as they become available. A shielded cable and additional hardware may be required.

SATELLITE IN Use to connect the satellite receiver to the satellite dish.

VCR CONTROL Allows the receiver and VCR to communicat with via the VCR controller for timer recordings.

REMOTE IN Use in conjunction with remote control signal senders to control the receiver from another room.

PHONE JACK Use to connect a phone line to the satellite receiver. The DSS® system uses a phone line connection to periodically call out to program providers.

Remote Control Buttons

① **DIGIT KEYS (0 - 9)** Use the digit keys to tune directly to a channel. If you are in the menu system, use the digit keys to enter numbers for the time, date, channel, and passwords.

② **TV/VIDEO** Press to select TV or Video input.

③ **MUTE** Turns off the sound. Press again to restore the sound.

④ **Mode Selection Buttons** Selects the operation mode for the remote control.

⑤ **VOL UP/DOWN** Adjusts the audio volume.

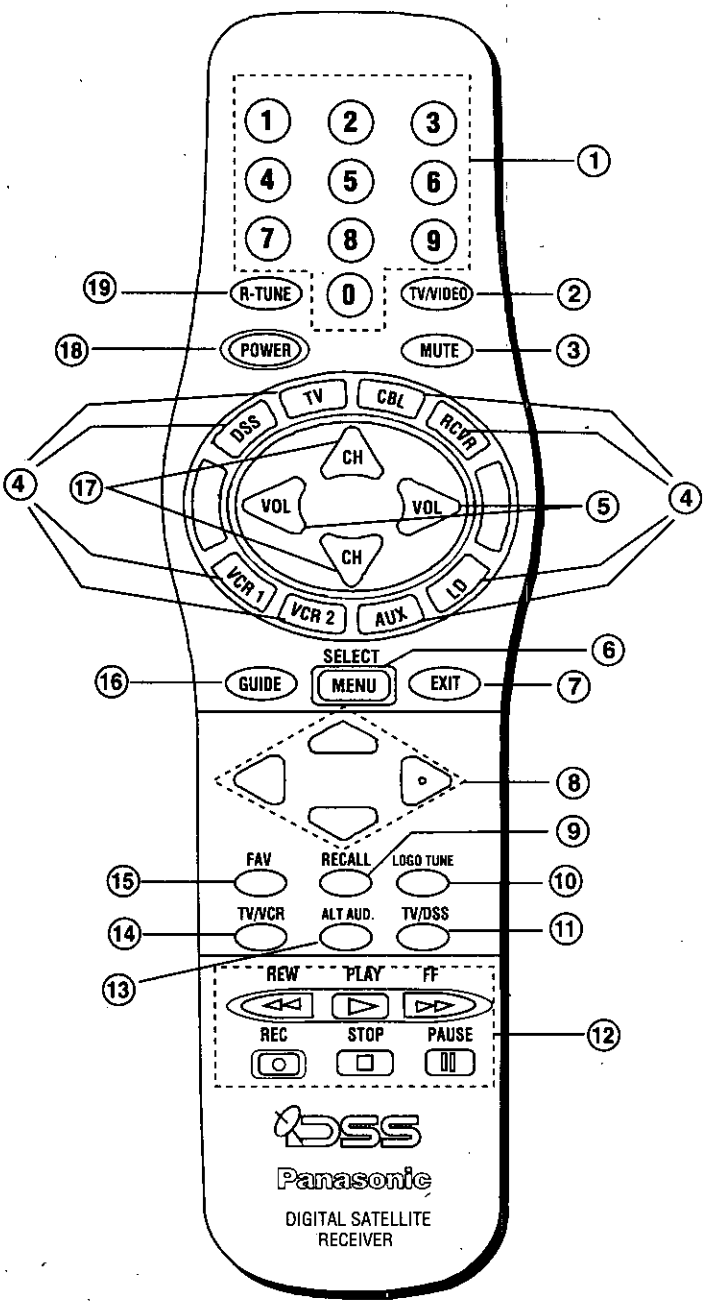
⑥ **MENU/SELECT** Brings up the Main menu. If you are already in the menu system (or a program guide), press MENU/SELECT to select a highlighted choice.

⑦ **EXIT** Removes the on-screen displays and return to normal viewing.

⑧ **ARROWS** Use the navigation arrows to move the on-screen highlight up, down, left, or right. Using the arrows to highlight a menu item is also called "pointing."

⑨ **RECALL** Brings up the on-screen channel marker.

⑩ **LOGO TUNE** Brings up the on-screen logos that correspond to your current channel list. Use the arrows to point to a logo and tune to that channel.



To Maximize Battery Life...

The lights can be turned OFF and ON by pressing R-TUNE and RECALL at the same time.

⑪ **TV/DSS** Switches the video input between TV and DSS® mode.

⑫ **VCR Control Buttons** Use when controlling an auxiliary device, such as a VCR or laserdisc player.

⑬ **ALT AUD (Alternate Audio)** Use to step through the available languages or audio types for a program.

⑭ **TV/VCR** Switches the video input between TV and VCR.

⑮ **FAV** Use to toggle through the favorite channel lists.

⑯ **GUIDE** Brings up the on-screen program guide. Continue to press the GUIDE button to toggle between the Grid and Info Guide options.

⑰ **CHAN UP/DOWN** Use to scan up and down through the channels in the current channel list. If you are in the program guide or menu system, use the CHAN UP/DOWN buttons to page up and down a screen at a time.

⑱ **POWER** Turns the device you are controlling on or off.

⑲ **R-TUNE (Rapid Tune)** Moves you back and forth between the last two selected channels.

Helpful Hints

If the selected component does not respond to the remote control, ensure that the proper mode is selected. **First**, press the **Mode Selection Button** that corresponds to that component. For example, after first pressing the DSS Mode button, the remote will remain in DSS® mode for any following commands. If another mode button is pressed while operating the satellite receiver, the DSS button must be pressed again to reset the DSS® mode condition.

Programming the Remote Control Using Access Codes

The Mode Selection Buttons control the operation of a TV, Cable box (CBL), VCR, Receiver (RCVR), Laserdisc player (LD), and auxiliary devices (AUX) such as a CD player, a Cassette Player or, a DVD player. The remote mode buttons can be set to control other manufacturer's devices by the following methods.

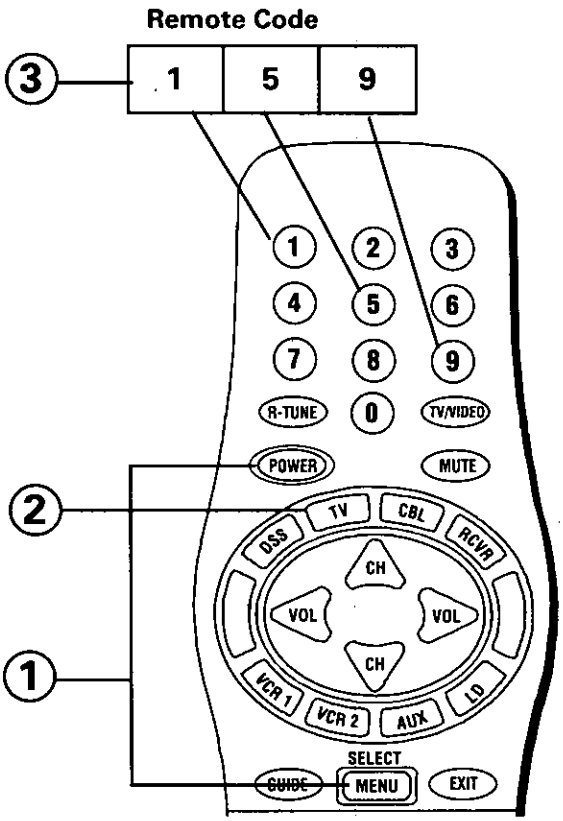
When the Code is Known (Preferred Method)

Procedure for setting up remote using the numerical buttons:

- Determine the brand of the device.
- Identify code(s) associated with the brand (see following pages for code listings). Record the applicable code for each device.
- Confirm the device is plugged in and operating properly.

1. Press and hold both the MENU/SELECT and the POWER buttons at the same time for at least five seconds (all mode buttons will flash); then release both buttons.
2. Press the Mode button that you want to program (TV, CBL, RCVR, VCR1, VCR2, AUX, or LD). The selected mode button will illuminate steadily; all others will go out.
3. Enter the three-digit code for the brand of device (from the code list on the pages that follow) by using the number buttons on the remote control.
   - When a valid code has been entered, the key illumination will blink twice and then go out.
4. Press POWER to send a test signal. If the code is correct, the device will respond correctly.

   Note that some brands have multiple codes. Repeat the procedure using each listed code until the device responds correctly.
   - If you enter an incorrect code or incomplete entry after thirty seconds, the settings will not change.



This remote may not operate all models of the brands that are shown. Use the codes shown in this manual, or on the sheet packed with your remote.

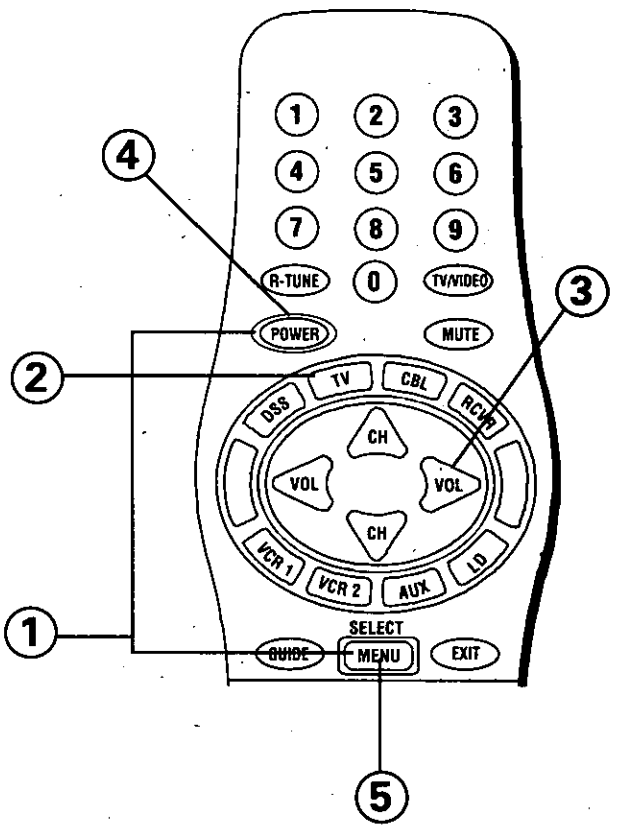
REFERENCE

When the Code is Not Known

Procedure for setting up remote using the numerical buttons:

- Confirm the device is plugged in and operating properly.

1. Press and hold both the MENU/SELECT and the POWER button at the same time for at least five seconds (all mode buttons will flash); then release both buttons.
2. Press the Mode button that you want to program (TV, CBL, RCVR, VCR1, VCR2, AUX, or LD). The selected mode button will illuminate steadily; all others will go out.
3. Press the VOL UP button to step to the next code.
4. Press POWER to send a test signal. If the code is correct, the device respond correctly.
   - Repeat the preceding steps until the proper device code is found. It may take several attempts before the correct code is found.
5. When the correct code has been found, press the MENU/SELECT button to store the code.



For future reference, write down the code numbers for each device in the space provided:

TV		**VCR1**	
CBL (cable box)		**VCR2**	
RCVR (Receiver or Amplifier)		**LD** (Laser Disc Player)	
_____ other component		_____ other component	

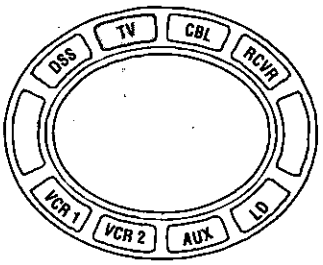
REFERENCE

Television Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of televisions. Refer to the preceding pages for programming procedures.

NOTE: The Universal Remote Control memory is limited. Some models of televisions may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote TV selection mode button.



Code Index for Televisions

TV Brand	Code(s)
A-Mark	003
Admiral	093
Aiko	092
Akai	030
Alleron	179
Anam	180
Anam National	055
AOC	003, 019, 030
Archer	003
Audiovox	003, 180
Belcor	019
Bell & Howell	016, 154
Bradford	180
Brockwood	019
Broksonic	003
Candle	030, 056
Carver	054
Celebrity	000
Citizen	030, 039, 056, 060, 092
Concerto	056
Contec	180
Craig	180
Crown	039, 180
Curtis Mathes	030, 039, 060, 154
CXC	180
Daewoo	019, 039, 092, 451
Daytron	019
Dumont	017, 019
Electroband	000
Emerson	019, 039, 154, 178, 179, 180, 236, 282, 463
Envision	030
Fisher	154, 159
Fujitsu	179
Funai	179, 180
Futuretech	180
GE	021, 047, 051, 055, 135, 178, 282, 451
Gibralter	017, 109, 030
Goldstar	019, 030, 039, 056, 178
Grunpy	179, 180
Hallmark	178
Harvard	180
Hitachi	056, 145
Ima	180
Infinity	054
JBL	054
JCB	000
JVC	053
KEC	180
Kenwood	019, 030
KTV	030, 039, 180
Logik	016
Luxman	056
LXI	047, 054, 154, 156, 178
Magnavox	030, 054
Majestic	016
Marantz	030, 054
Megatron	003, 145, 178
Memorex	016, 056, 150, 154, 178
MGA	019, 030, 150, 178
Midland	017, 039, 047, 051, 135
Minutz	021
Mitsubishi	019, 150, 178
Motorola	055, 093
MTC	019, 030, 056, 060
Multitech	180
NAD	156, 166, 178
NEC	019, 030, 056
Nikko	030, 092, 178
NTC	092
Onwa	180
Optimus	154, 166
Optonica	093, 165
Orion	236
Panasonic	051, 054, 055, 250
Penney	003, 018, 019, 021, 030, 039, 047, 051, 060, 135, 156, 178
Philco	019, 030, 054
Philips	054
Pilot	019, 030, 039
Pioneer	166
Portland	019, 039, 092
Priceclub	060
Prism	051
Proscan	047
Proton	003, 178, 466
Pulsar	017
Pulser	019
Quasar	051, 055, 250
Radio Shack	019, 039, 165, 180
RCA	018, 019, 047, 090, 135
Realistic	019, 030, 039, 056, 154, 165, 178, 180
Runco	017, 030
Sampo	030, 039
Samsung	019, 030, 039, 056, 060, 178
Samsux	039
Sanyo	154, 159
Scimitsu	019
Scotch	178
Scott	019, 178, 179, 180, 236
Sears	047, 054, 056, 154, 156, 159, 178, 179,
Sharp	039, 093, 165
Shogun	019
Signature	016
Sony	000
Soundesign	178, 179, 180
Spectricon	003
SSS	019, 180
Starlite	180
Supreme	000
Sylvania	030, 054
Tandy	093
Tatung	003, 055
Technics	051, 250
Technol Ace	179
Techwood	051, 056, 003
Teknika	019, 039, 054, 056, 060, 092, 150, 179, 180
TMK	056, 178
Toshiba	060, 154, 156
Totevision	039
Vector Research	030
Victor	053
Vidikron	054
Vidtech	019, 178
Wards	016, 019, 021, 030, 054, 056, 165, 178, 179
Yamaha	019, 030
Zenith	016, 017
Zonda	003

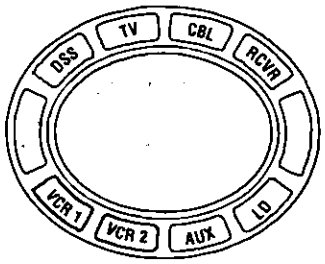
REFERENCE

VCR Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of VCRs. Refer to the preceding pages for programming procedures.

NOTE: The Universal Remote Control memory is limited. Some models of VCRs may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote VCR selection mode button.

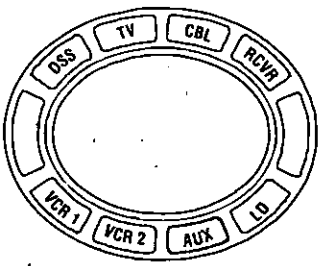


Code Index for VCRs

VCR Brand	Code(s)
Adventura	000
Aiko	278
Aiwa	000
Akai	041, 061
American High	035
Asha	240
Audiovox	037
Beaumark	240
Bell & Howell	104
Broksonic	121, 184, 211
Calix	037
Canon	035
Carver	081
CCE	072, 278
Citizen	037, 278
Colt	072
Craig	037, 047, 072, 240
Curtis Mathes	035, 041, 060
Cybernex	240
Daewoo	045, 278
Dynatech	000
Electrohome	037
Electrophonic	037
Emerex	032
Emerson	000, 002, 037, 043, 061, 121, 184, 211, 278, 479
Fisher	047, 104
Fuji	033, 035
Funai	000
Garrard	000
GE	035, 060
Goldstar	037, 038
Gradiente	000
Harley Davidson	000
Harman Kardon	038
Harwood	072
Headquarter	046
HI-Q	047
Hitachi	041, 042
Jensen	041
JVC	041, 067
KEC	037, 278
Kenwood	038, 041, 067
KLH	072
Kodak	035, 037
Lloyd	000
Logik	072
LXI	037
Magnavox	035, 039, 081
Magnin	240
Marantz	035, 081
Marta	037
Matsushita	035
MEI	035
Memorex	000, 035, 037, 039, 046, 047, 048, 104, 240
MGA	043, 061
MGN Technology	240
Minolta	042
Mitsubishi	043, 061, 067
Motorola	035, 048
MTC	000, 240
Multitech	000, 072
NEC	038, 041, 067, 104
Nikko	037
Noblex	240
Olympus	035
Optimus	037, 048, 104
Orion	479
Panasonic	035, 162, 225, 454
Penney	035, 037, 038, 042, 240
Pentax	043
Philco	035
Philips	035, 081
Pilot	037
Pioneer	067
Protec	072
Pulsar	039
Quarter	046
Quartz	046
Quasar	035
Radio Shack	000, 037
Radix	037
Randex	037
RCA	042, 060
Realistic	000, 035, 037, 046, 047, 048, 104, 240
Ricoh	034
Runco	039
Samsung	045, 240
Sanky	039, 048
Sansui	041, 067
Sanyo	046, 047, 104, 240
Scott	043, 045, 121, 184, 211
Sears	035, 037, 042, 046, 047, 104
Sharp	048
Shintom	072
Shogun	240
Singer	072
Sony	032, 033, 034, 035
STS	042
Sylvania	000, 035, 043, 081
Symphonic	000
Tatung	041
Teac	000, 041
Technics	035, 162
Teknika	000, 035, 037
TMK	240
Toshiba	043, 045
Totevision	037, 240
Unitech	240
Vector	045
Vector Research	038
Video Concepts	045, 061
Videosonic	240
Wards	000, 035, 042, 047, 048, 060, 072, 240
XR-1000	000, 035, 072
Yamaha	038
Zenith	033, 034, 039

Cassette Players, CD Players, DVD players Receivers, and Amplifiers Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cassette Players, CD Players, DVD players, Receivers, or Amplifiers. Refer to the preceding pages for programming procedures.



NOTE: The Universal Remote Control memory is limited. Some models of Cassette Players, CD Players, DVD Players, Receivers, or Amplifiers may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote AUX selection mode button to operate a Cassette Player, DVD player, or CD Player.

Code Index for Cassette Players

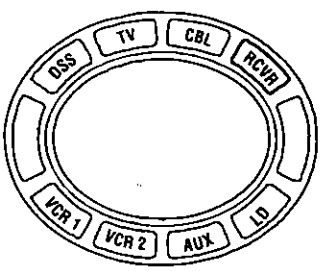
Brand	Code(s)
Panasonic	272
Technics	229

Code Index for DVD

Brand	Code(s)
Panasonic	490

Code Index for CD Players

Brand	Code(s)
California Audio Lab	029
Marantz	029
MCS	029
Panasonic	029, 367
Quasar	029
Technics	029, 303



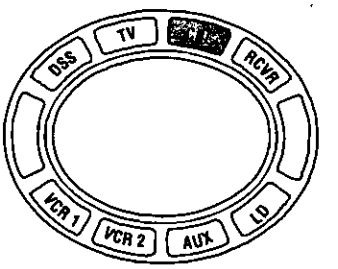
NOTE: After entering the proper infrared code, press the Remote RCVR selection mode button to operate a Receiver or Amplifier.

Code Index for Receivers and Amplifiers

Brand	Code(s)	Brand	Code(s)
ADC	531	Panasonic	039
Aiwa	121, 158, 189	Penney	195
Carver	008, 042, 189	Philips	189
Casio	195	Pioneer	014, 080, 531
Clarinette	195	Quasar	039
Denon	004	RCA	531
Fisher	042, 219	Realistic	195
Garrard	463	Sansui	189
JVC	074	Sanyo	219
Kenwood	027, 186	Sharp	186
Lloyd's	195	Sherwood	502
Magnavox	189, 195, 531	Sony	158
Marantz	039, 189	Teac	463
MCS	039	Technics	039, 208, 309, 518
Modulaire	195	Victor	074
NAD	320	Wards	014, 042, 080, 158, 189
Nakamichi	347	Yamaha	176, 186
Onkyo	135	Yorx	195
Optimus	080, 186, 219, 531		

REFERENCE

Cable Converter Box Infrared Codes Index



The Universal Infrared Remote Control is capable of operating many brands of Cable Converter Boxes. Refer to the preceding pages for programming procedures.

NOTE: The Universal Remote Control memory is limited. Some models of Cable Converter Boxes may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote CBL selection mode button to operate a Cable Converter Box.

Code Index for Cable Converter Box

Brand	Code(s)	Brand	Code(s)
ABC	003, 007, 008, 011, 014, 017	RCA	021
Contec	019	Regal	020
Dae Ryung	008	Rembrandt	011
Everquest	015	Runco	000
Gemini	015	Samsung	144
General Instrument	011, 476	Scientific Atlanta	008, 017, 477
Goldstar	144	Signal	015
Hamlin	020	Signature	011
Hitachi	011	Sprucer	021
Hytex	007	Starcom	003, 015
Jerrold	003, 011, 012, 014, 015, 476	Stargate	015
Memorex	000	Starquest	015
Oak	007, 019	Tocom	012
Panasonic	000, 021, 107	Toshiba	000
Paragon	000	Tusa	015
Pioneer	144	United Artists	007
Pulsar	000	United Cable	003
		Zenith	000

Laser Disc Players Infrared Remote Codes Index

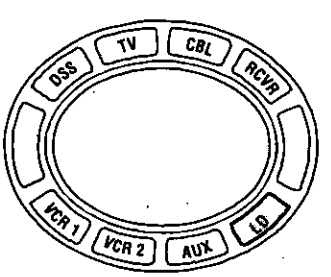
The Universal Infrared Remote Control is capable of operating many brands of Laser Disc players. Refer to the preceding pages for programming procedures.

NOTE: The Universal Remote Control memory is limited. Some models of Laser Disc players may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote LD mode button to operate a Laser Disc player.

Code Index for Laser Disc

Brand	Code(s)
Mitsubishi	059
NAD	059
Panasonic	204
Pioneer	059
Quasar	204
Sony	201



Remote Control Quick Reference Functional Key Chart

KEY	MODE	FUNCTION
1 2 3 4 5 6 7 8 9 0	DSS TV, VCR CBL	Selects channel Selects channel Selects channel
	RECEIVER/AMPLIFIER	① Selects Video 1 ② Selects Video 2 ③ Selects CD ④ Selects Tuner
	CD PLAYER	Selects Track Number
TV/VIDEO	TV (All Modes)	Selects the TV or Video Input Mode
POWER	ALL COMPONENTS	Turns On and Off Selected Components
MUTE	DSS, TV, VCR, LDP, DVD CBL RECEIVER/AMPLIFIER	Mutes TV Audio Mutes Audio Mutes Audio
R-TUNE	DSS TV CBL VCR RECEIVER/AMPLIFIER CD TAPE CASSETTE PLAYER	Selects Previously Tuned Channel Selects Previously Tuned Channel Selects Previously Tuned Channel Selects Previously Tuned Channel Switches Between AM and FM Selects Next Disc Selects Tape Cassette Player A or B
DSS	DSS (DIGITAL SATELLITE SYSTEM)	DSS Mode Selection for Remote Control
TV	TV	TV Mode Selection for Remote Control
CBL	CBL	Cable Mode Selection for Remote Control
RCVR	RECEIVER/AMPLIFIER	Receiver/Amplifier Mode Selection for Remote Control
VCR 1 VCR 2	VCR1, VCR2	VCR Mode Selection for Remote Control
AUX	CASSETTE PLAYER CD DVD	AUX Mode Selection for Remote Control Enables User to Operate a Tape Cassette Player, Digital Video Disc, or a CD Player.
LD	LASER DISC PLAYER	LD Mode Selection for Remote Control
CH CH	DSS TV CBL RECEIVER/AMPLIFIER LD DVD	DSS Channel Up/Down, Page Up/Down Channel Up/Down, Menu Navigation (Panasonic only) Channel Up/Down Preset or Tuning Frequency Skip + or Skip – Skip + or Skip –

Remote Control Quick Reference Functional Key Chart

KEY	MODE	FUNCTION
VOL VOL	DSS TV CBL RECEIVER/AMPLIFIER VCR LDP, DVD	TV Volume Volume Up/Down, Menu Navigation (Panasonic only) Volume Up/Down Volume Up/Down TV Volume Up/Down TV Volume Up/Down
GUIDE MENU EXIT	DSS (GUIDE) DSS (EXIT)	DSS Guide DSS Exit/Clear
SELECT MENU	DSS TV	Acts as Menu Button fro DSS Activates TV Menus (Panasonic TV Only) Act as Enter key on some brands of TVs
	DSS TV	DSS Menu/Guide Navigation Keys, DSS Channel Up/Down North, South, East, West Navigation keys for some Panasonic and Quasar TVs
FAV	DSS	Toggles through DSS Favorite Channel Lists.
RECALL	DSS	Displays Current DSS Settings Ch, Time, Programming Information
LOGO TUNE	DSS	Brings Up Network Logos for "Tuning by Logo" feature
TV/VCR	TV/CBL VCR	Toggle TV/VCR Mode of last selected VCR1, VCR2 TV/VCR Mode
ALT AUD.	DSS	Steps through all available languages for a program
TV/DSS	DSS	Switches the video input between TV and DSS mode
REW	TV/CBL VCR, LDP, TAPE, DVD CD	Rewind of last selected VCR1, VCR2, or LD Rewind Selects Previous Track
PLAY	TV/CBL VCR, LDP, CD, DVD TAPE	Play of last selected VCR1, VCR2, or LD Play Play (in Normal Direction)
FF	TV/CBL VCR, LDP, TAPE, DVD CD	Fast Forward of last selected VCR1, VCR2, or LD Fast Forward Selects Next Track
REC	TV/CBL DSS VCR, TAPE	Record of last selected VCR1, VCR2, or LD One-Touch Button Records in DSS Mode Record
STOP	TV/CBL DVD, VCR, LDP, TAPE, CD	Stop of last selected VCR1, VCR2, or LD Stop
PAUSE	TV/CBL DVD, VCR, LDP, TAPE, CD	Pause of last selected VCR1, VCR2, or LD Pause

Troubleshooting

The DSS® System Test allows you to run a basic diagnostics check on your DSS® system. If you are experiencing any trouble with your system, run the system test.

Make sure that

- All connections—jacks, cables, etc. are correctly in place.
- There are batteries in the remote, and that they are working correctly.
- The access card is installed in the receiver.

Running the System Test

Follow these steps to run the diagnostics system test on your system.

1. Turn on your TV and the satellite receiver.
2. Press DSS to put remote in DSS® mode, then press MENU/SELECT to bring up the Main menu.
3. Point to and select *Options.*
4. Point to and select *System Test.* Follow the on-screen directions after the test is completed.
5. If your system does not pass the system test, check any of these potential trouble areas: cabling, pointing the satellite dish, phone connection, and access card.

WARRANTY INFORMATION

PANASONIC
Digital Satellite Systems
Limited Warranty

Matsushita Consumer Electronics Company (referred to as "The Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA from the date of original purchase in the event of a defect in materials or workmanship as follows:

Parts — New or rebuilt parts in exchange for defective parts for one (1) year from the date of original purchase.

Labor — Mail-in service for ninety (90) days from the date of original purchase for all parts, except for in-home service on the LNB for 90 days from the date of original purchase. After the ninety (90) day labor warranty period, purchaser pays for all labor charges.

Batteries (if included) — New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days from the date of original purchase. Non-rechargeable batteries are not warranted.

To obtain service in the USA during the warranty period call toll free:

1-888-PANA-DSS
(1-888-7161-377)

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship and does not cover normal wear or cosmetic damages. The warranty does not cover damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, set-up adjustments, improper operation or maintenance, customer instruction, alteration, line power surge, lightning damage, signal reception problems, modification, improper voltage supply, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than an authorized factory office, restaurant, or other business or rental use of the product, or service by anyone other than an authorized factory Servicenter, or damage that is attributable to acts of God.

Service calls which do not involve defective materials or workmanship as determined by the warranty, in its sole discretion, are not covered. Cost of such Service Calls are the responsibility of the purchaser.

Limits and Exclusions

There are no express warranties except as listed above.

PANASONIC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the company address indicated above.

WARRANTY INFORMATION

PANASONIC

Digital Satellite Systems

Service Directory

Operation Assistance • Diagnostic Assistance • Warranty Service

Call Panasonic on our toll-free telephone number when you need assistance with installation, hook-up, operational or service information. To expedite your technical support call, please have your model, serial number, and date of purchase available:

1-888-PANA-DSS
(1-888-7161-377)

8:00 a.m. - 10:00 p.m. Monday - Friday, Eastern Standard Time
10:00 a.m. - 10:00 p.m. Saturday and Sunday, Eastern Standard Time

In the event that our technical representatives are unable to quickly resolve your problem over the telephone, Panasonic can provide a replacement receiver via a common carrier service. **For complete details please read the Digital Satellite System Replacement Program.**

Accessories Purchase

Contact your local Panasonic dealer or dial toll free:

1-800-332-5368 (Consumer Orders Only)

6:00 a.m. - 6:00 p.m. Monday - Friday, Pacific Standard Time

6:00 a.m. - 10:30 a.m. Saturday, Pacific Standard Time

(Visa, Mastercard, Discover Card, Check, or Money Order)

Parts Distribution Locations

To locate a parts distributor in your area (within the USA), dial toll free:

1-800-545-2672

24 hours a day, 7 days a week

Regional Customer Care Departments

EAST (PCE)
2221 Cabot Blvd. West
Suite A
Langhorne PA 19047
Phone (215) 741-0676
Fax (215) 750-6492

COVERS:
CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, DC, WV

EAST (PCE)
1225 Northbrook Parkway
Suite 2-390
Suwanee GA 30174
Phone (770) 338-6860
Fax (770) 338-6548

COVERS:
AL, FL, GA, MS, NC, SC, TN

CENTRAL (PCC)
1703 North Randall Road
Elgin IL 60123
Phone (847) 468-5530
Fax (847) 468-5528

COVERS:
AR, IL, IN, IA, KS, KY, LA, MI, MN, MO, NE, ND, OK, SD, TX, WI, OH

WEST (PCW)
6550 Katella Avenue
Cypress CA 90630
Phone (714) 373-7440
Fax (714) 373-7447

COVERS:
AK, AZ, CA, CO, HI, ID, MT, NV, NM, OR, UT, WA, WY

WARRANTY INFORMATION

PANASONIC

Digital Satellite Systems

Replacement Program

Matsushita Consumer Electronics Company (referred to as "Panasonic") offers a customer support toll free telephone number to assist you with information regarding your Panasonic Digital Satellite System. Our technical representatives are available seven days a week (excepting holidays) to help you with installation, hook-up, operational and service questions. To expedite this technical support, please have your model, serial number (on the rear of the receiver) and date of purchase available when you call Panasonic's toll free number:

1-888-PANA-DSS
(1-888-7161-377)

If you are experiencing a technical problem, (inclement weather and other factors may affect the quality of your reception) our representatives will attempt to diagnose your problem(s) over the telephone. In the event that our technical representative are unable to resolve your problem, Panasonic will repair your receiver or provide you with a reconditioned replacement receiver by shipping it common carrier, as follows:

In-warranty* after sales support

Panasonic will repair or replace defective receivers that are in-warranty with a new or reconditioned receiver, (inclusive of all labor and parts), free of charge, for the first ninety days after date of purchase. After the ninety day period and up to the first year anniversary date of the purchase of the receiver, Panasonic will exchange, free of charges, replacement parts for all defective parts. During this period of time the customer pays the current labor rates to replace the defective parts. Panasonic will pay for all in-warranty shipping charges the first year after date of purchase.

If your receiver qualifies for in-warranty service, Panasonic will arrange for a new or reconditioned replacement receiver to be shipped by a common carrier Monday through Friday, within the 48 contiguous states, free of charge. The Customer Support Replacement Program is not available in Hawaii and Alaska because of reception problems due to the satellite location.

The replacement receiver will be reconditioned to factory specifications, and inspected before shipment. You can keep this replacement in exchange for your original receiver. The original receiver must be returned to Panasonic, using our self addressed label, along with a copy of your purchase receipt and a short description of the problem. The remote control and access card should not be sent to us unless you are instructed to do so.

If you decide you want your original receiver repaired, Panasonic will repair the receiver and return it to you. The repair time will be ten (10) business days. Carefully pack and seal your receiver in its original carton and packing material, properly insure the receiver for its full value and prepay a reliable common carrier. The technical representative will give you the mailing address. If you choose a replacement receiver, Panasonic will arrange to have your original receiver picked up by a common carrier.

Out-of-warranty* after sales support

If your receiver is out-of-warranty and you choose the replacement program, you will receiver a new or reconditioned receiver. You will be charged an inclusive rate for labor and parts for the repair of the original receiver. Our technical representatives will inform you of the receiver replacement program's repair rates. The shipping charges related to the repair are not included in the repair rate. The shipping charges include; (a) the common carrier delivery for the replacement receiver to you, (b) the shipping of the original receiver back to Panasonic.

WARRANTY INFORMATION

If you want your original receiver repaired, Panasonic will repair it and return the receiver to you. You must carefully pack and seal your receiver in its original carton and packing material, properly insure the receiver for its full value, and pre-pay a reliable common carrier. You are responsible for damages to the receiver if not packed and shipped as recommended by Panasonic. Our technical representative will inform you of Panasonic's inclusive labor and parts rate and provide you the repair depot mailing address. If you decide you want a replacement receiver, Panasonic will arrange to have your original receiver picked up by a common carrier. Panasonic will charge you for the common carrier services.

Exclusions to the Replacement Program

Panasonic is not responsible for: installation, mounting and set-up of the antenna, and interconnect wiring of the system.

To receiver information regarding recommended installers and/or authorized servicers for the antenna dish call Panasonic's toll free number.

Receiver replacement program requirements

1. Give our representative a valid credit card number. Your credit card status will be verified prior to shipping the replacement receiver. In the event that you do not adhere to the terms of this replacement contract your credit card account will be charged for all applicable costs that were incurred in the testing, repair, replacement and shipment of the original and replacement receivers.

   Acceptable credit cards:

   - American express (Optima)
   - Visa.
   - Discover
   - Master card

2. Upon receipt of your replacement receiver, immediately pack, and enclose a copy of your proof of purchase (if applicable), a brief description of the problem, affix the self addressed label and self your original receiver in the replacements receiver's shipping carton. There are no charges associated with in-warranty labor. Charges for in-warranty parts replacement are explained above. If you receiver is out-of-warranty, you will be charged for all applicable shipping charges. In all cases the receiver must be packaged in the same carton and manner as the replacement receiver, utilizing the existing packing materials. You must make your receiver available for carrier pick-up within 10 days after the receipt of the replacement receiver. If a receiver is not available for pick-up, you will be responsible for pre-paid insurance and shipment of the replacement receiver back to Panasonic.

   Damage incurred during shipment due to improper or inadequate packing, or loss of receiver, are your responsibility and will be charged to your credit card as an out-of-warranty cost.

   If a receiver is not returned to Panasonic within 10 business days after shipment of the replacement receiver, your credit card account will be charged at Panasonic's suggested retail price of the replacement receiver.

3. Any receiver that is replaced without proof of purchase will be subject to out-of-warranty charges. Any receiver that is replaced, but does not meet the terms and conditions of the limited warranty will be subject to the out-of-warranty charges that are outlined in this replacement program.

Replacement program is subject to termination at any time without advance notice.

*See **terms and conditions** in the limited warranty.

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FCC REGISTRATION INFORMATION

Your DSS® equipment is registered with the Federal Communications Commission and is in compliance with parts 15B and 68, FCC Rules and Regulations.

1. Notification to the Local Telephone Company.

On the bottom of this equipment is a label indicating among other information, the FCC Registration number and Ringer Equivalence Number (REN) for the equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the number of devices you may connect to your telephone line and still have all these devices ring when your telephone number is called. In most (but not all) areas, the sum of the RENs of all devices connected to one line should not exceed 5. To be certain of the number of devices you may connect to your line as determined by the REN, you should contact your local telephone company.

Notes: This equipment may not be used on coin service provided by the telephone company.

Party lines are subject to state tariffs, and therefore, you may not be able to use your own telephone equipment if you are on a party line. Check with your local telephone company.

Notice must be given to the telephone company upon permanent disconnection of your DSS® equipment from your line.

2. Rights of the Telephone Company.

Should your equipment cause trouble on your line which may harm the telephone network, the telephone company shall, where practicable, notify you that temporary discontinuance of service may be required. Where prior notice is not practicable and the circumstances warrant such action, the telephone company may temporarily discontinue service immediately. In case of such temporary discontinuance, the telephone company must: (1) promptly notify you of such temporary discontinuance (2) afford you the opportunity to correct the situation and (3) inform you of your right to bring a complaint to the Commission pursuant to procedures set forth in Subpart E of Part 68, FCC Rules and Regulations.

The telephone company may make changes in its communications facilities, equipment, operations of procedures where such action is required in the operation of its business and not inconsistent with FCC Rules and Regulations. If these changes are expected to affect the use or performance of your telephone equipment, the telephone company must give you adequate notice, in writing, to allow you to maintain uninterrupted service.

Radio Interference

This equipment has been type tested and found to comply with the limits for a Class B Digital Device in accordance with the specifications in Part 15 of FCC Rules. These rules are designed to provide reasonable protection against radio and television 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 interference to radio or television reception (which you can determine by turning the equipment off and on), try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna (that is, the antenna for radio or television that is "receiving" the interference).
- Change the position of the DSS® satellite receiver with respect to the radio or television equipment that is receiving interference.
- Move the DSS® satellite receiver away from the equipment that is receiving interference.
- Plug the DSS® satellite receiver into a different wall outlet so that the DSS® satellite receiver and the equipment receiving interference are on different branch circuits.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions. Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio/TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Please specify stock number 004-000-00345-4 when ordering copies.

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