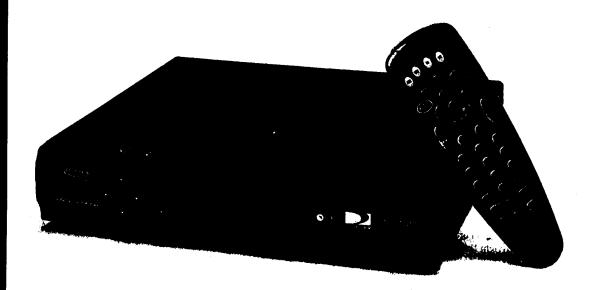


Model: HIRD-D45

Platinum Edition



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

DIRECTV System Programming—For subscription information, or to resolve problems related to DIRECTV System programming, call the service providers, including DIRECTV at 1-800-DIRECTV (347-3288) and USSB at 1-800-204-USSB (8772).

DIRECTV System Hardware and Installation—To arrange for professional installation of your DIRECTV System, ask questions, or to resolve problems related to your DIRECTV System, contact your dealer. If additional information is needed, please contact the Customer Care Center toll free at 1-800-274-8995.

Hughes Customer Care Center 1-800-274-8995

Subscriptions and Pay Per View 1-800-DIRECTV or 1-800-204-USSB

### PLEASE MAKE NOTE OF THE FOLLOWING INFORMATION FOR WARRANTY

System Model #: HSYS
Receiver Model #: HIRD-D4
Receiver Serial #:
Access Card #:
LNB Serial #:

### IMPORTANT SAFETY INSTRUCTIONS

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

#### INSTALLATION

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

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

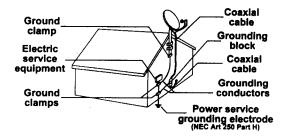
Ventilation—Do not block the ventilation slots and openings in the case. Do not block these openings by placing the product on a bed, sofa, rug, or other similar surface. Do not place this product near or over a radiator or heat register, or in à built-in installation such as a bookcase or rack unless proper ventilation is provided.

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

Accessories—To avoid personal injury or damage to the equipment, do not place the digital satellite receiver on any unstable cart, stand, or table. Any mounting of the product should follow the manufacturer's instructions.

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

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



# EXAMPLE OF ANTENNA GROUNDING ACCORDING TO THE NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN "RADIO AND TELEVISION EQUIPMENT"

Water and Moisture—Do not use this DIRECTV System product near water or moisture.

Television Antenna Information—Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer. Do not locate the outside antenna system in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits as contact with them might be fatal. If an outside antenna is connected to the digital satellite receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the NEC, NFPA No. 70 1987, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

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

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

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

#### SERVICE

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

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

- When the power supply cord or plug is damaged.
- If liquid has been spilled on, or objects have fallen into, the digital satellite receiver or it has been exposed to water.
- If the DIRECTV System 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 DIRECTV System product to its normal operation.
- If the DIRECTV System product has been dropped or the cabinet has been damaged.
- When the DIRECTV System product exhibits a distinct change in performance.

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

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

### THESE ARE DEFINITIONS FOR ALERTS USED IN THIS MANUAL



#### WARNING or CAUTION

Where you see this alert symbol and the WARNING or CAUTION heading, strictly follow the warning instructions to avoid personal injury.



#### DANGER

Electric shock hazard: Where you see these symbol and the DANGER heading, strictly follow the warning instructions to avoid electric shock injury



#### CAUTION

SK OF ELECTRIC SHOCK DO NOT OPEN



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

#### THESE ALERTS APPEAR IN THIS MANUAL

#### WARNING



For your own safety, follow these important safety rules:

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

#### DANGER



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

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

#### CAUTION



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

# FEDERAL COMUNICATIONS COMMISSION (FCC) REGULATORY INFORMATION

Federal Communications Commission (FCC)—The DIRECTV System complies with both Part 15 and Part 68 of the FCC rules.

#### Part 15 compliance-

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

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

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

#### Part 68 compliance-

- The FCC has established Part 68 of the FCC Rules, which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on coin lines or party lines.
- If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is

not done, the telephone company may temporarily disconnect service.

- 3. The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.
- If the telephone company requests information on what equipment is connected to their lines, inform them of:
  - the telephone number this unit is connected to.
  - the ringer equivalence number (REN). The number can be found on a label located on the bottom of the equipment.
  - the Universal Service Order Code (USOC) jack required. This equipment requires a USOC RJ11 jack.
  - the FCC registration number. The number can be found on a label located on the bottom of this equipment.

### A FIRST LOOK AT THE DIRECTV DIGITAL SATELLITE RECEIVER



Congratulations! You've selected one of the most advanced digital video and audio components available today. You now have the capability to receive hundreds of channels of video programming, CD-quality audio, and data services.

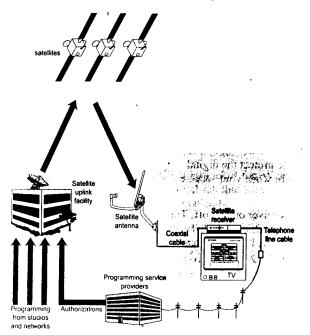
#### **What You Should Do First**

Your DIRECTV System is both a sophisticated technical product and an easy-to-operate source of entertainment. You should complete the following steps to achieve the greatest performance from your system:

- Read this manual to familiarize yourself with the system.
- Install the digital satellite receiver.
- Install your satellite dish antenna and cable.
- Align the satellite dish antenna.
- Arrange for programming from the service providers.
- Enjoy endless hours of TV entertainment.

#### **How Does All This Work?**

Many film studios, news organizations and other broadcasters provide their video, audio, and data



services to DIRECTV and USSB uplink centers. These service providers then digitally transmit the signals 22,300 miles in space to a grouping of three high-powered satellites built by Hughes Electronics. These satellites are co-located in geosynchronous orbit. This means that after installation of the DIRECTV System, which includes aiming the satellite dish antenna at the satellites, no adjustment will be necessary to change channels because everything comes from the same location in the sky. The satellite dish antenna never has to track the satellite, so there's no waiting for the picture to come in. The digital signals are beamed back to earth where they are received by your satellite dish antenna. The signals then go into the digital satellite receiver where they undergo extensive processing to determine if you are authorized to access them. The signals are then reconverted into high-quality video and audio that you can enjoy on your television. The telephone connection is used by the digital satellite receiver to report back to the service providers any purchase activity.

The DIRECTV network



### **DIRECTV System Components**

There are three main components of your DIRECTV System. They are the satellite dish antenna, the digital satellite receiver, and the remote control. Take a few minutes to read about each one.

#### **The Satellite Dish Antenna**

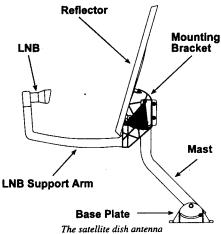
The satellite dish antenna is the component that receives the digital signals. It must be mounted to a solid outdoor surface that allows a clear view of the southern sky.

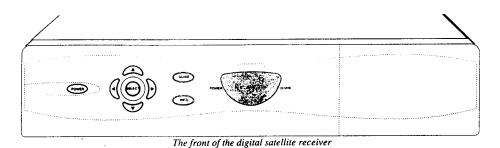
The large circular part is known as the reflector. At the end of a tubular arm that is attached to the satellite dish antenna, there is a low noise block (LNB) down converter. The mounting bracket and base make adjustments easy during installation. Once the satellite dish antenna has been properly positioned to point towards the satellites, you should never need to adjust it again.

Satellite dish antennas will have either a single output LNB or a dual output LNB. The single output LNB has one connection, allowing use of a single digital satellite receiver. The dual output LNB has two connections, allowing use of two digital satellite receivers, or more if you are using a multi-switch.

### **The Digital Satellite Receiver**

This digital satellite receiver is one of the most compact available today. Nearly every feature of the digital satellite receiver can be accessed from the front panel keys.





Your access card is located behind the door on the right side of the digital satellite receiver. This

special card contains information about your level of service and holds pay per view purchase activity. This card should not be removed except to protect the digital satellite receiver from unauthorized use or to replace the card when your service provider (DIRECTV or USSB) supplies a new one.

The power key (\*\*OWE\*\*\*) is used to turn the digital satellite receiver on and off. The power light (located in the center) will illuminate when the unit is on. Any off-air signal, such as cable TV or local programming, connected to the IN FROM ANT jack is passed through to the OUT TO TV jack when the digital satellite receiver power is off.

There is another light, also located in the center area, which indicates when the receiver is utilizing the D-VHS capability.



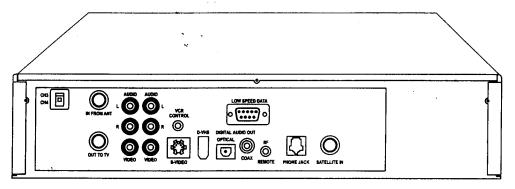
The DIRECTV System Access Card (artwork may vary)

The information key ( ) is used to display descriptions of DIRECTV System programs and channels on your TV screen.

At any time, pressing the program guide key (GUIDE) will initiate the display of the on-screen guide, where you can see a listing of all available programs, or will display the GUIDE MENU if pressed while displaying a program guide.

The four directional keys, up (♠), down (♥), left (◄), and right (▶), are used to move the highlight around the program guide and menus. They also provide access to the OneLine™ Guide when menus aren't displayed.

The select key (SELECT) is used to access a highlighted guide or menu item.



The rear of the digital satellite receiver.

The rear of the digital satellite receiver has numerous jacks for connection to your audio/video entertainment system. You will also find the power cord permanently connected to the back.

The **SATELLITE IN** F-type jack is for connecting the cable from your satellite dish antenna to the digital satellite receiver. Be sure that you use RG-6 cable only.

The IN FROM ANT F-type jack is an input where you can connect the cable from an RF terrestrial source such as an off-air antenna or cable TV service.

The **OUT TO TV** F-type jack is an RF output which you may connect to your TV or VCR (depending on your entertainment system). Note that the CH3/CH4 switch on the upper left enables you to select the channel that DIRECTV System programming will appear on. Set you TV to match this.

The phono-type AUDIO output jacks, labeled and color coded (L is white, R is red) to indicate left and right, can be used for connection to your TV, VCR, or audio system. The phono-type composite VIDEO output jack is color-coded yellow. You may use this jack for connection to your TV or VCR. The multiple-pin S-VIDEO jack is for high-quality output of DIRECTV System video. Use this jack to achieve the clearest picture for your TV or VCR. Only newer high-end TVs, SVHS VCRs and Hi8 VCRs support S-video connections.

The VCR CONTROL mini-jack is for connecting the VCR control cable included with the system. With this cable, the digital satellite receiver can interface with most popular brands of VCRs to record selected programs automatically.

The **D-VHS** jack is for connecting a digital A/V cable for use with a D-VHS digital VCR. When connected to a D-VHS VCR, the additional D-VHS features described in this manual become active and the standard **VCR CONTROL** mini-jack is disabled.

There are two **DIGITAL AUDIO OUT** connectors. One is **OPTICAL** and the other is **COAX**. They both provide the same signals for connection to a Dolby Digital decoder.

The **RF REMOTE** jack is provided for future accessory use.

The standard RJ-11 modular PHONE JACK is for connecting the digital satellite receiver to your phone line. This phone connection is necessary to access certain program offerings from your service providers. Any calls generated by the digital satellite receiver are toll free. The telephone line connection will not normally interfere with your telephone operation. The digital satellite receiver will, however, call a toll-free number briefly to report any pay per view programs that may have been purchased.

#### **The Remote Control**

The HRMC-5 remote control can control your DIRECTV System and most TV brands, as well as VCRs and many other auxiliary devices such as cable boxes, amplifiers, and laser disc players.

The remote control uses an invisible infrared light to send signals to your components when you press the keys. You must aim the remote control toward the component for it to receive the command.

The mode keys across the top of the remote control enable you to specify the device you intend to control. This is important since many devices share the same keys, such as the key and the numeric keys. You must press the appropriate device key before

pressing a command key to make sure the remote control sends the right signal to the right device. The only keys that deviate from the rule are the blue keys, as they are always associated with the digital satellite receiver.

The desired with the digital satellite receiver.

The arch of keys immediately below the power and mode keys control frequently used functions. These include special action ( ), information ( ), guide ( ), exit ( ), and favorite ( ) keys.

The key is unique because it does nothing by itself. Pressing it displays the action icon in the upper left corner of your screen for a few seconds. During that time, other keys may be pressed to access special functions indicated in yellow above the keys. Each will be described later in this manual. The following chart describes the key functions for easy reference:

Key Combination	Feature	Function
ACTICA GUIDE	MENU	Displays the MAIN MENU from any screen
HCTICH FAV	LIST	Displays the CHANNEL LISTS screen from any screen
ACTION ON	SERVICES	Displays the Alternate Services menu while in video
40000	MOVIES	Filters the on-screen guide to movies only
ACTION 2	SPORTS	Filters the on-screen guide to sports only
ACTION 3	NEWS	Filters the on-screen guide to news only
ACTION ()	ALL	Resets the on-screen guide filters
ACTION SELECT	D-VHS	Initiates the D-VHS control panel for D-VHS equipped systems



The HRMC-5 remote control

Four directional keys will cause the on-screen highlight to move in the direction you want. The key positions will be referred to as  $\blacktriangleleft$ ,  $\blacktriangleright$ , and  $\blacktriangledown$ .

The select key (SELECT) is one of the most important keys. Pressing the key will tell the digital satellite receiver that you wish to choose the highlighted item.

### A FIRST LOOK AT THE DIRECTV DIGITAL SATELLITE RECEIVER

The remaining keys are either digital satellite receiver-specific keys and common device keys including numbers, channel up and down, etc. The functions of these keys change depending on the device currently selected.

Please refer to "Controlling the Digital Satellite Receiver" for more remote control capabilities and "Programming Your Remote Control" for teaching your remote control about your other audio/video components.

Descriptions and details of each individual key will be given in the appropriate sections throughout this manual.

# SETTING UP YOUR DIRECTV SYSTEM

This chapter provides step-by-step instructions for setting up your DIRECTV System and connecting it to your television or entertainment system. As you are reading this now, it is assumed that you have already opened and unpacked the box.

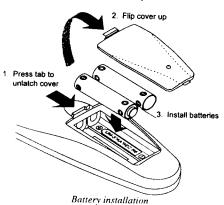
The carton includes the digital satellite receiver itself, an access card (already installed in the digital satellite receiver behind the door), the HRMC-5 remote control (batteries included), a telephone cable, an RF cable, a A/V cable, and this manual. Complete systems also include the parts to assemble a satellite dish antenna complete with a single output or dual output LNB. Contact your dealer if anything is missing or damaged. Note that hardware and cables needed for installation are not included. Please save all packing materials until the installation of your system is complete in case anything needs to be returned.

You now need to decide where you want to place the digital satellite receiver. Choose a location near your TV where the power cord or cables will not be inadvertently disconnected. The location should also be well ventilated. Do not set electronic components or other objects (including this manual) on top of the digital satellite receiver or otherwise block its cooling vents.

It is recommended that you have your DIRECTV System professionally installed. This is due to safety issues, electrical codes, and assurance of a quality installation. If you should choose to perform the installation yourself, please pay special attention to the precautions in the front of this manual and refer to the chapter "Installing and Pointing Your Satellite Dish Antenna." You may also want to obtain the *Do-It-Yourself Installation Kit*, sold separately.

# **Installing Remote Control Batteries**

Before the remote control can be used, the supplied AAA batteries need to be installed. First, unsnap



the battery cover from the back of the remote control. Install each fresh battery as shown, making sure that the + and - on each battery line up with the marks in the battery compartment. Next, snap the cover back onto the remote control. Finally, press a key on the remote control to verify that one of the mode keys light up, indicating that it is operating properly. If a key doesn't light, make sure that the batteries are fresh and that each is inserted in the right direction.

Refer to "Programming Your Remote Control" for setting the codes to control the devices in your entertainment system.



There are a number of ways to connect the digital satellite receiver, depending on the other audio/video equipment you wish to use.

You may need to purchase additional connectors and/or cables to suit specific needs from your dealer or electronic hardware stores. Choose which hookup method to use based on:

- The capabilities of your TV and VCR.
- Your desire to pass local programming through the digital satellite receiver.
- Any other devices you want to include in the system (stereo, second VCR, etc.).

Before attempting to connect anything, position yourself so you are looking at the back of your components. Note the various input and output receptacles, their shapes, and how they are labeled. Then read through the rest of this hookup section before going ahead with actual hookup.

Do not turn on the power yet. For your safety, make sure the digital satellite receiver, TV, VCR, and any other devices to be connected are unplugged from the wall outlet while hooking them up.

### **Hook Up the Phone Line**

The first step is to connect the phone line. This can be done by plugging one end of the provided telephone cable into the PHONE LINE jack on the back of the digital satellite receiver and the other end into a telephone wall jack. If you do not have a telephone jack within reach, you may have to have a new one installed or reorient the digital satellite receiver to be within reach of a telephone wall jack.

The Phone line and jac

### Hook Up the Audio/S-video Signals

Only the newest, high-end TVs and VCRs have S-video inputs. VCRs that support S-video include Hi8 and SVHS types. Look on the back of your TV and VCR for this special jack. It will probably be labeled S-VIDEO IN. If you are unsure, you can see the type of connector that you are looking for on the back of the digital satellite receiver. If neither the TV nor VCR has this jack, proceed to the "Hook Up the Audio/Video Signals" section.





This hookup will give you the sharpest picture of any of the hookups. Also, this hookup will allow you to view DIRECTV System programming and local broadcast simultaneously on TVs with "picture in picture" (PIP) feature.

When using this hookup, you cannot use the digital satellite receiver as a switch to choose between DIRECTV System programming and local broadcasts. Instead, you will use the input selection that your TV and/or VCR offers to select the source.

### If your VCR has S-video input...

use an S-video cable to connect the digital satellite receiver's S-VIDEO output to the S-video input on your VCR. Also connect one pair of the digital satellite receiver's audio outputs (Left and Right) to the audio inputs on your VCR.

### If your TV has S-video input...

connect an S-video cable from the S-VIDEO output (either from the digital satellite receiver if available or the VCR) to the S-video input on the TV. Also connect the left and right audio outputs from the same device that the S-video is coming from and connect them to the TV.

#### If you have a stereo system...

you may be able to achieve big speaker sound. See the "Hook Up to a Stereo System" section for the necessary connections.

If your hookup is complete...

move on to the "Finishing Up" section.

### Hook Up the Audio/Video Signals

Most high-end TVs and VCRs have phono-type audio and video inputs. Look at the back of your TV



The phono-type video cable and jack

and VCR for three jacks-possibly color coded yellow, white and red. They will be labeled something like IN (L and R), AUDIO IN, and VIDEO IN. If you are unsure, look at these connectors on the back of the digital satellite receiver. If you have no jacks like these on your TV or VCR, skip this section and proceed to the "Hook Up the RF Signals" section.

This video hookup will give you a clearer picture than an RF hookup. Also, this hookup will allow you to view DIRECTV System programming and local broadcast simultaneously on TVs that offer a "picture in picture" (PIP) feature...

When using this hookup, you cannot use the digital satellite receiver as a switch to choose between DIRECTV System programming and local broadcasts. Instead, you will use the input selection that your TV and/or VCR offer to select the source.

#### If your VCR has a video input...

use an audio/video cable to connect the digital satellite receiver's VIDEO output to the video input on your VCR. Also connect the pair of the digital satellite receiver's audio outputs (Left and Right) to the audio inputs on your VCR.

#### If your TV has a video input...

connect an audio/video cable from the VIDEO output (from either the digital satellite receiver, if available, or the VCR) to the video input on the TV. Also, connect the left and right audio outputs from the same device that the video is coming from and connect them to the TV.

#### If you have a stereo system...

you may be able to achieve big speaker sound. See the "Hook Up to a Stereo System" section for the necessary connections.

#### If your hookup is complete...

move on to the "Finishing Up" section.

### **Hook Up the RF Signals**

Look at the back of your TV and VCR for RF inputs. These may be labeled 75-OHM, 300-OHM, CABLE, FROM ANTENNA, VHF or UHF. These could appear either as a pair of screws or



an F-type connector as on the back of the digital satellite receiver.

The RF cable and jack

· If your TV or VCR does not have threaded F-type connectors you will need to obtain adapters which convert the round F-type RG-6 or RG-59 cable to the connectors on your TV and/or VCR. These are sold separately and should be available from your dealer or an electronics hardware store.

#### To connect your VCR...

use a coaxial cable to connect the OUT TO TV from the digital satellite receiver to the RF input section on your VCR. This is the first place where an adapter may be needed if your VCR doesn't have the Ftype connector.

#### To connect your TV...

connect a coaxial cable from the RF output (from either the digital satellite receiver's OUT TO TV, if available, or the VCR) to the RF input on the TV.

Set the channel 3/4 selector switch on the back of the digital satellite receiver to the channel that is not broadcast or has the weakest signal in your area. This will be the channel that you need to set your TV and/or VCR to for viewing or recording DIRECTV System programming.

You can also use the digital satellite receiver as a switch to select between DIRECTV System programming and local broadcasts. This can be accomplished by pressing the remote is in "SAT" mode. Also, you must connect your local signal, either from an antenna or cable service, to the IN FROM ANT on the back of the digital satellite receiver. If your antenna wire is not a coaxial type you will need an adapter as described earlier.

### If you have a stereo system...

you may be able to achieve big speaker sound. See the "Hook Up to a Stereo System" section for the necessary connections.

### If your hookup is complete...

move on to the "Finishing Up" section.

### **Hook Up to a Stereo System**

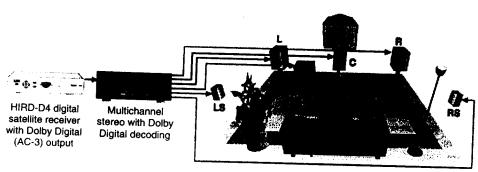
You can connect your digital satellite receiver to your stereo system to enjoy the high quality dynamic sound of Dolby Digital (AC-3), Dolby Pro Logic/stereo, and two-channel digital stereo.

Dolby Pro Logic Surround and standard stereo is the most common connection. For this application, simply connect the **AUDIO** outputs (Left and Right) from your digital satellite receiver to an available input on your audio system. First, look for an input labeled **AUX**. If you aren't using a compact disc player or laser disc player, you can use one of those inputs, if available. The only input that you should not use is one that is specified for a turntable/phonograph. Refer to the owner's manuals of the connected equipment to determine the proper settings needed so that the best sound can be heard.

The following applications require that your audio system is equipped with coaxial or optical digital inputs. Not all stereo equipment provides this type of input.

For two-channel digital stereo, connect one of the **DIGITAL AUDIO OUT** connectors. These are labeled **OPTICAL** and **COAX**. Before using the **OPTICAL** connector, you must remove the protective cover. Save this cover in case you ever need to transport your digital satellite receiver.

Warning: Before using the DIGITAL AUDIO OUT connectors with a standard PCM digital bitstream decoder/receiver, set the Dolby Digital option on the Advanced Preferences screen to be "Off." Failure to do this could result in a high level noise and could be harmful to your ears and equipment.



The Dolby Digital (AC-3) environment

The best quality sound can be achieved through the use of a 6-channel amplifier equipped with a Dolby Digital (AC-3) decoder or Dolby Digital (AC-3) processor. Unlike analog Dolby Surround with its single band-limited surround channel (usually played over two speakers), Dolby Digital features two completely independent surround channels, each offering the same full-range fidelity as the three front channels. As a result, true stereo surround effects can be achieved for an expanded sense of depth, localization, and overall realism.

### **Distributing the Video Signal to Distant Rooms**

There are several ways to distribute the digital satellite receiver's video to another room or throughout your home. The most direct way to achieve this is by running a cable from the OUT TO TV on the digital satellite receiver to the desired distant locations. Be aware that running this cable for very long distances or splitting the cable to multiple rooms will reduce the quality of the video and audio signal. In this case, you should use amplified splitters.

Other distribution systems are available. Some of these even offer distribution without additional wiring. Ask your dealer for advice as to what might best suit your needs.

### Finishing Up

You can mix and match the different hookups described above to suit your entertainment system's available connections. For example, you could connect the VCR using audio/video, while the TV is connected with the RF signal. Always try to achieve the highest quality and greatest flexibility available.

Once all connections have been completed, plug in the TV, VCR and digital satellite receiver to the wall outlet, appropriate extension cord, or surge protector. See Important Safety Instructions described in the front of this manual.

Note: If you have connected a VCR into your entertainment system in a way that routes the cables from the digital satellite receiver to your VCR before the signal reaches the TV, you may experience a distorted picture if you attempt to record a copy-protected program. These programs are identified by a "Can't Tape" symbol in the banner area of the screen. If this occurs, simply stop the recording process and your picture will automatically correct itself.

### Connecting the VCR Control Cable

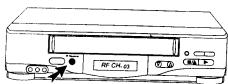
With the proper connections you can have the digital satellite receiver control your VCR for unattended recording. First, plug the VCR Control cable into the back of the digital satellite receiver. Then proceed to the next section to determine where the other end VCR of the cable should be attached.



The VCR Control cable and jack

### Finding the VCR's Remote Control Sensor

So that the digital satellite receiver can control your VCR, the emitter end of the VCR control cable



Look for indications of the remote control sensor

must be attached where the VCR's remote control sensor is located. On some VCRs this is labeled. You may also find a diagram in your VCR manual indicating the sensor position. It is commonly identifiable by a small dark plastic window. For reference, see the sensor on the digital satellite receiver located in the center.

If the sensor is not labeled or documented, you will need to scan the front of your VCR with your VCR remote control. Use the following procedure to accomplish this:

- Hold the VCR remote control about 1/2-inch from the front left side of your VCR.
- Slowly move the remote control to the right repeatedly pressing the remote control's power key on and off.
- Once your VCR responds to your pressing the remote control power, note the position. This should be the location of your VCR remote control sensor.



Scanning for the remote control sensor

Once the sensor position has been determined, temporarily attach the emitter to the area with a piece of tape until the system can be tested. Refer to the "VCR Setup" section in the chapter "The Digital Satellite Receiver's Menu System" to program and test the VCR Control feature.

Upon verifying that the VCR control is functioning properly you can remove the tape and permanently attach the emitter using the peel-and-stick backing. This attachment should not interfere with normal

### Remote Control Extender

Some systems may include a Remote Control Extender. Even if it is not included with your system, they are also sold separately. You would need to purchase the HRCE-20 that you can add to your remote control that came with your system. There are also packages, such as the HRCE-21 and HRCE-25 which includes an additional remote control.

With the Remote Control Extender, you can have complete control of your digital satellite receiver and other entertainment system components from anywhere inside of the house. It converts IR (Infra-Red) signals emitted by the remote control into a powerful radio signal which is then broadcast up to a distance of 150 feet to the receiver base station. No tools are needed to install the Remote Extender.

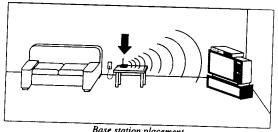
The Remote Control Extender consists of two components; the transmitter "nose cone" (which attaches to the front of the remote control), and the receiver "base station" (which is placed in the room where the HNS-brand digital satellite receiver is located).

### Receiver Base Station Installation

Place the receiver base station in the room where your digital satellite receiver is located. Choose a

location that is near an electrical outlet on an opposing wall to where your equipment is installed. Point the front of the base station towards the receiver. Try to use your remote control from your chosen location to confirm that it is within the operating "view" of your digital satellite receiver.

Plug the AC power adapter (included with your Remote Control Extender) in the wall outlet. Attach the small plug from the transformer into the jack on the receiver base station. The power light should illuminate. Extend the antenna fully. The Remote Control Extender base station is ready for use.



Base station placement

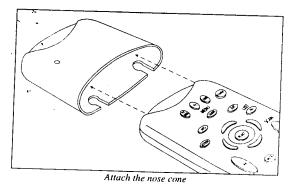
### Transmitter Nose Cone Installation

The Remote Control Extender nose cone has been designed to attach to the front of your HNS-brand

DSS remote control. Firmly press the nose cone onto the front of the remote control until it will be held in place by the bumps on the bottom.

Before the nose cone transmitter can function you will need to install the supplied battery. To do this, begin by simply opening the small door on the bottom of the nose cone. Install the battery noting the proper polarity (+/-). Then replace the door.

You are now ready to use your Remote Control Extender equipped remote control. You should find that using your remote control from another room will work just as though you were right in front of your digital satellite receiver and other entertainment equipment. Note that you



PAGE 2-6

do not need to point it towards the room for it to work. The signals are broadcast from the nose cone in all directions — even through floors, walls, ceilings and furniture!

### **Battery Replacement**

Your operating range will start to decrease as the battery life decreases. Replacement batteries are conveniently available at most electronic stores. To replace the battery, follow the directions above. Remember to dispose of the old battery properly.

BATTERY: Type mn21 12v or equivalent

# Setting the Address of your Digital Satellite Receiver and Remote Control

To avoid interference between your remote control and your neighbors that may have the same model remote control, you should change the address of your components. This is similar to choosing a channel on a cordless phone so that you and your neighbors don't hear each others' conversations.

See the chapter, "Programming Your Remote Control" for the instructions to accomplish this.

### Now You Can Turn It On

Once you have connected everything, you can begin powering up the components. Turn the TV on and set it to the DIRECTV System channel (3 or 4) or input (video or S-video). Do the same for the VCR, if applicable. Now turn the digital satellite receiver on. You will see the start-up screen for several seconds, followed by a black screen with the message at the bottom:

"Searching for satellite signal. To access related utilities, press

If so, this is good! If not, try pressing the key while the remote control is in "SAT" mode. If that doesn't work, check all of the connections.

You're well on your way to enjoying your DIRECTV System.

# CONTROLLING THE DIGITAL SATELLITE RECEIVER



Now it's time for you to take control. Take a few minutes to read through this chapter to begin to understand how to operate your system. Let's begin with a few simple rules. First, there is nothing that you can do, using the front panel keys or the remote control keys, which could harm the digital satellite receiver in any way. Once you understand the capabilities and options available in your receiver, you'll be able to undo any changes or settings that you make.

The next important rule is to have fun. The features of the digital satellite receiver are intended to make watching TV more enjoyable. It isn't necessary to know everything your system can do right away. Learn the capabilities a little at a time. As you use the digital satellite receiver, the techniques necessary to control it will become second nature.

# Front Panel vs. Remote Control Keys

The front panel provides all the basic controls needed to access and use the primary features of the digital satellite receiver. The remote control has additional keys to provide shortcuts or access to extended features of the digital satellite receiver. Most of the remote control keys can also be used to control other components in your entertainment system. For this reason, you must remember to press the sey, putting the remote control in digital satellite receiver mode, when you want to control the digital satellite receiver.

### **Basic Navigation**

The most common digital satellite receiver-related keys that you will use are  $^{\blacktriangle}$ ,  $^{\blacktriangledown}$ ,  $^{\clubsuit}$ , and Felec. Four distinct keys on the digital satellite receiver front panel represent the direction keys. On the remote control, the direction keys are represented by the top, bottom, left and right keys surrounding the Keys. These keys are primarily used to move the highlight (also known as a cursor) around the screen. The Key should be pressed to indicate that a highlighted item is the one that you wish to choose.

Another key you will be using frequently is the wey, located on both the front panel of the digital satellite receiver and on the remote control. This key is used when you want to display the current on-screen guide. Once you are in the guide, pressing the while a program title is highlighted will display the Guide pop-up menu.

Another key appearing on both the front panel and the remote control is the wey. This key is used to retrieve descriptive information about a currently airing event and to provide access to scheduling information (and purchasing information for pay per view) about highlighted programs in the on-screen guide.

The final key that appears on both the remote control and the front panel is the \*\*POWER\*\* key. Make sure the remote control is in DIRECTV System mode for the \*\*POWER\*\* key to apply to the digital satellite receiver. When you power the digital satellite receiver off, it has not actually stopped using electricity. Rather, it goes into a standby mode which enables it to continue monitoring data sent from the service

providers, call in status reports to the service providers, start and stop your VCR for programs you have scheduled, receive messages, and perform other background activities. The only apparent changes occurring in the standby mode are that the video goes black, the IN FROM ANTENNA connector signals are passed through to the OUT TO TV connector, and the power light is off.

There are three keys on your remote control that most people use frequently. They are the AND, and Republic keys.

After you have established favorite channel lists, as described in the chapter "The Digital Satellite Receiver's Menu System," you will want to cycle through them quickly and easily. Do so by pressing the key. Each press will advance to the next list of channels. After stepping through the favorite lists it will cycle back to "All Channels."

At any time, you can exit the on-screen guide by selecting *Video* in the Guide pop-up menu. An even faster way is to press the key.

The PUT key will switch between DIRECTV System programming and local broadcasts.

Knowing these few keys should enable to navigate through almost every digital satellite receiver feature and menu.

### INSTALLING THE SATELLITE DISH ANTENNA

There's a cluster of satellites way out there in space, and just as a telescope is pointed at a star, you need to point your satellite dish antenna at the satellites. In this chapter we will explain the basic process for determining where to mount and how to point your satellite dish antenna.

Read the contents of this chapter, as well as the important safety information in the front of this manual. These instructions are intended for an installer experienced in performing the various tasks described here. Depending on how you intend to install the antenna, you may be required to:

- Climb a ladder and work on your roof.
- Use a power drill to drill holes in your house.
- Determine if there are water pipes, electrical wiring, or gas lines hidden in the walls near where you will be drilling.
- Route coaxial cable through the foundation wall, under floors, and through interior walls.
- Ground the antenna and coaxial cable as recommended in the National Electrical Code (published by the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).

If you are unsure about your ability to perform these tasks or comply with installation requirements, contact your DIRECTV System dealer for information regarding professional installation.

Successfully installing and obtaining the satellite signals can be a time consuming and tedious task. For that reason, it is highly recommended that you contact a professional installer to get you up and running. The warranty covering your DIRECTV System assumes professional installation and may not apply in self installation situations since improper installation could damage the various components or cause undesired performance.

Your satellite dish antenna will need to be pointed at a satellite cluster located 22,300 miles in orbit above the equator. To aim the satellite dish antenna at the satellites you need to know the azimuth and elevation angles. The digital satellite receiver will assist you in determining these angles. If you see the message:

"Searching for satellite signal. To access related utilities, press

press the Key. Otherwise, press keys in the following order to navigate to the INSTALLATION screen:

- GUIDE to display the MAIN MENU
- SELECT to display the SETUP MENU
- to display the INSTALLATION screen



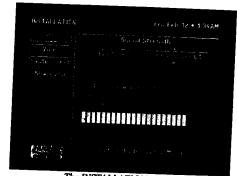
### **Determine Where to Point Your** Satellite Dish Antenna

### The INSTALLATION screen

When you press you will see a screen that assists you with the satellite dish antenna pointing and signal strength utilities.

Move the highlight to the *Position* button and press SELECT. You will need to determine your location by either ZIP code or by your latitudinal and longitudinal position. Press the ♠ or ▼ keys on the remote control or receiver front panel until your preferred selection is highlighted. Then press SELECT

You will now see a pop-up panel with space to enter your information. Enter your location. If you are using the remote control, press the key, followed by the five appropriate digits. From the remote control or receiver front panel you can also use the ♠ or ▼ keys to increase or decrease the highlighted digit value, and the ightharpoonupkey to advance to the next digit. Use the ₹ key to back up to correct any mistakes. When you are finished, highlight the OK button and press **SELECT** to continue.



The INSTALLATION screen

### **ALIGNMENT RESULT Pop-up Panel**

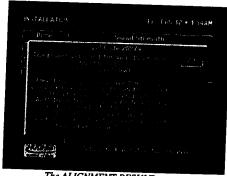
The ALIGNMENT RESULT will display the proper elevation and azimuth for pointing the satellite dish antenna calculated from the information you entered.

Take a moment to write down the pointing results.

**ELEVATION:** 

AZIMUTH:

The values displayed are fairly accurate; however some fine-tuning may be necessary. Use these values when choosing a mounting location for your satellite dish antenna and remember that you will need an unobstructed view in that direction.



The ALIGNMENT RESULT screen

### **Choosing the Antenna Installation Site**



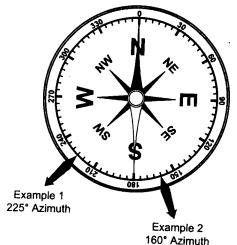
#### WARNING

For your own safety, follow these important safety rules:

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

Perform the following steps to select the best site to install the antenna:

- 1) Go to the location where you plan to install the antenna.
- 2) Using a compass like the one shown, hold the compass level so that the needle can rotate

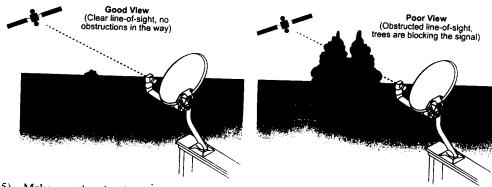


freely. When the needle stops rotating, it will be pointing north. Doing so carefully so as not to disturb the needle, rotate the body of the compass so that the 0° or N marks printed on the compass align with the painted end of the needle. The compass is now aligned with magnetic north.

Note: Large metal structures, such as air conditioning units and steel beams near the compass may greatly reduce its accuracy. If you are near such structures, move several feet away and repeat the measurement to verify the readings.

- 3) Draw an imaginary line from the center of the compass to the azimuth value you recorded above. This is the direction for pointing the satellite dish antenna toward the satellites. Use a rock or some other object to mark the location where you are standing; then pick a landmark in the distance that aligns with the magnetic azimuth bearing, or mark the azimuth in some way.
- 4) Verify that there are no obstructions (such as buildings or trees) blocking the view to the satellite, as shown in the diagram.

Remember that trees that are small now or do not have leaves could grow to ultimately block the clear line of sight.



 Make sure that the site you have chosen is not where people or equipment could hit the satellite dish antenna.

#### DANGER



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

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

If you decide to install the satellite dish antenna yourself, we recommend you purchase the Do-It-Yourself Installation Kit. It contains many items you will need to complete most installations.

You will need some of the following tools, depending on your installation:

- Electric drill
- Tape measure
- Wheelbarrow or concrete mixing box

- Drill bits (1/8-inch, 3/16-inch, 1/2-inch masonry)
- Wrenches (3/8-inch, 7/16-inch, or adjustable)
- Hacksaw

- Carpenter's level
- adjustable)

   Hammer
- Sledge hammer

- · Pencil or chalk
- Hole digging tools
- Flat blade screwdriverPhillips screwdriver

Confirm that you have all of the satellite dish antenna kit components.

- Steel reflector (1)
- ¼-inch nuts (5)
- ¼-20 x ½-inch grounding bolt (1)

Mast / Base plate (1)

LNB support arm (1)

• Retainer screw (2)

• LNB (1)

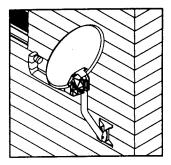
Cable clip (1)Flat head screws (4)

If you are missing any parts contact the Customer Care Center at 1-800-274-8995.

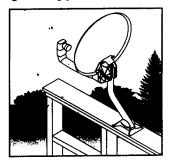
### **Selecting a Mounting Option**

Now that you have chosen where you want to install your satellite dish antenna, you need to select the appropriate mounting. Use the options described below to determine the section of this chapter that you should advance to.

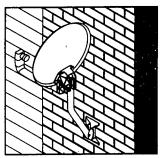
All installations require grounding per NEC 810-15 and NEC 820-33.



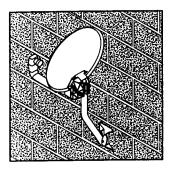
Installing the satellite dish antenna on the side of your house. Do not install on vinyl or aluminum siding. See the section titled "Installing the Satellite Dish Antenna Onto a Wooden Surface."



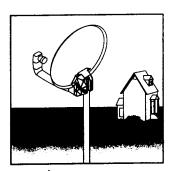
Installing the satellite dish antenna on the rail or floor of a deck. See the section titled "Installing the Satellite Dish Antenna Onto a Wooden Surface."



Installing the satellite dish antenna on a brick surface. See the section titled "Installing the Satellite Dish Antenna Onto a Brick Surface."



Installing the satellite dish antenna on a cinder block or masonry surface. See the section titled "Installing the Satellite Dish Antenna Onto a Cinder Block Surface."



Installing the satellite dish antenna on a metal pole. See the section titled "Installing the Satellite Dish Antenna Onto a Metal Pole."

Note: If you will be installing the satellite dish antenna base plate and mast using a mounting configuration other than the ones recommended here, do so as follows:

- 1. Install the base plate and mast.
- 2. Verify that the mast is level.
- 3. Go to the section titled "Attaching the Reflector Onto the LNB Support Arm."

### Installing the Satellite Dish Antenna onto a Wooden Surface

The satellite dish antenna can be installed onto several types of wooden surfaces. This section describes installing the satellite dish antenna base plate and mast onto the side of your house or on a deck rail or floor.

Do not mount the satellite dish antenna onto composite (also called particleboard or fiberboard) surfaces unless there is a wall stud or rafter located where you will be installing the mounting hardware. Composite materials are not strong enough to support the satellite dish antenna during strong winds and other violent weather conditions.

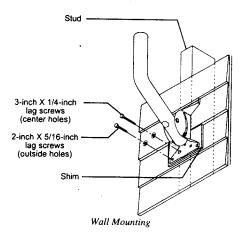
Have the following tools and materials handy during this process. Items marked with an asterisk (\*) indicate that they are included in the *Do-It-Yourself Installation Kit* (sold separately).

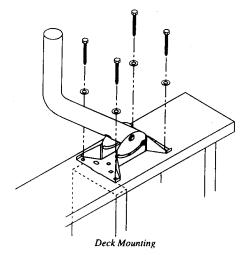
- Drill bits (1/8-inch, 3/16-inch)
- Carpenter's level
- Pencil or chalk
- Electric drill

- Silicone sealant \*
- Washers \* (5/16-inch, Oty. 4)
- Wrenches (3/8-inch, 7/16-inch)
- Lag screws \* (3-inch x
   1/4-inch, Qty.2; 2-inch x
   5/16-inch, Qty.4)

#### **Installation Procedure**

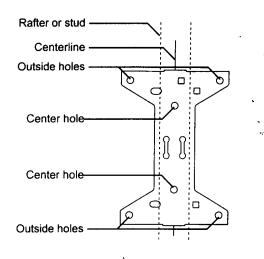
1) Select a secure site to install the satellite dish antenna base plate:

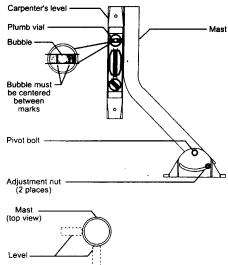




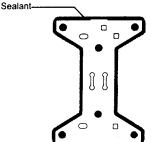
- On the side of your house. Locate a wall stud onto which you can install the antenna base
  plate as shown. Wall studs can most easily be found by looking for the line of nails that
  shows where siding is attached to the house or by using a stud finder.
- On a deck railing or floor. You can install the base plate onto a deck rail or on the deck floor as shown.
- 2) Place the base plate so the center holes align with the centerline of the rafter or stud (see diagram). While holding the base plate in place, use a pencil to mark the location of the top center hole onto the mounting surface. This mark indicates where you will be drilling later.

3) Using a carpenter's level, plumb the antenna mast in at least two different locations on the side of the mast, as shown. These two measurements should be at right angles to each other. If the mast is plumbed (aligned vertically with the bubble level), go to step 5. Otherwise, loosen the pivot bolt and adjustment nuts (see diagram).





- 4) Rotate the mast until it is plumb with the level, then tighten the pivot bolt and alignment nuts. If you are still unable to align the mast with the level, try using wooden shims. If they do not correct the problem you will need to find another site to install the satellite dish antenna.
- 5) Set the mast aside and drill a 1/8-inch x 3-inch pilot hole where you made the pencil mark.
- 6) Install the mast assembly onto the mounting surface using a 3-inch x ¼-inch lag screw. Tighten the screw enough to secure the base plate, but leave it loose enough to enable you to adjust the base plate.
- 7) Verify that the mast is still plumb and adjust if necessary.
- 8) Mark the locations of the outside holes and remaining center hole on the mounting surface.
- 9) Remove the base plate from the mounting surface.
- 10) Drill a 1/8-inch x 3-inch pilot hole for the lower center hole.
- 11) Drill four 1/8-inch x 2-inch pilot holes for the outside holes.
- 12) While holding the base plate in place, apply silicone sealant onto the six pilot holes and around the bottom edge of the base where it contacts the mounting surface (see diagram). Doing so will help prevent water from seeping into your house.



- 13) Install four 2-inch x 5/16-inch lag screws and four 5/16-inch washers into the outside holes on the base plate.
- 14) Install two 3-inch x ¼-inch lag screws into the center holes on the base plate.
- 15) Tighten all screws.
- 16) Apply additional silicone sealant to cover the tops of the lag screws.

With the base plate and mast installed, proceed to the section titled "Attaching the Reflector Onto the LNB Support Arm" later in this chapter.

# Installing the Satellite Dish Antenna onto a Brick Surface

The satellite dish antenna can be installed onto brick surfaces. This section describes installing the satellite dish antenna base plate and mast onto the side of your brick house or on a chimney.

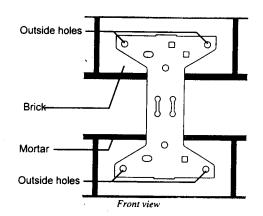
Have the following tools and materials handy during this process. Items marked with a asterisk (\*) indicate that they are included in the *Do-It-Yourself Installation Kit* (sold separately).

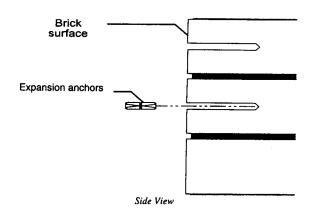
- Masonry drill bit (3/8-inch)
- Machine screws \* (¼inch x 3-inch, Qty. 4)
- Carpenter's level
- Pencil or chalk

- Silicone sealant \*
- Expansion anchors\* (Qty. 4)
- Washers \* (5/16-inch, Qty. 4)
- Wrenches (3/8-inch, 7/16-inch, or adjustable)
- Hammer

#### **Installation Procedure**

- 1) Select a flat and secure site to install the satellite dish antenna base plate.
- Place the base plate so the outside holes are positioned over the brick surfaces. Do not drill
  into the mortar between the bricks.

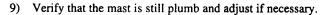




- 3) Using a carpenter's level, plumb the satellite dish antenna mast in at least two different locations on the side of the mast, as shown. These two measurements should be at right angles to each other. If the mast is plumb (aligned vertically with the bubble level), go to step 5. Otherwise, loosen the pivot bolt and adjustment nuts (see diagram).
- 4) Rotate the mast until it is plumb with the level, then tighten the pivot bolt and alignment nuts. If you are still unable to align the mast with the level, try using wooden shims. If they do not correct the problem you will need to find another site to install the satellite dish antenna.
- 5) Use a pencil to mark the location of the top left outside hole of the base plate (see diagram) onto the brick surface.
- 6) Set the mast aside and drill a 3/8-inch x 3-inch hole where you made the pencil mark.
- 7) Clean out the hole and insert an expansion anchor. The anchor should fit snugly, so you may have to use a hammer to gently tap the anchor until it is flush with the brick surface.

8) Install the mast assembly onto the mounting surface using a 3-inch x 1/4-20 machine screw

(see diagram). Tighten the screw enough to secure the base plate, but leave it loose enough to enable you to adjust the base plate.



- 10) Mark the locations of the other three outside holes on the mounting surface.
- 11) Remove the base plate from the brick surface.
- 12) Drill three 3/8-inch x 3-inch holes for the outside holes.
- 13) Install the base plate using the 3-inch x 1/4-20 machine screws and four 5/16-inch washers.
- 14) Tighten the four machine screws.

3-inch X 1/4-20 machine screws (outside holes)

With the base plate and mast installed, proceed to the section titled "Attaching the Reflector Onto the LNB Support Arm" later in this chapter.

### Installing the Satellite Dish Antenna onto a Cinder Block Surface

The satellite dish antenna can be installed onto brick surfaces. This section describes installing the satellite dish antenna base plate and mast onto a cinder block or masonry surface.

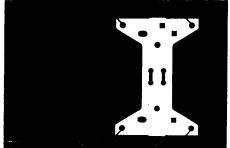
Have the following tools and materials handy during this process. Items marked with a asterisk (\*) indicate that they are included in the *Do-It-Yourself Installation Kit* (sold separately).

- Masonry drill bit (½inch)
- Machine screws \* (¼inch x 3-inch, Qty. 4)
- Carpenter's level
- Pencil or chalk

- Electric drill
- Silicone sealant \*
- Togglers\* (Qty. 4)
- Washers \* (5/16-inch, Qty. 4)
- Wrenches (3/8-inch, 7/16-inch, or adjustable)
- Hammer

#### **Installation Procedure**

- 1) Select a flat and secure site to install the satellite dish antenna base plate.
- 2) Tap the cinder blocks with a hammer to locate the hollow center cores.
- 3) Place the base plate so the outside holes are positioned over the hollow center cores of the cinder block. Do not drill into the mortar between the cinder blocks.



Plumb via

be centered

Pivot bolt

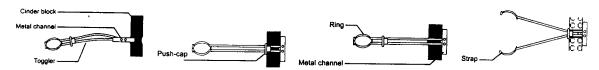
Adjustment nut (2 places)

Using a carpenter's level, plumb the satellite dish antenna mast in at least two different locations on the side of the mast, as shown. These two

measurements should be at right angles to each other. If the mast is plumb (aligned vertically with the bubble level), go to step 5. Otherwise, loosen the pivot bolt and adjustment nuts (see diagram).

- Rotate the mast until it is plumb with the level, then tighten the pivot bolt and alignment nuts. If you are still unable to align the mast with the level, try using wooden shims. If they do not correct the problem you will need to find another install site.
- Use a pencil to mark the location of the top left outside hole of the base plate (see diagram) onto the cinder block surface.
- Set the mast assembly aside and drill a 1/2-inch hole where you made the pencil mark.
- Install the toggler as follows: Holding the ring end of a toggler, fold the metal channel flat against the toggler and insert it into core of the cinder block. Rotate the toggler and gently pull the ring to ensure the metal channel is flat against the inside of the

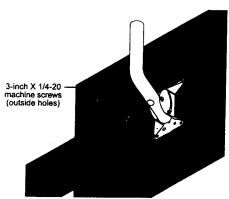
Clean out the hole. Mast (top view) the drilled hole until you feel the channel open inside the hollow cinder block. While pulling the toggler toward you to apply tension, slide the push-cap until it is snug against the cinder block. Break the ring along the center perforation and bend the two straps away from each other until they break at the push-cap. Break the ring along the center perforation and bend the two straps away from each other until they break at the push-cap.



Toggler installation steps.

- 10) Install the mast assembly onto the cinder block surface using a 3-inch x 1/4-20 machine screw (see diagram). Tighten the screw enough to secure the base plate, but leave it loose enough to enable you to adjust the base plate.
- 11) Verify that the mast is still plumb and adjust if necessary.
- 12) Mark the locations of the other three outside holes on the cinder block surface.
- 13) Remove the base plate from the cinder block.
- 14) Drill three 1/2-inch holes for the outside holes.
- 15) Repeat steps 8 through 12 to install togglers in the three drilled holes.
- 16) Install the base mast assembly using the 3-inch x 1/4-20 machine screws and four 5/16-inch washers.
- 17) Tighten the four machine screws.

With the base plate and mast installed, proceed to the section titled "Attaching the Reflector onto the LNB Support Arm" later in this chapter.



### Installing the Satellite Dish Antenna onto a Metal Pole

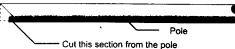
The satellite dish antenna can be installed onto a metal pole. You will not be using the base plate or mast included with the satellite dish antenna for this procedure. Store these items in case you decide to move the satellite dish antenna to a new location in the future.

Have the following tools and materials handy during this process.

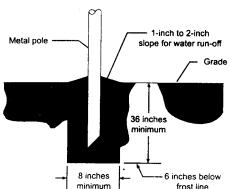
- Hole digging tools
- Wheelbarrow or concrete mixing box
- Carpenter's level
- Pencil or chalk
- Guy wires and wooden stakes
- Hacksaw
- 40-pound bag of quick setting concrete (Qty 4)
- Metal pole (1¼-inch inside diameter schedule 40 galvanized water pipe
  - 6-foot length minimum)

#### **Installation Procedure**

1) Use a hacksaw to cut the bottom edge of the pole at a 45° angle, as shown. This prevents the pole from rotating in the concrete over time.



Dig a hole at least 8-inches in diameter and 36-inches deep. If you live in an area where the frost line goes deeper than 30-inches, dig the hole at least 6-inches deeper than the frost line.



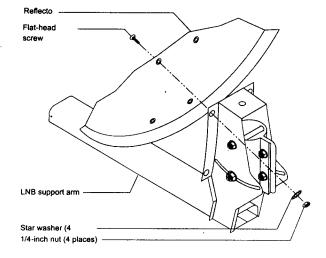
- 3) Place the pole into the hole and place rocks (for example) around the pole to stabilize it in a vertical position.
- 4) Fill the hole with prepared quick drying cement. Shape the top of the concrete with a slope to improve drainage.
- 5) Using a carpenter's level, plumb the pole in at least two different locations on the side of the pole, as shown. These two measurements should be at right angles to each other. When the pole is plumb, secure it with the rocks, or attach guy wires to hold it upright
- 6) Let the cement dry for 24 hours before you remove the guy wires or attempt to attach the satellite dish antenna to the pole.

With the pole installed, proceed to the section titled "Attaching the Reflector Onto the LNB Support Arm" later in this chapter.

# Attaching the Reflector onto the LNB Support Arm

### **Assembling the Satellite Dish Antenna**

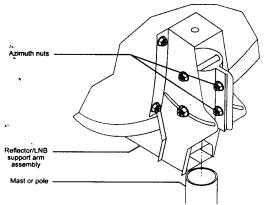
- 1) Insert a flat-head screw into one of the holes in the face of the reflector, as shown.
- Install the mounting bracket of the LNB support arm onto the four flat-head screws, as shown.
- 3) Loosely install a ¼-inch nut onto the portion of each flat-head screw that sticks through the back of the reflector and mounting bracket.
- 4) Tighten the four ¼-inch nuts. The heads of the flat-head screws must be flush on the inside surface of the reflector to be securely fastened to the LNB support arm.
- 5) Install the cable clip as shown.



### Attaching the Satellite Dish Antenna Assembly to the Mast or Pole

Now that you have assembled the satellite dish antenna you are ready to mount it on your previously installed mast or pole. While the diagrams may show a satellite dish antenna model that differs from the one you have, the same procedures apply.

- If necessary, slightly loosen the azimuth nuts on the LNB support arm.
- Slide the satellite dish antenna assembly onto the mast or pole until the top of the mast stops at the bolt at the top of the mounting assembly.
- Tighten the azimuth nuts enough so that the satellite dish antenna assembly can rotate easily on the mast or pole.
- 4) The next step is to ground the satellite dish antenna.



#### **CAUTION**



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

#### Refer to the following:

- Go to the section titled "Grounding the Metal Pole Mount" if your satellite dish antenna is installed on a metal pole.
- Go to the section titled "Grounding the Base Plate" if you satellite dish antenna is installed on the supplied satellite dish antenna mast.

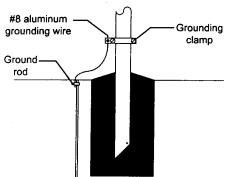
### **Grounding the Metal Pole Mount**

Have the following tools and materials handy during this process. Items marked with a asterisk (\*) indicate that they are included in the *Do-It-Yourself Installation Kit* (sold separately).

- 1½-inch ground clamp
- 5/8-inch x 8-foot ground rod and ground rod clamp
- #8 aluminum grounding wire \*
- Cable ties \*
- Adjustable wrench
- Sledge hammer

### **Installation Procedure**

1) Approximately 1 foot from the pole's cement pier foundation, use a sledge hammer to drive the ground rod 8 feet into the ground.



- 2) Install the grounding clamp approximately 1 foot from the base of the pole.
- 3) Install the #8 aluminum grounding wire onto the ground clamp in accordance with National Electric Code 810-15.
- 4) Route the ground wire from the clamp to the ground rod. Use the ground rod clamp to attach the grounding wire to the ground rod.
- 5) Secure the ground wire to the pole using the cable ties.

You can now proceed to the section titled "Installing and Routing the LNB Coaxial Cable."

### **Grounding the Base Plate**

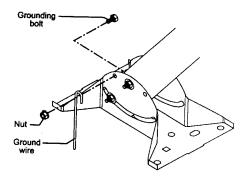
Have the following tools and materials handy during this process. Items marked with a asterisk (\*) indicate that they are included in the Do-It-Yourself Installation Kit (sold separately).

- 5/8-inch x 8-foot ground rod
- Adjustable wrench
- Sledge hammer

- ground rod clamp \*
- #8 aluminum grounding wire \*
- Cable ties

### **Installation Procedure**

- 1) Use a sledgehammer to drive the ground rod 8 feet into the ground near where you installed the satellite dish antenna base plate.
- 2) Insert the  $\frac{1}{4}$ -20 x  $\frac{1}{2}$ -inch bolt through the grounding hole on the base plate.
- Install the 1/4-inch nut onto the bolt.
- Wrap the #8 aluminum grounding wire around the bolt between the star washer and the base plate in accordance with National Electric Code section 810-15, then tighten the nut.
- 5) Route the ground wire from the base plate to the ground rod. Use the ground rod clamp to attach the ground wire to the ground rod.
- If necessary, secure the ground wire to the wall using insulated U-shaped tacks.

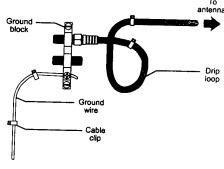


### Installing and Routing the LNB **Coaxial Cable**

This section describes routing and installing the coaxial cable between the LNB and the grounding block. Depending on the routing of the coaxial cable, you may choose to use a cable that can be buried. When normal coaxial cable is buried, its outer cover decays in the soil, and the cable's life is shortened. Cables that are suitable for burial use a special outer cover that resists breakdown. Some of these cables also have a special coating on their ground shields. This coating resists corrosion if water gets into the cable. Anytime the coaxial cable is buried, use cable that is suitable for burial. Doing so will help prevent problems in the future.

An important goal of your cable installation is to protect the cable from physical damage and moisture penetration. To protect the cable from physical damage, secure it to walls or another stable surface with cable clips. This prevents the cable from sagging and being damaged by people stepping on it or running over it with yard equipment. Prevent moisture penetration by using weatherproof connectors, or by sealing any

Ground Cable connection that is exposed to the elements. Drip loops provide a connection with additional protection by preventing moisture from traveling down the cable and entering the connection.



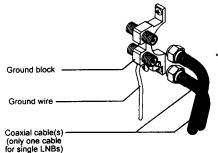
Have the following tools and materials available:

- Phillips screwdriver
- Hammer

- #14 (or larger) insulated grounding wire
- Flat-blade screwdriver

#### **Installation Procedure**

1) Select the location where you will install the ground block. Choose a site that will be near the cable entry point into the building. Also, plan a short and straight path for the ground wire to the grounding rod.



For single LNBs or dual LNB installations using only one side, a single coaxial cable will be used.

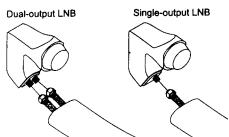
- 2) Select a length of cable that can be routed easily from the LNB to the ground block. If your system is equipped with a dual-output LNB, select a second cable that's the same length.
- 3) Secure the grounding block to a stable mounting surface with two screws, then connect the cable(s) to the grounding block.
- 4) Secure the cable(s) with cable clips. Do not forget to form the drip loop and secure it in place with cable clips.
- 5) Install the #14 insulated ground wire on the ground terminal of the ground block in accordance with National Electric Code section 820-33.
- 6). Route the ground wire to the ground rod.
- 7) Connect the ground wire to the ground rod. Remember to secure the wire to a wall or some surface to protect it.

# Connecting the Coaxial Cable to the LNB

#### **Installation Procedure**

1) If you installed the satellite dish antenna assembly onto a metal pole, go to step 2. Otherwise, route the coaxial cable(s) through the mast and LNB support arm.

Single-output LNB Now continue on to step 3.



- 2) Route the coaxial cable(s) along the outside of the pole and inside the LNB support arm.
- 3) Insert the cable into the cable clip. This ensures that there will be enough slack in the cable if you need to remove the LNB later. If you are routing two cables, use a cable tie to bind the cables together, then insert one of the cables into the cable clip.
- 4) Attach the coaxial cable(s) onto the LNB as shown.

# Attaching the LNB to the LNB Support Arm

- Slide the cable connection end of the LNB into the D-shaped opening in the LNB support arm so that the LNB points toward the reflector. The end of the LNB may be rectangular or D-shaped, however either type will fit.
- Insert the correct size retainer screw into the LNB mounting hole. Two sizes of this screw are provided to accommodate either LNB style.
- 3) Use the appropriate screwdriver to tighten the screw.

# Routing the LNB Cable to the Satellite Receiver

During this step of the installation, route the LNB cable from the ground block to the satellite receiver. In most installations, there is more than one way to get the LNB cable to the adapter from the grounding block. If the adapter is near an inside wall, use the crawl space, basement, or attic area.

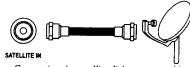
When routing the LNB cable to the digital satellite receiver, take the shortest possible path and always protect it from physical damage.

- After verifying that there are no wires or pipes blocking the location where you near to feed the coaxial cable into the building, drill a ½-inch hole. If you are routing two coaxial cables, drill a second ½-inch hole near the first.
- Connect one end of the cable to the ground block. Repeat this step if you are routing two cables.
- Form a 3-inch to 5-inch drip loop in the cable(s) before inserting it in the access hole.
- 4) Secure the drip loop(s) and cable(s) to the wall with cable clips.
- 5) Inside the building, route the cable(s) to where the satellite receiver(s) are located. Depending on the installation site, this could be through a floor or wall, directly to the rear of the satellite receiver. If the cable goes straight through a wall, you can use a wall plate at the access point.
- 6) Seal the access point into the building with silicone sealant.

The satellite dish antenna and cable are now completely installed.

# **Connecting the Satellite Dish Antenna**

You must connect the satellite dish antenna cable to receive a signal. You should unplug your digital satellite receiver from the power outlet prior to making this connection. Once the satellite dish antenna has been mounted and the satellite cable has been run from the satellite dish antenna to the digital satellite receiver, you are ready to monitor the signal strength while adjusting the satellite dish antenna pointing.



To antenna

Connecting the satellite dish antenna cable

# **Positioning the Satellite Dish Antenna**

Pointing accuracy is very important. The satellite dish antenna must be pointed exactly at the satellite for you to receive a signal. Please follow these instructions carefully to achieve a successful installation.

In the following procedure you will be referring to the meter on the INSTALLATION screen. If this screen is not currently displayed, press the EOWED key, shutting the system down, and then press the POWER key to start the system up again.

If you see a black screen with the message:

"Searching for satellite signal. To access related utilities, press SELECT."

press the SELECT key. Otherwise, press keys in the following order to navigate to the INSTALLATION screen:

- GUIDE to display the MAIN MENU
- or ▼ to move the highlight over the Setup Menu button
- SELECT to display the SETUP MENU
- or ▼ to move the highlight over the *Installation* button
- SELECT to display the INSTALLATION screen

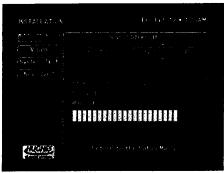
You should see a meter displaying your signal strength.

#### The INSTALLATION Screen

The INSTALLATION screen shows the quality of the signal that you are receiving. Because you

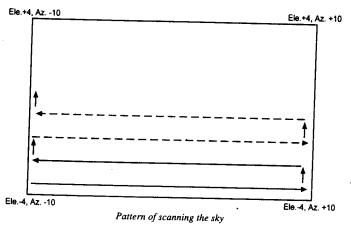
have not adjusted the direction of your satellite dish antenna, you probably have a signal strength of 0. To let you know that it is "looking," you should hear a short beep every few seconds.

Even though a signal strength of 50 will give you the same highquality picture and sound as a reading of 90, you should maximize your signal as much as possible, because rain or snow can cause the signal strength to drop significantly. This signal reduction is known as "rain fade." As soon as the signal can penetrate the rain cloud or snow, your picture will return automatically.



The INSTALLATION screen

# Pointing the Satellite Dish Antenna Using the "Box" Method



The easiest way to find the satellite signal is by scanning the sky in the general direction that the satellite is located. While you could possibly achieve this by trial and error, you should be able to find the signal in just a few minutes using the "box" method. What you are effectively doing is scanning the sky in a pattern similar to the way a farmer plows a field.

It will be easiest to fine-tune your satellite dish antenna with someone else's assistance, calling out the signal strength while you make the adjustments. Optionally, you can turn up the volume of your TV so that you can hear the beeps while you make adjustments. When there is no signal, beeps will occur every few seconds so that you know it is searching. As the signal strength increases, the beeps will become much more rapid.

Before you begin make these quick checks:

- Verify that there are no obstructions such as trees, buildings, etc., blocking the signal.
- Verify that you are using the proper cable type (RG-6) between the satellite dish antenna and
  the digital satellite receiver. Also, be sure that the connections are tight and the center wire in
  the cable extends about 1/8<sup>th</sup>-inch beyond the end of the connector.
- Verify that the azimuth and elevation values that you determined earlier are correct for your area.
- To loosen and tighten the satellite dish antenna's bolts, you will need a 7/16-inch wrench (not included).
- A compass will also be needed to establish the initial direction to point your satellite dish antenna.

The "box" method begins by subtracting 10 degrees from the azimuth and subtracting 4 degrees from the elevation values that you determined earlier.

We'll begin by adjusting the elevation. First, loosen the nuts securing the two (one on each side) elevation bolts just enough so that you can easily tilt the reflector up and down. Next, line up the elevation indicator with the tick mark corresponding to the elevation calculated earlier (result minus 4 degrees). This indicator is the leading edge of the metal just to the left of the bolt. It is recessed inside the slot. Finish adjusting the elevation by lightly tightening the bolts when the indicator is aligned with the correct tick mark. Make sure that the satellite dish antenna doesn't slip out of position while you are tightening the bolts.

Next, we'll adjust the azimuth. For this part of the procedure, a compass (such as the one included in the *Do-It-Yourself Installation Kit*) will make it possible to point in the proper direction. This is done by first loosening the azimuth bolts just enough in order to turn the satellite dish antenna smoothly with a little pressure. Stand behind or beneath the satellite dish antenna reflector and, while grasping the outer edges of the reflector, rotate the satellite dish antenna until it is pointing toward the azimuth value determined earlier (result minus 10 degrees). Be sure that as you do this you do not lean on the reflector, as that would affect the alignment. Don't tighten the bolts just yet!

- 1) Slowly turn the satellite dish antenna 20 degrees towards and past the actual determined azimuth. It should take about 20 seconds to make the sweep of the sky.
- 2) If no signal was found in this pass, increase the elevation by 1 degree and slowly turn the satellite dish antenna back the other direction. If you do find a signal, go to step 5.
- 3) If you have done this for 9 passes (now 4 degrees above the determined elevation), start back at the beginning point and try again. If you cannot achieve any signal after several tries, call your dealer or the Customer Care Center at 1-800-274-8995.
- 4) If no signal is found, increase the elevation by 1 more degree and go back to step 1. If you do find a signal, go to step 5.
- 5) To have reached this step it is assumed that there is some degree of signal. A numeric value for the strength ranges from 0 to 99. While your signal strength may vary, refer to the following map to determine the suggested signal strength goal for your area:



Typical signal strength results. Your actual signal strength may vary.

- 6) Gently continue turning the satellite dish antenna reflector a small amount as you were turning it when you began receiving a signal. Continue to adjust the satellite dish antenna in this fashion until the signal strength meter reaches the highest possible reading. Tighten the azimuth bolts.
- 7) Slowly tilt the satellite dish antenna up and down to try to improve the signal strength reading. When you are satisfied that you have achieved the strongest signal, tighten the elevation bolts.

You may choose to try different transponders. Each transponder transmits multiple programs at a time. The transponder displayed when entering the screen represents the one associated with the last viewed program (or "02" if no program has been viewed). By moving the highlight to the transponder area, you can enter a number from 01 to 32. Different transponders may show varying signal strengths. This is not indicative of any problem unless the variations are extreme (such as 40 and 90). In the event of signal reception problems, customer service representatives may ask for information such as signal strength on a different transponder. Do not change transponders trying to find the best signal since the transponder will automatically change to the one that corresponds with the satellite channels that you view.

# **Authorizing Your Service**

To confirm that the satellite dish antenna is properly adjusted to receive signals, try to receive promotional channels from both, DIRECTV and USSB. If you can receive them, you can now arrange to receive your DIRECTV System programming 24 hours a day, 7 days a week, at the following numbers:





1-800-DIRECTV (347-3288)

1-800-204-USSB (204-8772)

Subscribe to both DIRECTV and USSB to enjoy over 200 available channels of digitally delivered sports, movies, news, and family entertainment. Check with the service providers regarding details available offerings and packages.

# WATCHING DIRECTV SYSTEM PROGRAMMING

This chapter will reveal many different ways to find the programs you want to watch. The first thing you should know is that channels in the DIRECTV System world are arranged differently than on conventional TV channels. Channel numbers range from 100 to 999.

# **Basic Channel Changing**

There are many ways to "surf" through the available programming. Anyone who has ever used a remote control TV already knows at least two ways to change channels. The first of these is by using the \$0 and \$0 keys. Each key press takes you to the next available channel in the direction that you selected. The second way is to enter the number of the desired channel. For example, to go to the Direct Ticket movie previews, simply press 000. Or to watch the USSB preview channel, press 000. You can enter the number for any channel you wish.

#### The Channel Banner

Every time you tune to a channel, a banner will be displayed at the top of the screen. You can also display the **Channel Banner** any time by pressing the key.

Pressing will remove the banner immediately.

All Channels Fro Opt to Sudding Age to 6 Class Company to 6 Class Company Chin Spects Tourish

The CHANNEL BANNER

This banner contains information about the program, including the program start and end times, title, rating, channel call sign or logo, channel number, and program or channel-related symbols where applicable. Symbols, as shown below, could include alternate audio, data, new mail, can't tape, closed caption, and/or the lock status. See the section called "Alternate Services" later in this chapter for information on accessing alternate audio or data services.

Icon	\$	DATA SVCS.	ALT. AUDIO	(CC)	NEW MAIL	Ω	J.	CAN'T TAPE	DOLBY DIGITAL
Meaning	Pay Per View	Data available	Other audio available	Closed caption available	Unread mail	Limits enforced	Limits override	Taping not allowed	Dolby Digital (AC-3)

Additional information displayed in the banner includes the current date and time, and current favorite list.

# **The Information Banner**

Pressing the NEO key a second time while the Channel Banner is displayed will replace the

information with any available description of the current program. This is called the **Information Banner**. Either of these banners will go away after a few seconds, or you can press the key or key to clear it on demand.



The INFORMATION BANNER

## The OneLine™ Guide

If you'd like to know what's on another channel without switching from your current channel, use the

OneLine Guide. Simply press ♠ or ▼ and begin browsing. You can see the channel call sign and number, titles, and program start and end times. When you see something you like; then press to tune to the channel.

You may also directly enter a channel number to advance the OneLine Guide to that channel. The other filter keys, including (a), and (b), as well as the (b) key will also control the content of the OneLine Guide.

Pressing the EXIT key will cancel the OneLine Guide.



The OneLine Guide

#### TurboTune™

The TurboTune feature provides access to nine of your preferred channels on top of the current video.

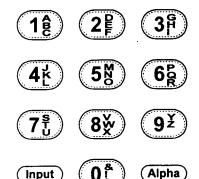
The TurboTune panel is displayed by pressing the watching video as long as there are no messages prompting you to press for some other purpose. The TurboTune panel displays nine channel tags. These channels can be specified via the TurboTune button on the SETUP MENU. The header area of the panel displays the title of the program currently airing on the highlighted channel tag. You can choose one of the nine by moving the highlight over the desired channel and pressing shortcut to moving the highlight is to press the remote control numbers that corresponds with the on-screen position of the desired channel. In the example on the right, press 7 for ZDTV.



The TurboTune panel

#### AlphaTune™

AlphaTune enables you to tune to a channel by spelling a channel's call sign rather than by number. To



The remote control keypad.

enter the AlphaTune mode, you must first press the Alpha key located on the lower right on the keypad. An "ALPHA" symbol appears on the screen. You can now enter the numbers and letters (located above each of the number keys) to spell the desired channel call sign. For example, to tune to ESPN, press Alpha 2765. All special symbols (i.e., &, /, +, !, etc.) are located on the key. As soon as the receiver can determine which channel you are seeking, it will tune to it automatically. No additional keys need to be entered. If the channel call sign is fewer than four letters, you may need to press to indicate that you are finished. If more than one channel shares the same set of key (i.e., "CNN" and "COM", both using 156), the next matching occurrence is used. If that was not the channel you wanted, just press Alpha Alpha to find the next occurrence of that key sequence. It is important that you enter the channel call sign exactly. With experience, you will become more familiar with the channel name abbreviations that are used.

# **Alternate Services**

The digital satellite receiver can support alternate audio and data reception. To determine if the



The Alternate Services panel

services are available for a particular program, look for their icons below the date and time in the Channel Banner or on the on-screen guide. To access these services when available press the keys on the remote control. The Alternate Services banner will appear at the bottom of the screen. Highlight and select the Alt. Audio to temporarily change the audio language.

#### Audio

Once you have selected the Audio button you can use the ◀ and ▶ keys to step through the audio tracks offered for the current program.

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

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

# **Digital Audio**

Once you have selected the Digital Audio button you can use the  $\triangleleft$  and  $\triangleright$  keys to step through the audio tracks offered for the current program. For programs that are offered in Dolby Digital the icon along with the name of the audio track will be displayed. The option of "Same as Audio" is always available. This will provide PCM digital audio that is the same track as selected under the Audio option.

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

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

# THE ON-SCREEN GUIDES



The most powerful features of the digital satellite receiver are the on-screen guides. You may customize the on-screen guide to see a page of channels or program listings to include only programs of interest to you. Other advanced features available from the on-screen guides, such as scheduling and program information, will help plan your viewing. Continue reading to learn the real power of the digital satellite receiver's on-screen guides. At any time you can press the GUIDE key to display the current on-screen guide.

This digital satellite receiver offers a variety of on-screen guides. Each guide has its own design to make finding programs of interest an easy task. These guides include the PROGRAM GUIDE (SM.CELL), PROGRAM GUIDE (LG. CELL), TITLE GUIDE, LOGO GUIDE, and WATCHWORD GUIDE.

Each guide (except WatchWord) can be filtered into smaller channel groupings, as specified in your personalized favorite *Channel Lists*. You can also reduce the displayed listing by specifying a *Theme* of interest, and then narrow the offerings further by specifying a type within the *Theme*. Additional settings, such as *Guide Times* and *Classes*, may be specified to determine the guide content. A full description of the filtering options can be found later in this chapter.

Some buttons contain small icons inside them, indicating their function:

A list of options will be offered. This list appears in what is referred to as a "Pop-up Menu."

A series of boxes will appear used to specify numbers and/or letters for the particular feature associated with the button.

# **Choosing the Guide Style**

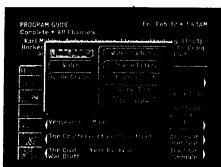
To display on-screen guides, press the GUIDE key. Press the GUIDE key again to display or remove the guide pop-up menu. The guide menu provides buttons to access the

MAIN MENU, exit to *Video*, ways to narrow your search, and *Guide Style*.

To choose a guide style, simply highlight the *Guide Style* button and press SELECD. A pop-up menu offering each of the guide styles will be displayed. Highlight your selection and press the GELECO key. The guide will be redrawn to display your selection.

Familiarize yourself with the benefits of each guide style:

**PROGRAM GUIDE (SM. CELL)** - This guide style displays several rows of channels with columns indicating the time period of the programming. Cells occupy the main portion of the screen with program titles in them. This layout makes it very easy to se what programming at what time is being offered. The "SM. CELL"



The Guide pop-up menu

portion of the guide style name refers to the fact that there is only one line of text associated with each program title. While this could cause the title to be cut short, it also allows for a large number of channels to be displayed simultaneously.

**PROGRAM CUIDE** (LG. CELL) - This guide style, like the SM. CELL style, displays several rows of channels with columns indicating the time period of the programming. Cells occupy the main programming at what time is being offered. The "LG. CELL" portion of the guide style name refers to the fact that there is two lines of text associated with each program title. While this provides more space for the program titles and for channel tags, it also reduces the number of channels to be displayed simultaneously.

TITLE GUIDE - The TITLE GUIDE is convenient when you are looking for a program that is coming on in the next few hours that you know the title of, but just don't know the channel it will be on. In this guide style, program titles are listed in alphabetical order with reference to times and channels displayed as supplementary information.

LOGO GUIDE - This guide style offers the greatest number of channels displayed simultaneously. It is also the most colorful. For those viewers that choose their programming more by the channel, rather than by program title, this is the best option. Almost every channel is represented by the associated losso.

WATCHWORD GUIDE - This is a special guide in that it creates a list of program titles based on various keywords that you specify. First, you have to enter your keywords on the WATCHWORD SETUP screen Then, when you are not using your digital satellite receiver, turn it off. It is during the "off time" that the digital satellite receiver scours the thousands of program titles and their descriptions looking for matches to your keywords. To fully complete this process, several hours are needed. So, it is best if you let your system do this for you while you are asleep. When you return, selecting the WATCHWORD GUIDE style will provide you with a list of matching programs that it was able to

find.

As you can see, there are various guide styles to suit various tastes and needs.

## Descriptions

One guide option is to automatically display descriptions for highlighted program titles. The descriptions usually provide information such as actors' names, a program synopsis, and additional rating information. Sometimes the description may be only a message describing what type of program is highlighted, such as "Current News."

This option is chosen via the Descriptions button on the guide pop-up menu. Displaying the extra information reduces the number of channels or titles that can be displayed at one time.

Remember that you can always access program descriptions by pressing the live Descriptions button is selected.

## General On-Screen Guide Features

While there are nine different ways the on-screen guide can appear, there are some things they have in common.

The guide name will always appear in the upper left corner. It may be something simple like "PROGRAM GUIDE." If you have filtered the guide, it could be more descriptive such as "COMEDY MOVIES GUIDE." (See "Filtering the Guides" section later in this chapter.)

- Immediately below the guide title are indicators showing how the guide is further filtered. The label to the left of the bullet specifies the current class filter setting. To the right of the bullet you will see the current channel list.
- In the upper right corner of your screen the current day, date, and time are displayed.

- Just below the time you may see small icons indicating the status of the system or details about the
  currently highlighted program title. They are the same icons that can appear in the Channel
  Banner.
- The primary body of the guide screen displays channels and program titles. You can press on a currently airing program to tune to it. Pressing will take you to the INFORMATION screen described later in this chapter in the section called "Getting Program Information."
- If a program title cannot entirely fit in the space provided, an ellipsis (...) indicates that a portion of the title is missing.

## **Using PreSelect to Schedule Programs for Taping**



This feature is commonly known as StarSight One-Touch Record (OTR). With the PreSelect feature you can select viewing choices in advance to avoid missing them. Use PreSelect to plan your evening viewing; your DIRECTV System will automatically change channels according to your selections and control your VCR for unattended recording.

To PreSelect a program, find an upcoming program you wish to watch. Press steet to add a PreSelect to Tape entry to the SCHEDULER screen which holds all scheduled events.

Programs that have been scheduled to be taped will be identified with a videotape icon ( before the program title on the on-screen guide.

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

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

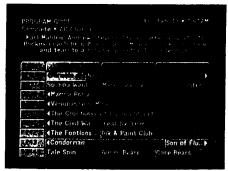
# Using PreSelect™ to Schedule Programs for Viewing

If you do not want to have the PreSelected program recorded, press the setting to be automatically tuned to for viewing. Programs that are PreSelected for viewing will be identified on the on-screen guide with a check mark () before the program title. An additional press of the setter key will return the status to not being scheduled.

# The PROGRAM GUIDE (SM. CELL)



The PROGRAM GUIDE (SM. CELL) without descriptions



The PROGRAM GUIDE (SM. CELL) with descriptions

seen at one time. This number is reduced to 9 if the program description option is enabled. The PROGRAM GUIDE (SM. CELL.) displays 11/2-hours of programming. Up to 12 channels can be

later time than displayed in the grid. Each grid cell approximates the duration of the associated grid. Some cells have arrows indicating that the program started at an earlier time or continues until a The largest area of the PROGRAM GUIDE (SM. CELL) is made up of cells known as the program

This will dictate whether the channels are listed by channel number or alphabetically by call sign. Digital Satellite Receiver's Menu System") the tags may display the channel numbers or call signs. Sort (Name or Number) option specified in your system's PREFERENCES screen (described in "The The list of blocks running down the left-hand side are the "channel tags." Depending on the Channel A time line spanning the width of the guide indicates the show times of the programs being displayed.

more program offerings onto the screen. To navigate the guide, use the ^, v, d, and keys. You can continue to press the ^ or v keys to scroll

Pressing INFO on any title will direct you to the INFORMATION screen.

Use  ${f MO}$  and  ${f MO}$  to vertically scroll through the guide entries a full page at a time.

When the highlight is in the grid, use the ◀ and ▶ keys to move left and right. If you move the

(either channel numbers or call signs). highlight onto the channel tags, they will temporarily change to the opposite of what they were before

there may be a brief delay while more information is received from the satellite. move a full page at a time using cree > 01 cree <. Sometimes, after scrolling a few hours ahead, Move the highlight to the right to move the grid area to reveal later time periods. You can horizontally

# The PROGRAM GUIDE (LG. CELL



The PROGRAM GUIDE (LG. CELL) with descriptions



suoiidirəsəp The PROGRAM GUIDE (LG. CELL) without

seen at one time. This number is reduced to 6 if the program description option is enabled. The PROGRAM GUIDE (LG. CELL) displays two hours of programming. Up to 8 channels can be

program. later time than displayed in the grid. Each grid cell approximates the duration of the associated grid. Some cells have arrows indicating that the program started at an earlier time or continues until a The largest area of the PROGRAM GUIDE (LG. CELL) is made up of cells known as the program

A time line spanning the width of the guide indicates the show times of the programs being displayed. The list of blocks running down the left-hand side are the "channel tags." Depending on the *Channel Tag* (Name/Number or Logos) option specified in the system's **PREFERENCES** screen (described in the chapter, "The Digital Satellite Receiver's Menu System") the tags may display the channel numbers and call signs or network logos. Also, the *Channel Sort* (Name or Number) option specified in the system's **PREFERENCES** screen will dictate whether the channels are listed by channel number, or alphabetically by call sign.

To navigate the guide, use the  $\stackrel{\triangle}{\rightarrow}$ ,  $\bigvee$ ,  $\stackrel{\triangleleft}{\rightarrow}$ , and  $\stackrel{\triangleright}{\triangleright}$  keys. You can continue to press the  $\stackrel{\triangle}{\rightarrow}$  or  $\bigvee$  keys to scroll more program offerings onto the screen.

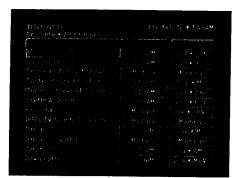
Pressing on any title will direct you to the INFORMATION screen.

Use **§0** and **§0** to vertically scroll through the guide entries a full page at a time.

When the highlight is in the grid, use the ◀ and ▶ keys to move left and right. If you move the highlight onto the channel tags, they will temporarily change to the opposite of what they were before (either channel numbers or call signs).

Move the highlight to the right to move the grid area to reveal later time periods. You can horizontally move a full page at a time using ▶ or ▶ or ►. Sometimes, after scrolling a few hours ahead, there may be a brief delay while more information is received from the satellite.

# The TITLE GUIDE



The TITLE GUIDE without descriptions



The TITLE GUIDE with descriptions

The **TITLE GUIDE** displays up to 12 program titles at any one time. This quantity is reduced to 9 if the program description option is enabled.

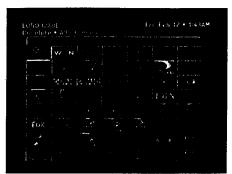
The largest area of the TITLE GUIDE is the first column that displays the program titles in alphabetical order. If a program title cannot fit entirely, an ellipsis (...) indicates a portion of the title is missing. The second column indicates the start time of the program. If the program is going to be airing several times within the next few hours, the word "Multiple" will appear in this column. The third column indicates the program channel. If the program is going to be airing on several different channels, the word "Multiple" will appear in this column. Pressing on any title will direct you to the INFORMATION screen where you can select Show Times to determine which showings best suit you.

To move around the guide, use the  $\triangle$  or  $\nabla$  keys. You can continue to press the  $\triangle$  or  $\nabla$  keys to scroll more program offerings onto the screen.

Refer to the letters on the keys to advance to specific positions in the guide. For example, press the tey to go to the A's. Press it again to go to the B's and a third time to advance to the C's.

To speed up the process of reviewing the guide, you can use #0 or #0 to scroll through the guide entries a full page at a time.

# The LOGO GUIDE



The LOGO GUIDE without descriptions



The LOGO-GUIDE with descriptions

The LOGO GUIDE displays up to 56 network logos at a time. This number is reduced to 42 if the program description option is enabled.

The title of the program currently airing on the highlighted channel appears in the header area immediately above the logo grid. Only current programming is available from the **LOGO GUIDE**.

To navigate the guide, use the  $\triangle$ ,  $\nabla$ ,  $\triangleleft$ , and  $\triangleright$  keys. You can continue to press the  $\triangle$  or  $\nabla$  keys to scroll more program offerings onto the screen.

Pressing on any logo will direct you to the INFORMATION screen.

Use \$\infty\$ and \$\infty\$ to scroll through the guide entries a full page at a time.

# The WATCHWORD™ Guide

The WATCHWORD guide lists programs matching one of the eight words you have specified on the WATCHWORD screen (accessed from the SETUP MENU).

The WATCHWORD guide displays up to 8 program titles that can be seen at once. To navigate the guide, use the ♠ or ▼ keys. You can continue to press the ♠ or ▼ keys to scroll more program offerings onto the screen.

The first column displays the program titles. The second column indicates the start time of the program. The third column indicates the channel that the program is or will be airing on. The fourth and final column indicates the keyword that was found.

Pressing on any title will direct you to the INFORMATION screen.

To speed up the process of reviewing the guide, you can use  $\Omega$  or  $\Omega$  or speed up the process of reviewing the guide, you can use  $\Omega$  or  $\Omega$  or  $\Omega$  or  $\Omega$ .



The WATCHWORD Guide

# **Filtering the Guides**

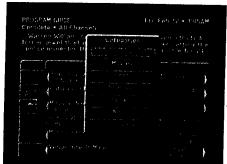
Searching through hundreds of programs can be overwhelming. The digital satellite receiver will help you find what you are looking for. By pressing the while already in a guide, a pop-up menu will display, providing the filtering tools and ways to access other guide styles.

By combining each of these filter options, you can quickly narrow down 200+ channels to those that meet your viewing interests.

You should also be aware that some guide styles do not provide access to certain filter options. The unavailable filters will not appear in the Guide Menu.

#### Theme Filters

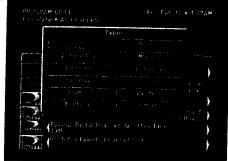
When the *Theme Filters* button is highlighted and street is pressed, a pop-up menu appears. This menu offers all the available category groupings of programs. After choosing a category (other than *All*), the pop-up menu is replaced by



The Category pop-up menu

menu offers all the available category groupings of programs. After choosing a category (other than All), the pop-up menu is replaced by another menu called Types.

The Types pop-up menu allows you to break down your chosen theme by type. For example, if you chose *Movies* for the category, you can now choose a type of movie such as *Comedy*, *Drama*, *Sci-Fi*, etc. After selecting one of these, the guide will be further filtered to show only those channels offering programs of the selected category and type.

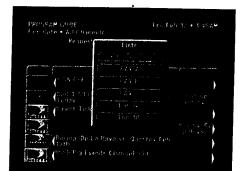


The Types pop-up menu

Popular categories can be quickly selected from your remote control by pressing followed by a number key. You will see labels on the remote control for filtering the guide to movies, sports, news, and all. Press for movies, for sports, or for news and the guide will filter accordingly. Pressing the key sequence a second time or pressing will restore the guide to show all themes.

#### **Channel List**

The Lists pop-up menu enables you to filter the guide to display only channels from the selected list. In



The Lists pop-up menu

addition to All Channels, you can choose one of your own defined lists. See the "Fav. Lists" section of "The Digital Satellite Receiver's Menu System" to learn how to set your favorite lists.

You can use the key to cycle through the lists at any time in the on-screen guide without using the pop-up menu. The *Top-10* list can only be selected via the pop-up menu.

The "Top 10" favorite list is automatically maintained by the digital satellite receiver. The digital satellite receiver monitors the channels viewed in your household and compiles the ten most watched channels on the list. As viewing habits change, the list will update itself accordingly.

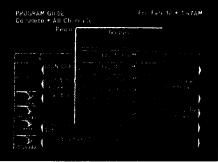
It should be noted that all channel lists are maintained privately within the digital satellite receiver for your use only.

#### **Guide Times**

The Guides pop-up menu ordinarily provides easy access to future programming information. Simply

select one of the hour offsets from the current time. After a few seconds, the selected guide will appear.

Another type of guide that may be offered is a list-type guide. These guides do not represent channels and time, but rather a list of possible options. These guide types are very rare.

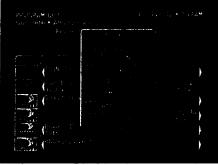


The Guide Times pop-up menu

#### **Class Filters**

Another way to filter the guide is by using the *Classes* menu. From this menu you can select classifications including the following:

- Subscrptn will exclude the pay per view channels from the onscreen guide.
- PPV will list only channels offering pay per view programs.
- Schedule will list channels that have events you have scheduled.
- Other options may be listed since the service providers can update this list via the satellite.



The Classes pop-up menu

# The INFORMATION Screen

To obtain more information about a particular program while viewing one of the various on-screen guides, press the key.

The INFORMATION screen offers the same program description explained earlier, and more. You can see the program's actual start time and duration, the program rating, and a variety of options associated with the selected program.

Many variations of button combinations exist. The button on the left side of the panel could be View, PreSelect to View, PreSelect, or Cancel PreSelect. The button on the right side refers to pay per view programs only. Unless your receiver is authorized to make such "purchases this button will not be displayed. It could be Buy \$, Cancel Purchase, or Buy Options.



The INFORMATION screen

The following buttons may be available:

#### Done

When you highlight the *Done* button and press select, you will be returned either to the guide or to the channel offering the purchase.

#### View

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

#### **PreSelect**

PreSelect is one of the handiest features of your DIRECTV System. You can use it to plan your viewing, then let the system do the rest. PreSelect will initiate a pop-up menu offering up to three choices: To View, To Tape, and Don't PreSelect.

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

To Tape is very similar to To View; however, if you have connected your VCR to the digital satellite receiver via the IR cable and have properly set the VCR code from the Setup Menu, the chosen program will be recorded at the correct time. If the digital satellite receiver turned itself on to record the program, it will also remember to turn itself back off after the program ends. Programs you have scheduled for taping will be identified with a videotape icon ( before the program title in the onscreen guide.

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

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

Don't PreSelect is used if you initiate the pop-up menu and then choose not to schedule anything.

## **PreSelect To View**

The PreSelect To View option appears when a program is not authorized for taping. In this case, the digital satellite receiver can tune to it when it airs but taping is not allowed.

#### **Cancel PreSelect**

Once a program has been scheduled for viewing, or taping, you have the option of canceling the action. Schedules can also be canceled directly from the on-screen guide by highlighting a scheduled program and pressing the key. If you wish to switch between *To View* and *To Tape* or vice versa, you must cancel the current selection first, then choose the newly desired action. Canceling a scheduled program will also remove the check mark or videotape icon preceding the program title on the on-screen guide.

## Buy \$

The Buy \$ is used for pay per view programming. The price of the event is displayed as part of the button. After highlighting the button and pressing SELECT, you will

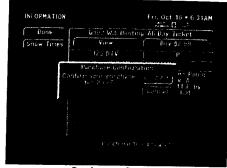
be given the opportunity to confirm your purchase.

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

## **Buy Options**

The Buy Options button is similar to the Buy \$ button. This button will initiate a pop-up menu with three purchase options: View Only, Tape/View, and Don't Purchase.

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



Purchase confirmation

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

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

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

#### **Cancel Purchase**

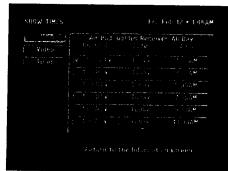
Some events may allow cancellation after they have been purchased, depending on the service provider, event type, and whether the event has been viewed. Unviewed purchases can usually be canceled. If the *Cancel Purchase* button is displayed, you are allowed to cancel the previous purchase. If this button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

#### **Show Times**

The Show Times button provides a simple way to display a concise list of other presentation times for a

certain program. Use this button to find a more convenient viewing time.

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



The SHOW TIMES screen

# DIGITAL SATELLITE RECEIVER'S MENU SYSTEM

The digital satellite receiver offers much more than fantastic audio and video. The Main Menu is the primary location where you can access system management functions. From the MAIN MENU you can access the on-screen guide, customize system features, read incoming messages, lock and unlock your system, and more.

#### **Menu Overview**

Digital satellite receiver menus have been designed to provide a logical and convenient way to access system features and settings. The basic screen layout of each menu is divided into several distinct areas. They are as follows:

- Title, date, and time Across the top of the screen you will see the title of the current menu on the left-hand edge, and the date and time on the right-hand edge.
- Advisory messages Along the bottom of the screen you will see an area that is dedicated to
  providing a brief explanation of the currently highlighted on-screen button.
- Places to go Down the left-hand edge of the screen is a variety of buttons. These buttons usually navigate you to different screens. The top two buttons on the list are always *Done* and *Video*. The *Done* button will take you back one level. The *Video* button will return you to the most recently watched channel. This button is provided in case you are using the digital satellite receiver's front panel and don't have access to the remote control. If the remote control is handy, pressing the key is an easier way to return to your program. The information banner will appear briefly or you can erase it quickly by pressing the key again.
- Things to do This is the largest portion of the screen and is dedicated to topics associated with
  the current menu. Contents usually include buttons for changing settings or checking the status of
  some feature. You will also see information regarding the current menu.

Some buttons contain small icons inside them, indicating their function:

The current setting will cycle through the possible settings with each press of the key.

A list of options will be offered. This list appears in what is referred to as a "Pop-up Menu."

A series of boxes will appear used to specify numbers and/or letters for the particular feature associated with the button.

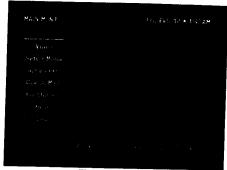
# **Main Menu**

From the MAIN MENU you can access the on-screen guide, customize your system features, check incoming mail, lock and unlock your system, and more.

There are two ways to get to the MAIN MENU. You can press the keys on the remote control. Or when one of the onscreen guides is displayed, you can press the GUDE key to reveal Another way to get to the MAIN MENU is by pressing GUDE while the pop-up GUIDE MENU, then select the Main Menu button.

# Places to go from the MAIN MENU

The Guide button takes you from the MAIN MENU to the onscreen guide. You can use the guide to display what's available at a given time. The guide also offers a pop-up menu of buttons that are useful for filtering the guide or changing the style of the on-screen guide. See the chapter "The On-Screen Guides" for detailed information.



The MAIN MENU

A quicker way to access the on-screen guide from the MAIN MENU or any other menu is by pressing the sey, either on the remote control or on the digital satellite receiver's front panel.

The remaining buttons provide access to those features described in greater detail throughout this chapter.

## Setup Menu

The Setup button will take you to the SETUP MENU, which provides access to infrequently changed setup options of the digital satellite receiver.

#### **Scheduler**

The Scheduler button takes you to the SCHEDULER screen, where you can program and edit events. Here, events can be programmed to occur either once or multiple times. Events on the scheduler are identified on the guide with check marks or tape symbols.

#### **Check Mail**

The Check Mail button takes you to the CHECK MAIL screen. The mail feature enables the service providers to inform you about upcoming special events, programming changes, offers, and other important information.

#### **Purchases**

The *Purchases* button takes you to the **PURCHASES** screen, where you can review your recent pay per view activity, including past and advance purchases.

# Help

The *Help* button takes you to the **ASSISTANCE** screen. It should be your first stop when you need help or have a question. Think of this feature as a quick reference manual.

#### Lock/Unlock

This bottom button displays a pop-up panel to activate or deactivate the **LOCK**. It is labeled either *Lock* or *Unlock* depending on the current status of the digital satellite receiver lock. If the digital satellite receiver is locked, you will see a small lock icon just below the date and time at the top of the screen.

# **Setup Menu**

Many functions of your digital satellite receiver can be customized. These settings may be modified and reviewed in the SETUP MENU.



The SETUP MENU

# Places to go from the SETUP MENU

The remaining buttons provide access to those features described in greater detail throughout this chapter.

## **Preferences**

The *Preferences* button takes you to the **PREFERENCES** screen, where you can customize the appearance of the on-screen guides and various menus.

#### Limits

The *Limits* button takes you to the **LIMITS** screen, where you can establish restrictions on the use of the digital satellite receiver. These restrictions include program rating limits and pay per view spending limits.

#### Chan. Lists

The Chan. Lists button takes you to the CHANNEL LISTS screen, where you can preset your favorite channel selections into four groupings. Three lists can be named and used by different household members. A fourth list is labeled "Family" and can be used to restrict access to channels to be viewed by everyone in the household.

#### TurboTune™

The *TurboTune* button takes you to the **TURBOTUNE SETUP** screen, from which you may set the channels associated with the TurboTune feature. See the chapter "Watching DIRECTV System Programming" for more information on using TurboTune. Refer to the "TurboTune" section later in this chapter for information about programming the TurboTune feature.

#### Installation

The *Installation* button takes you to the **INSTALLATION** screen, which contains utilities to facilitate installation of your satellite dish antenna. You can also evaluate your system's signal strength via the **INSTALLATION** screen.

## **VCR Setup**

The VCR Setup button takes you to the VCR SETUP screen, which is used to allow the digital satellite receiver to be able to perform unattended recording on a VCR. You will need to tell the digital satellite receiver what your VCR brand is and the code used to control it.

#### WatchWord

The WatchWord button takes you to the WATCHWORD screen, which is used to specify key words in program titles and descriptions that are of interest to you. After specifying up to eight different words, the digital satellite receiver will search for program information containing one or more of these words while the digital satellite receiver is in standby mode.

# Things to do in the SETUP MENU

# **Current settings overview**

An overview of the current settings can be reviewed without having to access each associated screen.

# **Scheduler**

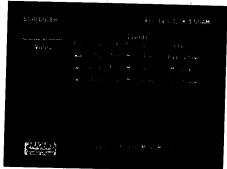
The digital satellite receiver is equipped with a SCHEDULER that allows up to 32 events to be

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

All events that have been Preselected using the **INFORMATION** screen or directly on the guides will also appear on the **SCHEDULER**'screen.

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

 Attach the VCR Control cable as described in the chapter "Setting Up Your DIRECTV System."



The SCHEDULER screen

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

# Things to do in the SCHEDULER screen

The EVENT TIMER screen displays up to seven rows of events. You can use the through the events.

There are multiple settings for the On column: a check mark  $(\checkmark)$  for viewing only, or a videotape symbol  $(\Box)$  for taping.

# **Editing an event**

The "Events" portion of the screen displays up to seven previously scheduled events at one time. If more than seven events are already scheduled, you may use either the ▼ key to scroll down to view the

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

Once you have highlighted the event you wish to set or edit, press Pop-up menu. Your options include PreSelect to View, PreSelect to Tape, Delete, and Cancel. If you choose either of the scheduling options, the digital satellite receiver will turn on (if necessary) and tune to the specified channel at the correct date and time. If you choose the Schedule to Tape option and you have successfully completed the VCR setup procedure, the digital satellite receiver will automatically record of the event. To remove a previously scheduled event, select the Delete option. If you inadvertently pressed

After choosing one of the scheduling options, a pop-up panel appears for channel selection. You can enter the desired channel using either the number keys on the remote control or the  $\triangle$  and  $\nabla$  or  $\bigcirc$  and  $\bigcirc$ .

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

Next, enter a *Start* time using either the number keys on the remote control or the  $\triangle$  and  $\nabla$  keys. Press to continue.

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

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

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

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

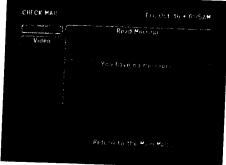
# **Check Mail**

The CHECK MAIL feature of the digital satellite receiver enables service providers to notify you

about important information, upcoming special events, offers, and other promotional programming.

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

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



The CHECK MAIL screen

# Things to do in the CHECK MAIL screen

# Message

The *Message* button will allow you to cycle through multiple messages if more than one piece of mail is available. Highlight the *Message* button and use the  $\triangle$  and  $\nabla$  keys to step through the messages.

#### **Page**

The Page button will allow you to cycle through the pages of a multi-page message. Highlight the Page button and use the  $\triangle$  and  $\nabla$  keys to step through the pages.

#### **Erase**

The *Erase* button will remove a piece of mail from your mailbox. Please be aware that once a piece of mail has been erased, it cannot be retrieved. Messages will self erase if they become outdated or if space is needed to hold newer incoming messages.

# **Purchases**

The **PURCHASE** screen displays recently viewed and advanced purchased pay per view events. You can choose between Purchase History and Upcoming Purchases by selecting the *History* button or *Upcoming* button located in the Places to Go area of the **PURCHASES** screen.

For each purchase, the event channel, title, start date and time, and cost is listed. If there are more events than can fit on the screen, use the ▼ key or advance a page at a time by pressing a to view them

If you need to discuss an event with your service provider, highlight the questioned event and press the key. An advisory message will appear containing additional information that the service provider may need.

## Places to go from the PURCHASES screen

## **History/Upcoming**

The *History* or *Upcoming* button appears only on the complementary screen. This means that if you are viewing history on the **PURCHASES** screen, you will have the *Upcoming* button offered. Conversely, if you are viewing upcoming on the **PURCHASES** screen, you will have the *History* button offered in the Places To Go area.

# Things to do on the PURCHASES screen

# **Purchase History**

The Purchase History displays recently viewed pay per view events that will be or have been charged to you. You will not see events you purchased but later canceled, or cancelable events that were purchased but which the digital satellite receiver never tuned to. Events that were ordered by directly calling the service provider will also not appear on this list. You cannot remove events from this list. Reported events will disappear from this list, as the digital satellite receiver needs space to log more recent purchases.

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

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

# **Upcoming Purchases**

The Upcoming Purchases screen displays PPV events you have purchased but not yet viewed, or purchased but never viewed. Events that were ordered by calling the service provider will not appear on this list.

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

If you would like to cancel an event, highlight the appropriate event and press etter. A pop-up panel will be displayed where you may be given the opportunity to cancel your purchase. Be aware that cancellation of some events may not be possible.

# Lock/Unlock

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

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

## **Locking Procedure**

When the Lock button is selected, the LOCK SYSTEM pop-up panel is displayed. Use the and



The LOCK pop-up panel

keys or the remote control number keys to enter a four-digit passcode of your choosing. If you enter the code using the number keys, you will not see the numbers appear on the screen. After entering a four-digit passcode, highlight and select OK to proceed. Otherwise, choose Cancel to cancel the locking process.

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

Once OK has been selected, the digital satellite receiver is locked. The button previously used to lock your system is now used to unlock your receiver. A lock symbol appears at the top of every menu screen to remind you that the digital satellite receiver is

locked.

REMEMBER YOUR CODE! You will need this code whenever you wish to override the lock or to unlock the digital satellite receiver.

# **Unlocking Procedure**

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



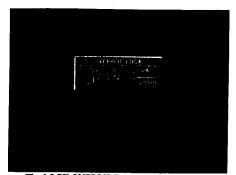
The UNLOCK pop-up panel

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

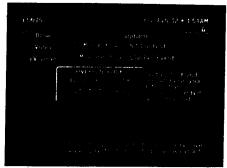
After entering the passcode, highlight and select *OK*. Otherwise, choose *Cancel* to keep the lock in effect. Once the digital satellite receiver has been unlocked, all limits and restrictions are removed!

If you forget your four-digit code, call your service provider for assistance.

# **Temporarily Overriding the Lock**



The LOCK OVERRIDE pop-up panel on video



The LOCK OVERRIDE pop-up panel on menus

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

Note: Once the correct four-digit code is entered, the digital satellite receiver will remain unlocked until you power the digital satellite receiver off. At that time all locks and limits will be enforced again.

# **Preferences**

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

You can access the **PREFERENCES** screen at any time and as often as you like to change any of these settings. Making changes cannot harm your DIRECTV System in any way.



The PREFERENCES screen

# Places to go from the PREFERENCES.screen

#### **Advanced**

When you select *Advanced*, the **ADVANCED PREFERENCES** screen will be displayed. Here, you can set options including your digital satellite receiver ID, preferred data port, phone prefix, and screen ratio. You can also reset all options to the factory default settings.

## Things to do in the PREFERENCES screen

#### **MultiColor**

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

## Chan. Tags

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

#### Chan. Sort

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

NOTE: If you sort the channels by *Name*, please take note. Using the  $\Re \mathbf{O}$  and  $\Re \mathbf{O}$  keys to step through the channels will appear to change channels a random order when, in fact, the channels are sorted and tuned to in alphabetical order.

#### **Scheme**

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

# Language

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

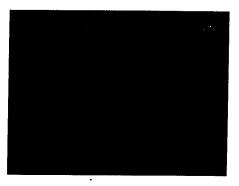
#### **Filters**

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

# **Advanced Preferences**

The ADVANCED PREFERENCES screen contains options that are less likely to require changes

once they are set. Most users will not make any changes to this screen. This screen also provides a means to reset all preference options to the factory defaults.



The ADVANCED PREFERENCES screen

# Things to do in the ADVANCED PREFERENCES screen

#### Receiver ID

Someday, you may choose to get additional digital satellite receivers. If more than one receiver is in the same room or if you are using the Remote Control Extender, you may experience interference between signals. To avoid this "cross talk," simply highlight the *Receiver ID* button and press on the remote control to be used for that specific digital satellite receiver. Remember to set your remote control to the desired code first. For information regarding changing the remote control code, see the chapter "Programming Your Remote Control."

#### **PBX Access**

In some installation environments you may need to dial a *PBX Access* to access an outside line. Commonly this is either an 8 or a 9. You may specify up to 3 digits.

Note: This is NOT the first three digits of your telephone number or area code and should be left as "- - -" if you do not need to dial numbers to obtain an off-site dial tone.

#### **Screen Ratio**

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

#### **Channel Lock**

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

# **Input Key**

The *Input Key* option allows you to enable or disable the functionality of the key on your remote control with regards to your digital satellite receiver. This is useful if you are not using the local TV pass through capability of your digital satellite receiver and want to avoid getting a snowy

picture from inadvertent presses of the key. Please note that the pass through capability happens automatically when the digital satellite receiver is powered off.

#### **Demo Mode**

The Demo Mode is a feature that is primarily intended for in-store presentations. When enabled, the digital satellite receiver will step through a variety of features and display messages describing these features. While pressing any key will allow you to regain operation of your digital satellite receiver, this is only temporary. After several minutes of non-interaction, the demonstration will begin again. To stop the demonstration mode permanently, disable the Demo Mode via this button.

## **Dolby Digital**

Warning: Before using the DIGITAL AUDIO OUT connectors with a standard PCM (i.e. not Digital Dolby) digital bitstream decoder/receiver, set the Dolby Digital option on the Advanced Preferences screen to be "Off." Failure to do this could result in a high level noise and could be harmful to your ears and equipment.

The Dolby Digital feature can be enabled or disabled for your digital satellite receiver. If you have a Dolby Digital (AC-3) decoder/processor in your entertainment system, you'll most likely want to leave this set to the default "On" setting. If your system is not Dolby Digital (AC-3) capable, but does have PCM digital audio capability, you will want to change this setting to "Off."

## **Factory Defaults**

If you ever want to reset the digital satellite receiver preferences, select the Factory Defaults button.

# Limits

The LIMITS screen provides settings to help you control the viewing restrictions of satellite

programming. These limits, when accompanied by the CHANNEL LISTS, put a great degree of control in your hands.



The LIMITS screen

# Places to go from the LIMITS screen

#### TV Timer

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

The TV TIMER feature allows you to restrict how much your digital satellite receiver is used on a daily basis. Some examples might be restricting:

- until after dinner
- only until bedtime
- a specified number of hours per day
- limited use on school nights

The timer is flexible enough to accommodate most needs of this nature.



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

For the TV Timer to be enforced, the digital satellite receiver must be locked, as described earlier in this chapter.

# Things to do in the LIMITS screen

## **Max Rating**

Program ratings indicate the suitability of a program's content for a given audience. For families with younger children, a lower rating limit may be desirable. Other

families may choose to allow viewing of more sophisticated programming. The LIMITS screen leaves this choice and control up to you.

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

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

For the rating limit to be enforced, the digital satellite receiver must be locked. Locking is described earlier in this chapter.



The RATING pop-up panel

## **Max Spending**

Pay per view access enables you to purchase special, limited-broadcast events such as sporting events



The RATING pop-up panel

and movies. You can set the maximum purchase price on a per-event basis. To change the displayed limit, highlight the *Max Spending* button and press to display the SPENDING LIMIT pop-up panel. When the digital satellite receiver is locked, the passcode will be needed to change the ratings limit.

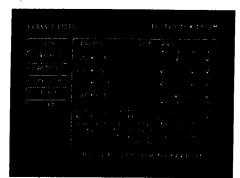
Use the number keys on the remote control to set the limit or use the and ▼ keys to increase or decrease each digit. Use the ◀ and ► keys to highlight the digit that you want to change. The maximum \*limit is \$655.

Highlight OK and press to confirm the entered amount. Selecting Cancel will leave the spending limit unchanged.

For the spending limit to be enforced, the digital satellite receiver must be locked as described earlier in this chapter.

# **Channel Lists**

Channel Lists are provided to help you organize the hundreds of available channels into groupings that



The CHANNEL LISTS setup screen

suit the needs of your household. Each list can contain as many or as few channels as you would like. You can customize these groupings in a variety of ways. For example, Fav. A could be Dad's favorite channels, Fav. B could be Mom's favorites, Fav. C could be the kids' channels, and Family could be all channels that Mom and Dad have deemed appropriate for the entire family. Each of the lists, with the exception of Family, can be renamed.

NOTE: Once the digital satellite receiver is locked, only channels in the *Family* list will be accessible.

# Places to go from the CHANNEL LISTS screen

#### Rename

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

#### **Auto Set**

AutoSet is designed to help in the initial programming of your channel lists. When you select the Auto Set button, a pop-up menu appears showing each of the channel lists. Highlight and select a channel list to be programmed. Once selected, the Auto Set Progress pop-up status panel appears. It will take several minutes for the digital satellite receiver to scan through all channels and determine which ones you are authorized to receive. The results of this scan will be stored in the designated channel list.

Note: Auto Set may exclude some channels such as the Music Choice channels or include some pay per view channels. This does not mean that the digital satellite receiver is faulty. These

channels were excluded or included due to the digital satellite receiver's analysis process. You may edit the lists manually to correct these oversights.

#### Clear

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

#### Set

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

## Things to do in the CHANNEL LISTS screen

#### **Tag Boxes**

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

In the CHANNEL LISTS screen, use the  $\P$ ,  $\stackrel{\wedge}{\longrightarrow}$ , and  $\stackrel{\wedge}{\longrightarrow}$  keys to highlight the button that corresponds to the channel number and list that you wish to change. Press the key to add or remove the check mark, which indicates that the channel in that row is included in the list shown at the top of the column.

To help you decide whether to include or exclude a certain channel, a description for that channel will appear on the screen.

Remember that when the digital satellite receiver is locked, only channels in the Family list can be viewed. This means that even though a channel appears on the Fav. A, B, C, or All Channels list, the selected channel must also be on the Family list in order to see or hear it.

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

# **TurboTune**<sup>™</sup>

The TURBOTUNE SETUP screen is used to specify which nine channels that will appear in the TurboTune pop-up panel that shows over video when sis

pressed.



The TURBOTUNE setup screen

# Things to do in the TURBOTUNE SETUP screen

#### **Set Channel**

Using the  $\blacktriangleleft$ ,  $\blacktriangleright$ ,  $\blacktriangle$ , and  $\blacktriangledown$  keys, highlight one of the nine channel boxes. You can enter the desired channel using the number keys on the remote control, or by using the  $\Re O$  or  $\Re O$ . Pressing while highlighting one of the channel boxes will also initiate a pop-up panel that will allow you to set the channel using the  $\blacktriangle$  and  $\blacktriangledown$  keys on the remote control or the digital satellite receiver's front panel.

# Installation

The INSTALLATION screen provides the utilities that makes the setup and testing of your system simple and convenient.



The INSTALLATION screen

# Places to go from the INSTALLATION screen

# **System Test**

The System Test button takes you to the SYSTEM TEST screen.

# Things to do in the INSTALLATION screen

Here, the quality of the satellite signal is automatically displayed. In addition to using this at installation time, you can use it to troubleshoot if you experience loss of signal, momentary video freezing or similar problems.

# **Transponder #**

You may want to try different transponders to troubleshoot satellite signal reception problems. Each transponder transmits multiple programs at a time. The transponder shown when the screen first displays represents the one associated with the last viewed program. By moving the highlight to the transponder area, you can enter a number from 01 to 32. Different transponders may show varying signal strengths. This is normal unless the variations are extreme (such as 40 and 90). In the event of signal reception problems, customer service representatives may ask for signal strength on a different transponder. Do not change transponders trying to find the best signal since the transponder will automatically change depending on the channel you want to view.

Another signal strength utility that you may find useful is the Cable Test that can be found in the SYSTEM TEST screen.

#### **Position**

After selecting *Position* from the **INSTALLATION** screen a pop-up menu called Alignment Mode will appear. You can enter your location by either *Align by ZIP* or *Align by LAT/LONG*. After making

your selection, the appropriate pop-up entry panel will appear. Use the ▲ and ▼ keys or use the numeric keypad to change the value of the digits. Press the ▶ key to advance or the ◄ key to back up. Once you have entered all of the correct digits, select OK. The calculated results on the proper direction to point your satellite dish antenna will be displayed.

#### **New Card**

The NEW CARD screen provides a way for service providers to distribute new access cards. Should you be issued a new card, you will need to activate it. Follow the on-screen instructions carefully to initialize it. Once the process has begun, your old access card will no longer allow viewing. You should not interrupt the process once it has begun. An interruption could cause both the old and the new card to become invalid. When the process is complete, your new access card will be usable, while the old card will no longer be valid.

# **System Test**

In the unlikely event you experience a problem with your satellite system, you can use the SYSTEM TEST screen to run a series of internal diagnostics that will provide you with basic information about the status of your system.



SYSTEM TEST screen

# Things to do in the SYSTEM TEST screen

# **Begin Test**

Depending on your test results, you may be able to remedy the problem yourself. For example, if your Access Card is reported to be missing, verify that it is facing the right direction and try reinserting it. A "No Dial Tone" message indicates that the phone line is in use or the digital satellite receiver is disconnected from the phone line. If you cannot remedy a problem yourself, call your dealer or the Customer Care Center at 1-800-274-8995 and provide the technician with a complete description of the problem and the results of the system test. The technician will assist you with additional repair information and instructions.

## **Cable Test**

When Cable Test is selected the digital satellite receiver scans through all transponders a displays the signal strength for each. If there are any detectable problems, you will be notified of the most likely cause of the problem. Otherwise, you may simply find this test to be a convenient way to analyze your signal quality.

# **VCR Setup**

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



The VCR SETUP screen

Owners of D-VHS digital video recorders should refer to the chapter "Using D-VHS Features."

# Things to do in the VCR SETUP screen

#### **Brand**

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

#### Code

More than one code may be assigned to your brand of VCR. Try each of the codes offered by using the  $\triangle$  and  $\nabla$  keys to step through each code. Alternate between this procedure and testing the code.

# Test (Record/Stop)

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

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

Be sure to test both the *Record* and the *Stop* commands, which are necessary for successful taping capability. If either *Record* or *Stop* fails to function, try other *Codes* associated with your VCR brand. If you are unsuccessful in the test process after trying all available codes, recheck your VCR Control cable connections and control cable transmitter placement.

# **WatchWord**

The WATCHWORD setup screen is used to specify up to eight different words that can be used to

identify programming of interest to you. While the digital satellite receiver is in standby mode (the power light is off, but the digital satellite receiver is still connected to power) the program titles and descriptions in the guide will be searched. Programs which contain matching words, will be included in the WATCHWORD on-screen guide.



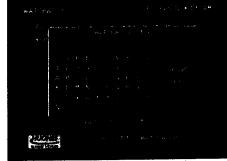
The WATCHWORD setup screen

# Things to do in the WATCHWORD screen

#### WatchWord #

Highlighting one of the eight choices and pressing will initiate a pop-up panel where you can define a search word. If "CAGNEY" and "ALIEN" were specified, the "CAGNEY" search word might find movies James Cagney performed in, as well as the TV series "Cagney and Lacey." The "ALIEN" search word might find the movie "Aliens" as well as any program which includes the word "alien" in the description. Partial words work as well.

Entering the desired words is easy using the pop-up keyboard. You can highlight the desired letter using the  $\P$ ,  $\triangleright$ ,  $\triangle$ , and  $\nabla$  keys. Press to enter the letter. Once the word in entered, choose OK.



The WatchWord pop-up keyboard

# USING D-VHS FEATURES



This digital satellite receiver has the added advantage of being compatible with the Hughes HDR-205 D-VHS video recorder. This recorder allows you to record DIRECTV System programming in the highest quality possible. This is because the D-VHS records the actual digital signal, rather than a converted analog signal. The advantage to this is that every time you play the tape back, you will be able to enjoy it in the same fidelity in which it was originally broadcast.

# **Connecting the Digital A/V Cable**

Before the features that are described in this chapter can be accessed, you must have correctly connected a D-VHS video deck to your digital satellite receiver by way of a digital A/V cable. If you connect this cable after the digital satellite receiver or D-VHS deck has been powered on, it may take several seconds for each unit to detect that the connection has been made.

With the proper connections you can have your digital satellite receiver control your VCR for unattended recording. First, you will need to plug the digital A/V cable into the back of your digital satellite receiver. Then connect the other end of the digital A/V cable to your D-VHS VCR.

# VCR Setup

The VCR SETUP screen is used to specify the record mode that you will want to use most often. This

screen replaces the VCR SETUP screen that is described in the chapter, "Your Receiver's Menu System." A D-VHS VCR and a standard VCR cannot be controlled at the same time.



The VCR SETUP screen for D-VHS

#### Things to do on the VCR SETUP screen

From the D-VHS VCR SETUP screen you can change the default *Recording Type* and review the current status of the D-VHS recorder.

## **Recording Type**

The *Recording Type* setting is for where you do not explicitly specify the recording mode for recordings initiated through your digital satellite receiver. By default, the recording setting is

"Digital." This is because you have most likely purchased a D-VHS ready digital satellite receiver and a D-VHS video deck to take advantage of the digital recording feature. If you will be recording programs that will be played back on a non-D-VHS you may choose to change this setting to "Analog EP" or "Analog SP" for compatibility. Keep in mind that whenever you schedule a recording event you can change the record type to be the different from the default, if so desired.

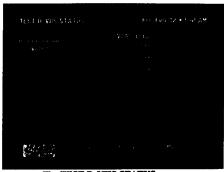
#### **Recording Speed**

The Recording Speed setting is for specifying the default speed for analog recording. See your D-VHS owner's manual to determine the benefits of the two recording speed options.

#### **Test D-VHS Status**

The Test D-VHS Status field displays the current tape transport activity.

If you press the key while the *Test D-VHS Status* button is highlighted, the **TEST D-VHS STATUS** screen will appear. The **TEST D-VHS STATUS** screen dynamically reports the current status of the D-VHS VCR. For example, the Motion Mode status will change from "Rewind" to "Stop" as the VCR stops at the beginning of the tape after a rewind operation.



The TEST D-VHS STATUS screen

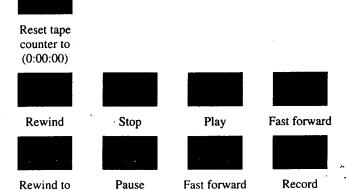
# **Transport Controls**

The D-VHS VCR pop-up control panel appears when the satellite receiver is in video mode. Pressing either the keys again, pressing the key will make the control panel disappear.

The D-VHS pop-up control panel uses familiar button icons, similar to standard VCR buttons. There is a status area on the lower portion of the control panel that displays the current VCR activity.



The D-VHS pop-up control panel



# **Status Displays**

There are several status displays that can occur when utilizing the D-VHS features of the digital satellite receiver. Take a moment to familiarize these displays and how they may differ when in the D-VHS mode from normal DIRECTV System programming. The various displays disappear automatically after a few seconds, or can be removed sooner by pressing the key.

to next index

last index

The digital satellite receiver displays a status advisory when the D-VHS VCR initiates an action and the D-VHS control panel is not being displayed. The status advisory shows the VCR activity and the tape counter or error messages.

When playing back a D-VHS recording, the CHANNEL BANNER can be displayed by pressing the time displayed in the upper right corner are associated with the time that the program was recorded, time displayed in the upper right corner are associated with the time that the program was recorded,

BANNER is displayed.

The INFORMATION BANNER can be displayed by pressing the Theorem key while the CHANNEL.

The OneLine Guide appears when you press the A and Veys. The full program guide is not available during D-VHS playback, so only the playing program's information is available.

The ALTERNATE SERVICES pop-up panel is accessible by pressing the entering the

You should be aware that initiating any of these displays while a program is being recorded digitally will not interfere with your recording. Superimposed displays are not recorded in D-VHS mode, however would be recorded if you are recording in analog mode.

## Lockout Warnings

rather than the current date and time.

During D-VHS recording or playback some features of the digital satellite receiver are disabled to prevent interruption. When you request access to one of the locked out features, a warning message is displayed. If you do not heed the warning and press the effect to you. If you do not interrupt the recording or playback and returns control of the digital satellite receiver to you. If you do not interrupt the recording or playback, press exit, or wait several seconds for the warning to disappear.

#### **EILOL Messages**

The following error messages could be displayed in an advisory message at the bottom of the screen, if applicable:

	Unable to play – digital copy protected program
Unable to play – copy protect failure	Unable to record – digital and analog copy protected
Unable to record – digital copy protected program	Unable to record – digital copy protect failure .
VCR communication error	VGB error
VCR busy	Cannot record – VCR busy
Not a D-VHS tape - will VHS record	Cannot record – protected tape
No tape in VCR	tho si newoq ROV

In addition to the D-VHS specific messages, standard digital satellite receiver messages can be displayed.

# Scheduling to Record

Scheduling for unattended recording is very much the same whether you have a D-VHS VCR or not. With a D-VHS VCR, however, you are given additional options as to whether you want to record in digital or analog mode.

Just as before, you can schedule future programs to be recorded simply by highlighting the desired program in the guide and pressing the key.

When editing an event on the SCHEDULER screen you are prompted in the Schedule Options pop-up menu as to the type of recording you wish to do: digital or analog.

Programs and events that are scheduled to be recorded are marked with a video tape icon. The analog tape icon simply looks like a video tape ( ), while the digital tape is indicated by the D-VHS "D" symbol. These icons are used on the on-screen guides and on the SCHEDULER screen.

NOTE: For all scheduled recording events, the D-VHS VCR must be in the power "off" mode and have a recordable tape of the correct type and length inserted.



D-VHS Schedule Options

# Controlling Your D-VHS VCR with Your Remote Control

This procedure assumes you are using a Hughes Network Systems or Hitachi brand D-VHS VCR. For other D-VHS VCR brands, refer to the chapter, "Programming Your Remote Control".

While holding down the "VCR" key, press the "Mute" key, and simultaneously release both keys. The light on the remote control light. If it isn't, repeat the process.

You are now in code entry mode. Simply use the remote control keypad to enter **@04**. Press the "VCR" key to lock the code in. The remote will remember the code until you reprogram it.

The VCR keys on your remote control should now operate the VCR transport functions.

For additional information regarding D-VHS VCR features, please refer to the owner's manual that accompanied your D-VHS VCR.

# PROGRAMMING YOUR REMOTE CONTROL



You can use the remote control that came with your digital satellite receiver to control other components in your entertainment system. The remote control will control your digital satellite receiver and most brands of TVs brands and VCRs.

# **Programming the Remote Control**

There are two ways to program your remote control to match you equipment: code scan and code entry. Code scan can take some time, but it avoids having to refer to this manual to program your remote control. Code entry saves some time but you will need to look up the codes assigned to the devices.

#### **Programming Mode**

Keep your remote control aimed at the device you want to control during this process. The remote control will send out the "power" command for the device being programmed.

While holding down the device key (i.e., TV) that you are programming, press the "Mute" key for one full second. Then release the keys. The device key should light and stay lit. If it doesn't, repeat the process.

Then choose either the code scan or code entry method.

#### **Code Scan**

Once you are in programming mode, repeatedly tap the RO key to step through the eodes, sending out the power command. This could take some time since there are could be many for each type of device. When your device shuts off, you have found the code. If you inadvertently go past a code that responded, or realized that you may not have been aiming the remote at the device, you can use the RO key to step backward through the codes. Press the ROWED key to verify that you haven't missed the code. In order to lock in the code, press the device key again. The remote will remember the code until you reprogram it.

## **Code Entry**

First, look up the device type and brand in the following charts. You will find a list of numbers; one or more of which should operate your device. If there is more than one code, you will need to try each of them to find the one that works best.

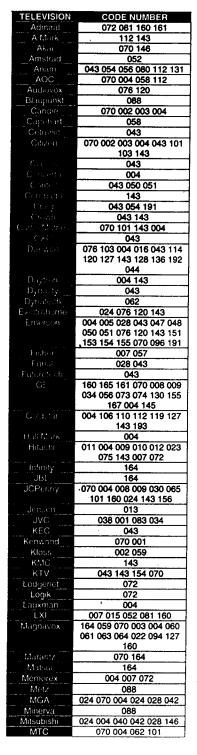
Once you are in code entry mode, enter the three-digit code. Press the device key being programmed once again to lock in the entered code. The remote



The remote control.

will remember the code until you reprogram it.

Test if the entered code matches your device by pressing the power key. If the device works, you're all set. Otherwise, repeat the process using the next code for your brand or try the code scan procedure.



TEL EVICION	CODE NUMBER
TELEVISION NAD	015 025
NEC	070 040 016 056 024 130
INEC	134 019 004
Niker	043
Onking	043
Onwa	043
Opton.ca	019 081
Panasenic	034 080 056 164
Philico	164 070 003 059 060 064
	004 056 063 024
Philips .	164 093 038 005 059 127
	070 003 004
Panent	025 070 004 018 023 190
Politica t	004 143 065
Protein	160 161 167 145 065
Outsit	004 058 131 143 171 173
Rad (Snack	034 056 080 164 004 019 043 127 143
BCA	160 161 156 165 065 070
11500	004 023 024 056 074 152
	167 145
Read state	007 019 043 047
Rubble	072 130
Sampo	070 004 058
Sansung	101 004 050 089 105 160
	127 143 133
Sanya	007 020 053 057 082
Scott	004 028 043 048 143
Se.m.	015 030 028 094 004 007
· · · · · · · · ·	057 082 143 160 167 081 004 014 019 022 028
Sharp	143 029
Siemens	088
Sgrature	072
Scoy	001 085 126 166 079
Soundeligh	028 003 004 043
Spectration	112
SSS	004 043
Supre Mady	002
Sylvania	070 003 059 060 063 064
	127 160 164 044
Symphonics	194 052 081
Tandy Tatung	056 062
Technics	034 080
Techwood	004
Teknika	002 003 004 024 028 043
	072 101 143
Telerent	072
Tera	193
Tmk	· 064
Toshiba	015 030 007 040 062 101
Universal	008 009
Video Concepts	146
Vidtech	004
Wards	060 061 063 072 074 143
	164 165
Westing House	076 120
Yamaha	070 004
Yolk	004
Yupiteru	043
Zenith	072 073 095 103
Zonda	112

VCR	CODE NUMBER
Aiwa	034

VCR	CODE NUMBER
Akai	016 043 046 124 125 142 146
Ampio	072
Anam Airet Dan aman	031
Audic Dynamics Brooksenic	012 023 039 043 035 037 044 129 152
Garten	028 031
Capathant	108
Grag   Gurt Matters	003 040 135 031 041 156
Desir	117 119 005 116 007 010
	065 108 110 112
1 1/2 1	108 156
11.	012 023 039 043
Dynamia Financia	034 053
	069 006 029 035 025 027 034
	036 037 046 101 129 131
	138 017 031 044 152 157 153
	003 008 009 010
4.25	034
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	160 064
Chrantin	067 069 031 067 012 023
Marta Marta	101 027 030
MET	031
Manager	102 101 003 010 014 031
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Malitech	024 034
NEC	012 023 043 048 039
Nordalende Optendik	043 053 054
Parasenic	070 133 031 066 161
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Portrand Quartz	108 002 014
Quasar	070 133 161 031 066
Radio Shack	123
RCA .	107 109 144 147 151 013

VCD	CODE NUMBER
VCR	CODE NUMBER
	041 034 040 156 031 140
Realistic	003 008 010 014 031 034
	040 053 054 101
Rico	058 078
Salora	014
Samsung	102 040 032 104 107 109
	112 113 115 120 122 125
	159
Sansur	043 048 135 022
Sanyo	003 010 102 007 014 134
Scott	017 037 044 129 131 112
Carre	159 003 008 009 010 013 014
Sears	
Strans	017 081 101 031 054 053
Shetom	031 054 053
Signature	034
Senv	056 057 058 003 052 149
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Searde an	034
SIS	013
Sylvania	031 059 034 067
Symphonic	034
Tarrdy	010 034
Tatung	039 043 023
Tesas	034 039 043 023
Technics	031 070
Tokoka	031 019 034 101
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Toshta	112 008 131 047 059 082
	013 042
Totovision	040 101
United h	040
Verter	012
Research	
Video Ceni cpts	012 046 034 141
Videosenio	040
Wards	003 013 024 031 034 040
	053 054 017 131
Yamaba	012 043 034 039
Zenith	072 080 056 048 034 101
	058

Aux	CODE NUMBER
Adcom	146 149 227 244
Amc	082 083 084
Arcam	100
Audio File	093 098
Audro Techinica	
Aiwa	111 114 117 156 170 199
	203 219 231 241 254
, Akal	181 233
Anam	180
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BAK	150 152
Carver	013 091 098 107 126 129
	160 163 164 220 245 249
Casses	076
Charling	151 169
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	247
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Audin	
Fighted	107 129 157 163 176
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Aud eners	
GE	216 123
Gold tar	110
Harman Karonn	073 195 248 249
Hatal	119
Hitathl	088
JCPenny	109 154 178
Jesen	099
Jerr, 1d	141
J7/C	112 198 252
Kensabert	096 104 119 125 148 151
	163 171 173 242
Kn-0	223
Lexizer	215 250
Luxman	066 071 120 134 205 206
	229
LXI	123 177
Magnayox	126 162 185 186 224 228
Marantz	074 091 105 126 128 139
	155 162 164 186 232
Mointesh	251
Mond al	069 070 077 225 226
MCS	108 178
Mitsubishi	253

Aux	CODE NUMBER
Merldian	013 067
NAD	128
Nakamichi	072 212 234 235
Niles	236
Onkyo	079 094 115 116 207 209
	211 255
Optimu	121 125 140 181
Panacoro	131 144 187 200
Paraceurid	065 086 090
Prot pro	136 186 126 197
Pigny or	087 093 132 138 210 165
	168 189 195 201 081 230
$Q_{ij}$ , $g_i$	131 187
PCA	109 213 166
District	103 122 123 124 172 174
	177 179 180 194
Q. S.	204 218 239
Example 1	196 214 126 139 075 197
\$1.50	157 129
Simaling	. 068
Sugar	142
Attanta	
800	180 190
595 mp	096 125 151 161 169 182
	193
Secretary of	089 127
Sarry	097 117 147 183 200 253
	237 238 188 192 080 063
	243
Soundo y	135
Sound to	197
891	130
Charles	141
Switz to	124
	217
Taka	102 159 180 062
Teren	131 143 184 145 187 200
	202 208 165
Testina	175
Ward	163
Yamaha	092 120 166 240 125 169
	065 216
Zenith	222 061
2.(1.111	EEE 001

# **Using the Remote Control**

Once your codes are entered, you are ready to start using your universal remote control. The device keys allow you to switch from one device to another. Some keys behave in a special way. They control one device while you are actually in another device mode. For instance, while in SATellite mode, pressing Volume +/- controls your TV's volume—not a digital satellite receiver volume. This is because the remote control knows that there is no volume control on the digital satellite receiver.

Advanced feature keys (i.e. (i.e., (i

- For Sony-brand devices, use the ALPHA key as the "Enter" key.
- For RCA-brand devices, the device key (i.e., "TV" or "VCR") might be the "power on" key and is the power off key.

## Switching the Remote Control to Operate Additional Digital Satellite Receiver

Your remote control can be reprogrammed to operate additional digital satellite receivers. This may be necessary in situations where multiple digital satellite receivers are located in the same general area and can pick up signals intended for each other.

To switch the remote control, simply press and hold the key while entering the receiver ID. The receiver ID can be 001 through 008. Do not forget the two zeros. Remember to access the ADVANCED PREFERENCES screen using the keys on the front of the digital satellite receiver to pair it with the remote control.

#### **Identifying Codes that Have Been Stored**

You can determine the codes that are stored in your remote control. This may be useful for reprogramming additional remote controls later on.

- 1. Press the device key and the "Mute" key simultaneously.
- 2. Press the key and count the number of times the red light on the top of the remote control blinks. Each digit of the three-digit code is separated by a 3-second period the light is off. For example, if the code number is 021, the light will blink 10 times (for "0"), pause three seconds, blink twice, pause three seconds, and blink once.

#### **Controlling Other Components Using the AUX Button**

Some additional features are available when the remote control is in the AUX mode.

#### Volume Control in AUX Mode

Note that when the remote control is in TV, VCR, or SAT mode, the volume keys control the sound volume for the television. When you're in AUX mode, if your auxiliary component has audio output, the volume keys control that component's sound volume. If your auxiliary component doesn't have audio output, you can program the volume button so that it continues to control the TV volume when your remote control is in AUX mode:

- 1. Press the "AUX" key and the "Mute" key simultaneously.
- 2. Press the "Volume Up" key.

Once you perform these steps, whenever your remote control is in AUX mode the volume keys will control the television volume. In the event that you reprogram the "AUX" key to control a different component at some future time, you can restore the remote control's capability to control the auxiliary component's volume by simply repeating these two steps.

#### VCR Function in AUX Mode

The VCR function keys (Play, Rew, FF, Stop, Pause, and Rec) on the remote control perform those VCR functions when the remote control is in TV and DIRECTV System, as well as VCR, mode. However, if you program the AUX key to control a component that does not need or use these functions, you can program the remote control to maintain VCR functionality in AUX mode.

- 1. Press the "AUX" key and the "Mute" key simultaneously. "
- 2. Press the "Volume Down" key.

Once you perform these steps, whenever your remote control is in AUX mode the VCR function keys will continue to control the VCR. In the event that you reprogram the AUX key to control a different component that need use of the keys, simply repeat these two steps.

#### Assigning a Device to a Different Device Key

You can assign a component to a mode key that has a different label. For example, you can assign a second TV to the AUX key.

- 1. Begin the programming process as described earlier. (i.e. Press "TV" and "Mute" keys simultaneously or "VCR" and "Mute" keys simultaneously.)
- 2. Once you have established the correct code, either by scanning or direct code entry, do not press the device key to lock in your code.
- 3. Press the "AUX" key to store the code onto the "AUX" key

# QUESTIONS AND ANSWERS



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

- O I had a signal but now I am getting a message "Searching for satellite signal. To access related utilities, press SELECT." What happened? A Rain clouds and snow can affect the satellite signal reception. This loss of signal is temporary. Also check for new growth on trees and bushes that could be blocking the signal. One other possibility is that the wind or someone has moved the satellite dish antenna. O Why can't I control my TV? A Before you can control your TV, VCR, or any other device, besides your digital satellite receiver, you must program your remote control to match your different devices. See the chapter, "Programming Your Remote Control" in this manual for specific instructions. If you have already successfully programmed your remote control, try pressing the appropriate device key to put your remote in the proper mode. Then try controlling that device. Also, make sure that the batteries in the remote control are good. Q Why doesn't my digital satellite receiver respond when I press keys? A Unplug your digital satellite receiver for 30 seconds, then plug it back in. Since your digital satellite receiver is a computing device it is susceptible to erratic changes in power and, or signal, just as any other computer, and these sudden changes can cause it to become "confused." Q Why do some channels look good, while others freeze or indicate that no signal is available? A The most common causes for this behavior relate to the cable between your digital satellite receiver and the satellite dish antenna. Confirm that RG-6 (not RG-59) cable is used and does not exceed 100 feet in length. Longer cable runs require amplification. This special amplifier is available from your dealer. Q How can I watch one satellite program while recording another? A With only one digital satellite receiver, unfortunately, you can't. Each receiver can only
- I'm getting a message to call an extension. Why?
   There are many different reasons for this. If you want to watch the channel that is displaying the message, call the service provider for assistance. For channels below 900, call DIRECTV

decode one channel at a time.

the message, call the service provider for assistance. For channels below 900, call DIRECTV at 1-800-DIRECTV (347-3288). For channels in the 900s, call USSB at 1-800-204-USSB (8772).

Q Why don't I have an on-screen offer to purchase pay per view programs? A There are three possibilities; your digital satellite receiver must be connected to a phone line and it is not, or your service provider doesn't realize that your phone line is connected, or your service provider has disabled your ability to make on-screen purchases. Call your service provider, at either 1-800-DIRECTV (347-3288) or 1-800-204-USSB (8772), for assistance. Q Can I receive my local TV programs through my digital satellite receiver? A To receive local programming you will need either a traditional antenna (i.e. roof mounted, attic mounted or rabbit ears) or "lifeline" cable TV. Connect this signal to the IN FROM ANTENNA on the back of your digital satellite receiver. Use the INPUT key to switch between satellite programming and local programming provided on the OUT TO TV connector. Q If I have questions about my DIRECTV System or need to have it serviced, who should I A For issues regarding your equipment, contact us directly at 1-800-274-8995. If you would like, call your dealer first. They are most familiar with your installation and needs. Also, they are likely to be local to you. If you are needing assistance with your subscription, such as adding channels, contact the service provider. For channels below 900, call DIRECTV at 1-800-DIRECTV (347-3288). For channels in the 900s, call USSB at 1-800-204-USSB (8772). Q I think I set an event to record on my VCR, but when I played the tape back nothing was there. What could be wrong? A There are several possible reasons for this. First, check that the VCR was programmed correctly and left turned on (note: off for D-VHS installations) and the input matches the output from your digital satellite receiver. Also, confirm that you were authorized to tape the chosen program. 0 I picked up my telephone and it was making a hissing and squealing sound. Why? A Your digital satellite receiver was reporting any pay per view activity that may have occurred to the service providers. This happens very rarely and lasts for only a minute or so. 0 What if my question isn't listed here?

Call your dealer or the Customer Care Center at 1-800-274-8995. We will do our very best to

A

answer your questions.

## LIMITED WARRANTY

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

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

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

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

#### **PROVISIONS**

Your HNS DIRECTV System equipment (the satellite dish antenna, the digital satellite receiver, and the remote control) is warranted against defects in materials, workmanship for parts and labor:

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

This limited warranty does not cover:

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

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

#### SERVICE

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

#### **RETURN PROCEDURES**

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

- contact your authorized HNS dealer or call our Customer Care Center to find the authorized service center nearest you.
- choose the "replace after receipt" option, whereby you must ship HNS your defective equipment and, once your unit is received, a
  new or refurbished unit (at the sole discretion of HNS) will be shipped to you.

OI

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

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

#### PACKING INSTRUCTIONS FOR EQUIPMENT TO BE RETURNED

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

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



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