## Warning and Attention Symbols

You must be aware of safety when you install and use this system. This *User Guide* provides various procedures. If you do some of these procedures carelessly, you could injure or kill yourself or damage equipment or property. Some other procedures require special attention.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

## For Your Safety

Do not try to open the case. There is risk of electrical shock, which may cause damage to the apparatus and/or personal injury or death to you. There are no user-serviceable parts inside. Opening the case or making unauthorized changes will void the warranty.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

## Important Software Notice

As with all software controlled products, unexpected behavior could arise if the user tries to perform operations in a non-routine manner. This product, like almost any other high tech product, is subject to bugs and hence DISH Network CANNOT AND DOES NOT GUARANTEE OR WARRANT THAT ALL FEATURES, SUCH AS PARENTAL CONTROL, WILL WORK AS INTENDED UNDER ALL CIRCUMSTANCES. In compliance with the terms of the GNU Public License (GPL), DISH Network is making some source code available to the public to download from www.dishnetwork.com.

## Equipment and Software Covered by this Guide

This *User Guide* covers the DTVPal DVR Digital Television Receiver/DVR. This *Guide* may cover other devices, not listed here. The information in this *User Guide* may change without notice. We may issue revisions to tell you about such changes.

## Copyright Notice

# SAFETY

## IMPORTANT SAFETY INSTRUCTIONS

## PROPER CARE OF YOUR EQUIPMENT

**SAFETY**

# Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

    Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
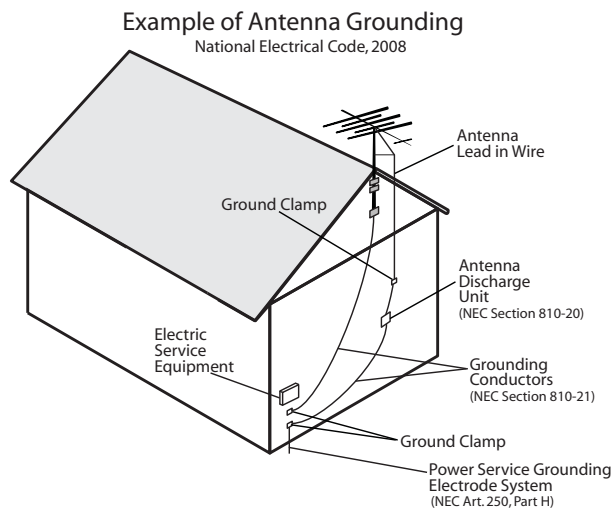
# IMPORTANT SAFETY INSTRUCTIONS

- Locate the DTVPal DVR in an open, well-ventilated area. Do not place the DTVPal DVR in an enclosure (such as a cabinet) without proper ventilation.

- Do not impede ventilation by covering the ventilation slots (such as with magazines, curtains, tablecloth, etc.), or the DTVPal DVR will overheat.

- Do not stack the DTVPal DVR on top of or below other electronic devices as this can cause heat build-up and vibration.

- Do not install the DTVPal DVR in any area where the temperature can be less than 40°F or more than 113°F, and do not cover it.

- Connect the power plug to an outlet having a safety ground connection. The power plug must be readily accessible so that the equipment can be easily disconnected from the AC power.

- Operate the DTVPal DVR using only the type of power source indicated on the marking label. Unplug the DTVPal DVR power cord by gripping the power plug, not the cord.

- Do not overload wall outlets or extension cords — this can result in a risk of fire or electrical shock.

- Never insert objects of any kind through openings into the DTVPal DVR, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.

- Do not attempt to service the DTVPal DVR yourself, as opening or removing covers may expose you to dangerous voltage, and will void the Limited Warranty. Refer all servicing to authorized service personnel.

- Unplug the DTVPal DVR from the AC power outlet before cleaning. The DTVPal DVR is still connected to the AC power whenever it is plugged in to a live power outlet, even if the DTVPal DVR is turned off using the remote control.

SAFETY

# IMPORTANT SAFETY INSTRUCTIONS (continued)

- Do not place naked flame sources such as lighted candles on or near the DTVPal DVR.
- Do not expose the remote control batteries to excessive heat or fire.

**Note to Installer:** This reminder is provided to call the installer's attention to Article 810 section II of the *National Electrical Code (NEC)* that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Example of Antenna Grounding
National Electrical Code, 2008

Antenna
Lead in Wire

Ground Clamp

Antenna
Discharge
Unit
(NEC Section 810-20)

Electric
Service
Equipment

Grounding
Conductors
(NEC Section 810-21)

Ground Clamp

Power Service Grounding
Electrode System
(NEC Art. 250, Part H)

Do not locate the antenna near overhead light or power circuits, or where it can fall into such power lines or circuits. When installing the antenna, take extreme care to avoid touching such power lines or circuits, as contact with them can be fatal.

# PROPER CARE OF YOUR EQUIPMENT

- Always handle the DTVPal DVR carefully. Excessive shock and vibration can damage the hard drive.
- Always turn the DTVPal DVR off, unplug it, and then let it sit idle for at least 30 seconds before moving it.
- If the DTVPal DVR is cold to the touch, do not plug it in immediately. Let it sit unplugged at room temperature for at least 45 minutes before plugging it in.
- The use of accessories or attachments not recommended by the DTVPal DVR manufacturer will void the Limited Warranty.
- Use an outlet that contains surge suppression or ground fault protection. During an electrical storm or when the DTVPal DVR is left unattended and unused for long periods of time, unplug the power cord from the wall outlet, and disconnect the lines between the DTVPal DVR and the antenna. This will provide additional protection against damage caused by lightning or power line surges.
- In some TVs, the presence of fixed images for extended periods of time may cause permanent imprints on the screen. Consult your TV's manufacturer and user manual to determine if this is an issue for your TV.

**SAFETY**

# Watching TV

- GETTING STARTED
- USING THE REMOTE CONTROL BUTTONS
- OPTIONS FOR VIEWING TV
- SETUP MENU
- DVR MENU
- PREFERENCES MENU
- TIMERS MENU
- CONTROLLING LIVE TV
- RECORDING MY PROGRAMS
- USING DOLBY® DIGITAL SURROUND SOUND

# Watching TV

## Getting Started

# GETTING STARTED

Welcome! Your new high-definition, digital video recording, over-the-air receiver is a powerful, yet easy-to-use device you'll enjoy!

## Connecting DTVPal DVR to Your TV

**IMPORTANT SAFETY NOTE:** Do not connect your TV or your DTVPal DVR to a power supply until after you have properly connected all of the cables using the following instructions.

To connect your DTVPal DVR, start with the antenna:

1. On the back of your TV, locate the **ANTENNA IN** connection, which connects your TV to your over-the-air antenna. This connection may be labeled **OVER-THE-AIR ANTENNA IN**, **CABLE IN**, **COAX IN** or another name. Refer to your TV's user guide for help locating this connection.

2. Disconnect the coaxial cable from your TV's **ANTENNA IN** connection.

**Note:** If your TV uses twin-lead (300 ohm) connections, you will need to obtain and install a 75 ohm to 300 ohm converter on your TV. This converter can be found at most consumer electronics stores.

3. Look at the back of your DTVPal DVR, and locate the **OVER-THE-AIR ANTENNA IN** connection. Connect the coaxial cable from step 2 to the **OVER-THE-AIR ANTENNA IN** connection on the DTVPal DVR.

**Important:** *Do not use a wrench to tighten this connection.*

Determine the connection type you'll use to connect your DTVPal DVR to your TV. If your TV has:

- a HDMI connection, you can use a HDMI cable to provide both high-definition video and stereo audio to your TV's compatible input (go to step 4).

- component connectors (Y/Pb/Pr) for video, you can use a set of component cables for video and either a Dolby Digital optical audio cable, or a pair of RCA-type audio cables (one right and one left), to connect to your TV's corresponding audio input (go to step 5).

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SPECS & INSTRUCTIONS SUBJECT TO CHANGE
WITHOUT NOTICE

- RCA connectors for both stereo audio and video, you can use RCA cables to connect from the **R-AUDIO-L--VIDEO** connection (RCA-type) on your DTVPal DVR to your TV's video input (go to step 6).

- an **ANTENNA IN** connection that uses a coaxial cable, you can connect it to the **TV SET OUT** connection on the DTVPal DVR, and it will provide both standard video and mono audio on RF channel 3 or channel 4 (go to step 7).

Connection
From Antenna

Optional RCA-type
Audio Connection

HDMI Connection
To Television
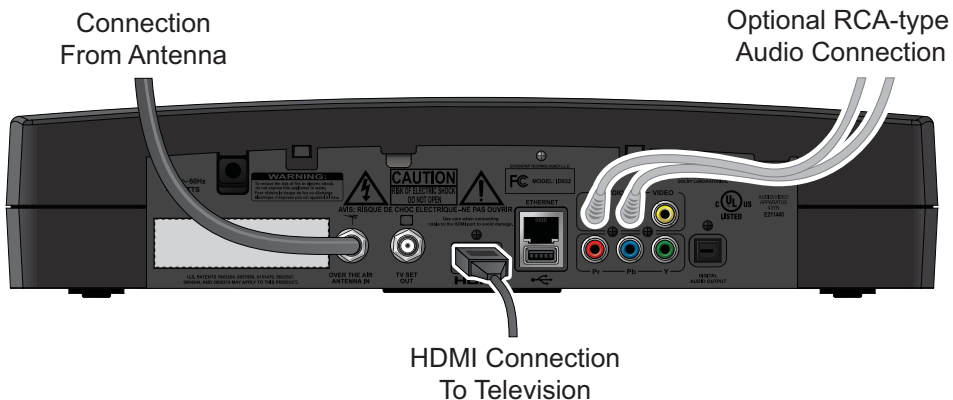
4. To connect your DTVPal DVR to your TV using a HDMI cable:

- Connect a HDMI cable between the **HDMI** connection on the DTVPal DVR and the HDMI connection on your HDTV or monitor.

- Plug the power cord of the DTVPal DVR into an electrical outlet. Make sure your TV is also plugged in to power and turned on.

- The DTVPal DVR first displays a startup screen.

- Confirm that you are getting a picture from the DTVPal DVR. Consult your HDTV user's guide if you need to change your HDTV's settings to display from the HDMI input.
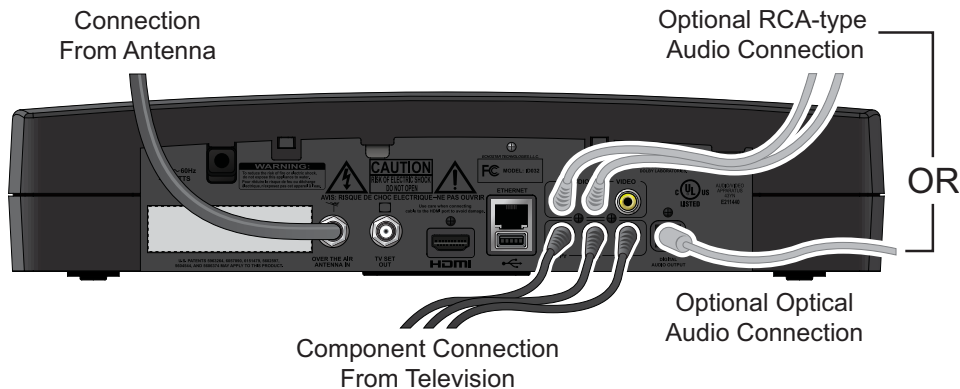
**Note:** In most cases, connecting the HDMI cable provides plug-and-play control of the monitor's display resolution and other settings. However, your HDTV may require selecting a different format to display video from the DTVPal DVR during system setup.

## Getting Started

- Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your DTVPal DVR. Tune to live TV.

- Turn up the volume on your HDTV and confirm you have sound. OPTIONAL:  If you don't have sound, your system may require you to connect a pair of RCA-type audio cables (one red and one white) between the DTVPal DVR's audio outputs and your TV's audio input connections.

Connection From Antenna

Optional RCA-type Audio Connection

OR

Component Connection From Television

Optional Optical Audio Connection

5.  To connect your DTVPal DVR to your TV using component cables (red, blue, and green connections):

- Connect a set of component cables from the DTVPal DVR's **YPRPB** (Red, Blue, and Green) component connections to your TV.

- Connect audio (red and white) RCA-type cables between the DTVPal DVR's audio outputs and the audio input connections that go with the **YPRPB** video connectors on your HDTV. You can also use the optional optical connection if you use a device to decode Dolby Digital audio, for example for 5.1-channel surround sound.

- Plug the power cord of the DTVPal DVR into an electrical outlet. Make sure your TV also is plugged in to power and turned on.

- The DTVPal DVR first displays a startup screen.

- Confirm that you are getting a picture from the DTVPal DVR. Consult your HDTV user's guide if you need to change your HDTV's settings to display from the component video input.

- Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your DTVPal DVR. Tune to live TV.

- Turn up the volume on your HDTV and confirm you have sound. If you don't have sound, verify the connections for both left and right RCA-type audio cables on the back of your DTVPal DVR and TV.

Connection From Antenna

RCA-type Audio/Video Connection To Television

6. To connect your DTVPal DVR to your TV using composite A/V cables (red, white, and yellow RCA-type):

- Connect a set of composite cables to your TV's RCA-type composite inputs.

- Connect the other ends of the cables to the **R-AUDIO-L--VIDEO** (RCA-type Audio/Video) connections on your DTVPal DVR.

- Plug the power cord of the DTVPal DVR into an electrical outlet. Make sure your TV also is plugged in to power and turned on.

- The DTVPal DVR first displays a startup screen.

- Confirm that you are getting a picture from the DTVPal DVR. Consult your TV user's guide if you need to change your settings to display from the correct video input.

- Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your DTVPal DVR. Tune to live TV.

- Turn up the volume on your TV and confirm you have sound. If you don't have stereo sound, verify the connections for both left and right RCA-type audio cables on the back of your DTVPal DVR and TV.

## Getting Started

Connection
From Antenna

Coaxial Cable Connection
To Television
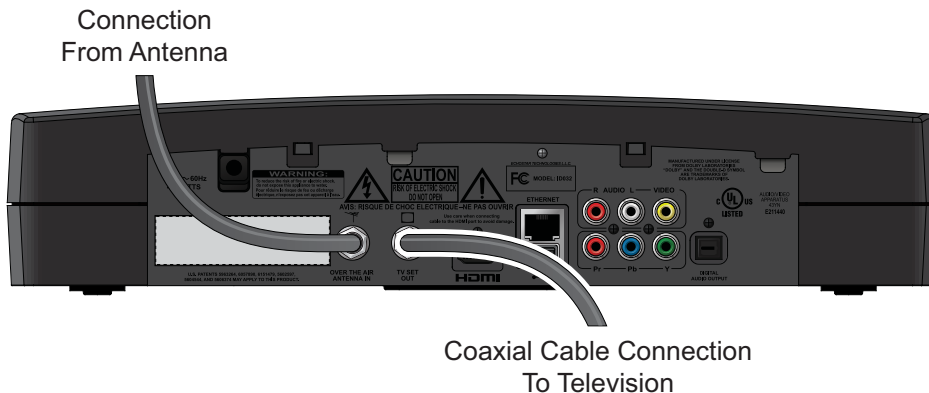
7. To connect your DTVPal DVR to your TV using a coaxial cable:

- Connect one end of coax to the TV's **ANTENNA IN** (or **CABLE IN**, **COAX IN** or another name) connection.

- Connect the other end of the coax cable to the **TV SET OUT** connection on your DTVPal DVR.

- Plug the power cord of the DTVPal DVR into an electrical outlet. Make sure your TV also is plugged in to power and turned on.

- The DTVPal DVR first displays a startup screen.

- Confirm that you are getting a picture from the DTVPal DVR. You may need to select a different channel or input source on your TV. If you do not see the DTVPal DVR screen on the default output channel, channel 3, try tuning your TV to channel 4. You can change this default for DTVPal DVR in Setup Wizard, on page 8.

- Follow the instructions for *Using the Setup Wizard* on page 6 to complete the initial setup of your DTVPal DVR. Tune to live TV.

- Turn up the volume on your TV and confirm you have sound. If you do not have sound, check both ends of your coax connection.

## Using the Setup Wizard

To finish installing your DTVPal DVR:

1. If you have not already done so, turn on your TV and change to the correct channel or input to view your DTVPal DVR.

- If your TV is connected to your DTVPal DVR using the coaxial connection (step 7), set the TV to channel 3, which is the default output channel for the DTVPal DVR.

**Note:** If you have a local channel that broadcasts on channel 3, you can change the modulator output setting for your DTVPal DVR to channel 4 during this Setup Wizard, described below.

- If your TV is connected to your DTVPal DVR using any other type of connection (steps 4-6), you will need to set the TV to the correct video input or source. Most TV remote controls have an INPUT, SOURCE, or TV/VIDEO button that you can use to change the TV's video input or source. Refer to your TV's user guide for additional help changing the TV's input or source for the DTVPal DVR.

2. Ensure that your over-the-air antenna is connected to your DTVPal DVR and the antenna is positioned where it can receive local digital broadcasts. If you need help choosing or installing an over-the-air antenna, refer to www.antennaweb.org or your local retailer.

3. Install the included AAA batteries in the DTVPal DVR remote control. Be sure to follow the battery installation diagram printed inside the remote control's battery compartment.

4. The first time your DTVPal DVR turns on, a Setup Wizard screen appears and guides you through the system setup process. The wizard scans for local digital over-the-air channels, and helps you set up the settings for your local area and TV display.

5. To navigate through the Setup Wizard, use the SELECT button on your remote control to confirm the highlighted (orange) onscreen option. To highlight other options, use the ARROW buttons.

**Tip:** If there is a particular digital channel you would like to use to optimize the position of your antenna, you may select it by clicking **Point Antenna** instead of **Continue** on the first screen of the Setup Wizard.

6. Select **Continue** to begin the wizard. The Setup Wizard immediately begins trying to find channels and add them to your system. (If you have previously run the wizard, then any currently stored channels will be removed.)

## Getting Started

7. After the channel scan is complete, you are prompted for information; use the UP and DOWN ARROW and SELECT buttons to complete the setup of your DTVPal DVR. (Select **Next** to go to the next setting or **Back** to go to the previous setting. Select **Help** to view on-screen help for the setting.)

   - Select your local time zone, and whether your area observes Daylight Savings Time (DST).

   - Use the NUMBER PAD to enter your complete ZIP Code, which is required to retrieve the proper Program Guide data for your area.
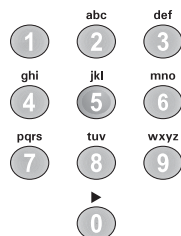
   **IMPORTANT:** *If you do not enter your ZIP code correctly, then the information in your on-screen Program Guide will be inaccurate or incomplete.*

   - Choose the resolution your HDTV supports (480p, 720p, or 1080i) and its aspect ratio (traditional 4 x 3, or "widescreen" 16 x 9).

   - Choose the SD output type if you do not have a TV that supports any of the HD resolutions.

   - Set the channel 3 or 4 output setting (if you're using the coaxial connection to your TV). If you have a local or cable channel that broadcasts on channel 3, be sure to change this setting to channel 4. If you do this, you will also need to set your TV's channel to 4.

8. The Setup Wizard will ask you to wait until it finishes downloading Program Guide data, and then will exit to display live digital TV.

9. Congratulations! Your DTVPal DVR is now installed and ready to use! To start watching TV, press either the UP or DOWN ARROW buttons on the remote control to change channels, or enter the channel number using the NUMBER PAD.

**Note:** Some broadcasters choose to send several digital channels in their broadcast range rather than just a single channel. These additional channels are referred to as sub-channels, and are identified by a dash, followed by a number (for example, channel 9-2 is a sub-channel of channel 9). On the NUMBER PAD, enter "00902" to change directly to channel 9-2, for example.
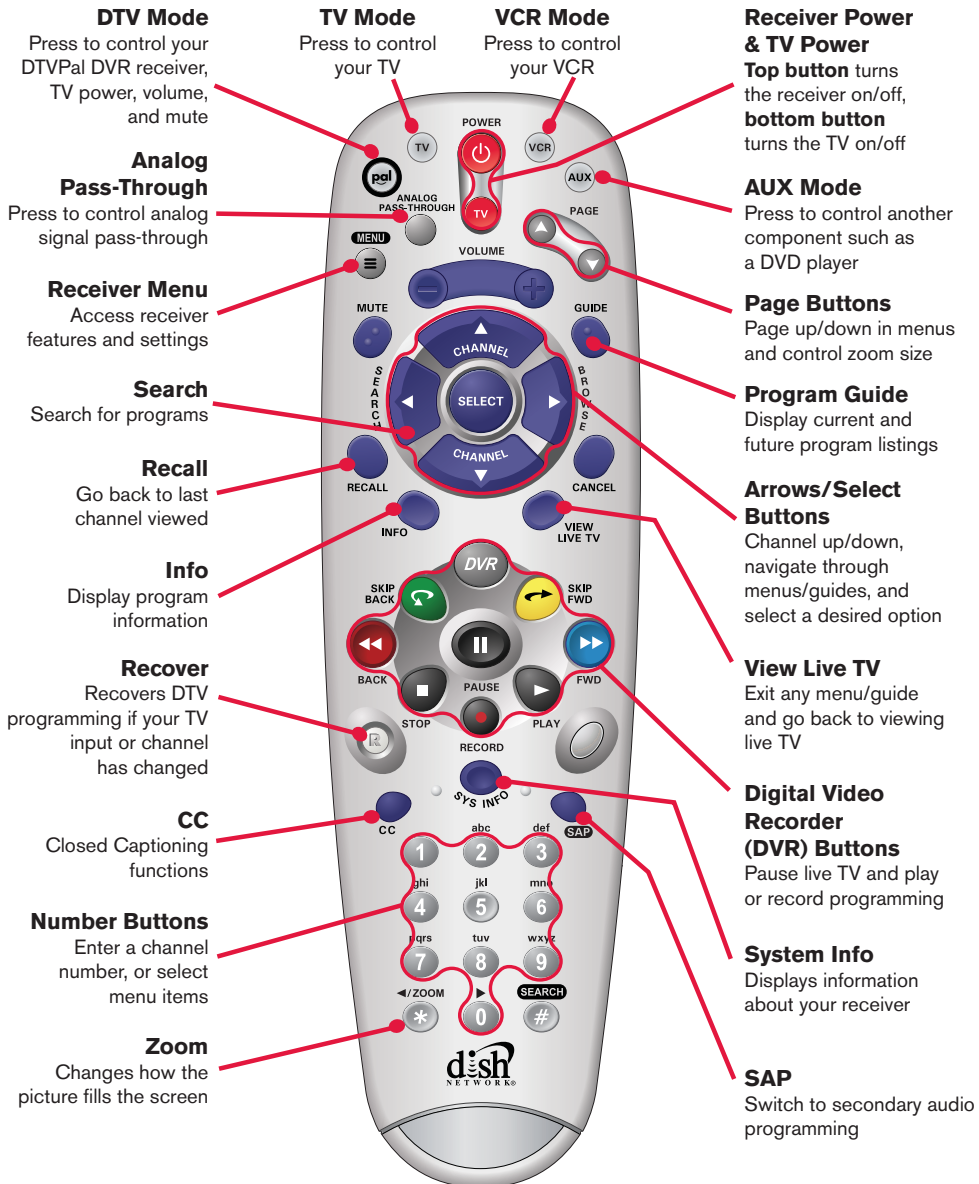
## Using the Remote Control Buttons

**DTV Mode**
Press to control your DTVPal DVR receiver, TV power, volume, and mute

**TV Mode**
Press to control your TV

**VCR Mode**
Press to control your VCR

**Receiver Power & TV Power**
**Top button** turns the receiver on/off, **bottom button** turns the TV on/off

**Analog Pass-Through**
Press to control analog signal pass-through

**AUX Mode**
Press to control another component such as a DVD player

**Receiver Menu**
Access receiver features and settings

**Page Buttons**
Page up/down in menus and control zoom size

**Search**
Search for programs

**Program Guide**
Display current and future program listings

**Recall**
Go back to last channel viewed

**Arrows/Select Buttons**
Channel up/down, navigate through menus/guides, and select a desired option

**Info**
Display program information

**View Live TV**
Exit any menu/guide and go back to viewing live TV

**Recover**
Recovers DTV programming if your TV input or channel has changed

**Digital Video Recorder (DVR) Buttons**
Pause live TV and play or record programming

**CC**
Closed Captioning functions

**System Info**
Displays information about your receiver

**Number Buttons**
Enter a channel number, or select menu items

**Zoom**
Changes how the picture fills the screen

**SAP**
Switch to secondary audio programming

# Watching TV

## Options for Viewing TV

### Navigating the Menus

**MENU**

≡

1. Press MENU to see the DTVPal DVR Main Menu. You can access most features from here. We'll show you other short cuts later.

2. Use the UP or DOWN ARROWS to move through the menu options. Or, enter the option number using the NUMBER PAD.

3. Press SELECT to choose a highlighted menu option.

4. Exit a menu by choosing **Cancel** from the on-screen options, or press CANCEL on the remote control.

**CANCEL**

5. Press VIEW LIVE TV to exit all menus and view current programming.

**VIEW LIVE TV**

**Note:** In this Guide, we'll say "select" to mean move the highlight to the item and press SELECT on the remote control.

**SELECT**

#### Understanding SD & HD

- Using this HDTV over-the-air receiver, you can view and record both standard-definition (SD) and high-definition (HD) digital programming.

- You can view upconverted SD and native HD over-the-air digital broadcasts on a connected HDTV.

- You can view both native SD and down-converted HD programming on a connected SDTV.

## OPTIONS FOR VIEWING TV

### Finding a Program: Overview

#### Channel Up/Down

While watching live TV, use the UP and DOWN ARROWS to change channels one at a time.

## Options for Viewing TV

### Direct Entry

Tune to a specific channel number by entering it using the NUMBER PAD. To change directly to a sub-channel number, for example 8-3, enter a zero before the number, for example "00803".

## Program Guide

**GUIDE**

- Press GUIDE to open the Program Guide and view the listing of current programs and programs scheduled to air over the next seven days.

**Note:** Last-minute changes made to programming information and schedules may not always be reflected in Program Guide data.

- Highlight a program to see information, or press INFO for more details.

- Change channels by highlighting a current program and pressing SELECT.

**RECORD**

**PAGE**

- Set up recordings for future events by highlighting a future program and pressing SELECT or RECORD. See *Recording My Programs* on page 14 for more information.

- Press PAGE UP/PAGE DOWN to view a set of channels one page at a time.

**SKIP FWD**

- Move forward, then back in time through the guide by:

**SKIP BACK**

  - Press the SKIP FORWARD button to move ahead 24 hours; press SKIP BACK to move back 24 hours.

  - Use the NUMBER PAD to enter the number of hours to move ahead, and then press the RIGHT ARROW. Once you've moved forward, then you can use the NUMBER PAD to enter the number of hours to move back, and press the LEFT ARROW.

**Note:** You cannot move backward in the guide to the past.

  - Press CANCEL or VIEW LIVE TV to view current programming.

**CANCEL**

**VIEW LIVE TV**

# Watching TV

## Options for Viewing TV

### Browse Banner

The Browse Banner allows you to watch a program while looking at program information on other channels.

- While watching a program, press the RIGHT ARROW to open the Browse Banner.

- The current program's information is displayed at the top of the screen.

- The bottom left of the Browse Banner displays information about the current program on each channel you change to. Use the UP or DOWN ARROWS to change the channel information, and the SELECT button to change channels.

- On the bottom right, move the highlight using the RIGHT ARROW to see what shows are coming on in the future on that channel.

### Event Search

Event Search allows you to find programs available in the Program Guide by a keyword within the Title, the Description, or either one. While watching a program, press the LEFT ARROW to open the Event Search screen.
You can also press MENU and then select Event Search from the Main Menu.

**REMOTE CONTROL SHORTCUT**: Press SEARCH (#) to open the Keyword search screen.

#### Searching for Specific Keywords

1. Enter a search term by using the on-screen keyboard, or entering letters using the remote control NUMBER PAD.

2. Select **Done** and then results matching your keyword are displayed.

3. If you want to use different options for this search then previous searches, select **Options** and then choose:

   - **Title** to search by program title, **Description** to search in the Program Guide descriptions, or **Title/Description** to search both.

   - **Exact Match** for a very specific search just on your keyword(s).

4. If you chose different search options, the results update automatically.

#### History

Choose **History** to perform new searches using keywords or other criteria you have previously used and saved on the Event Search screen. Note that you must select "Save" after a search to see that search in the History list.

# SETUP MENU

Press MENU, and then select **Setup** to use the Setup Menu to:

- Set and reset password-protected locks, either based on programming ratings or on a channel-by-channel basis.

- Run the Setup Wizard again, or change any of the system settings you selected when the wizard ran previously. You can even restore the system to the factory defaults from before the wizard was run.

- Change the primary/alternate language and audio output settings.

# DVR MENU

Press DVR or press MENU and select **DVR** to access many digital video recording features.

## My Recordings

Displays all of the programs you have recorded on the DTVPal DVR. See *Recording My Programs* on page 14 for more details. Select **Options** to change the way the list of recordings is sorted. **REMOTE CONTROL SHORTCUT**: Press DVR once to open the DVR Main Menu. Press DVR twice to open the My Recordings list.

## Daily Schedule

Displays all the timers you have set, for today or the future. Select **Timers** to go **Create** a new event timer, or to **Edit** or **Delete** an existing timer. See *Setting Up Timers* on page 14 for more details.

# CONTROLLING LIVE TV

You can use the DVR buttons on your remote control to control live TV. While watching live TV:

- Press PAUSE to pause a live program for up to one hour. Press PLAY to continue watching the program or press VIEW LIVE TV to catch up to real time.

**PAUSE**

- Press SKIP BACK to jump back in the program by 10 seconds.

**13**

## Recording My Programs

- Press SKIP FORWARD to jump ahead by 30 seconds if you've paused or reversed the program.

- Press BACK one to four times to fast reverse, or FWD one to four times to fast forward, at one of four different speeds: 4x, 15x, 60x, or 300x. Press PLAY to continue watching the program from any point.

**PLAY**

- Press PAUSE. then BACK or FWD for slow motion at 1/15th normal speed, and BACK or FWD a second time for 1/4th normal speed. Press BACK or FWD a third time to return to normal speed.

**BACK**

- Press PAUSE, then SKIP BACK or SKIP FWD to move frame-by-frame.

**FWD**

- At any time, you can press VIEW LIVE TV to catch up to real time in the programming.

**VIEW LIVE TV**

See also *Finding and Watching Recorded Programs* on page 15 for DVR functionality with recorded events.

# RECORDING MY PROGRAMS

## Recording What You're Watching Now

To record a program you are currently watching, press RECORD. Select **OK** to start recording the current program now until it ends. The program will be stored on the DTVPal DVR. To stop recording a program that you are watching, press STOP, and then select **OK**.

**RECORD**

**STOP**

## Setting Up Timers

Use a timer when you want to view or record a future program. There are two types of timers:

- **DVR** – Records a program to your DTVPal DVR hard drive.

- **Auto Tune/Reminder** – Displays an on-screen reminder when your program is about to start. In addition, Auto Tune changes channels.

**Tip:** Your DTVPal DVR records programming whenever it is plugged in. The green front-panel light can be on or off when recordings are being made.

**Note:** HD programs require up to six times more space than SD programs, and will fill up the capacity of the DTVPal DVR faster.

## Finding and Watching Recorded Programs

### My Recordings List

Press DVR and select **My Recordings** to view your list of recorded programs.
**REMOTE CONTROL SHORTCUT**: Press DVR twice.
While watching a program from the My Recordings list:

- Press PAUSE to pause the program. Press PLAY to continue watching the program.

- Press SKIP BACK to reverse by 10 seconds.

- Press SKIP FORWARD to jump ahead by 30 seconds in the program.

- Press BACK one to four times to fast reverse, or FWD one to four times to fast forward, at one of four different speeds: 4x, 15x, 60x, or 300x. Press PLAY to continue watching the program from any point.

- Press PAUSE, then either BACK or FWD for slow motion.

- Press PAUSE, then either SKIP BACK or SKIP FWD one or more times to move frame-by-frame.

   **CAUTION:** On some TVs, the presence of fixed images for extended periods of time may cause permanent imprints on the screen.

## PREFERENCES MENU

Press MENU, and then select **Preferences** to use the Preferences Menu to change user settings for:

- How the on-screen Program Guide displays (see *Customizing the Guide and Channel Lists* on page 23)

- Showing or hiding Closed Captions for programming (see *Closed Captioning* on page 24)

- Adjusting the duration of, or disabling, Inactivity Standby (see *Inactivity Standby* on page 25).

## Timers Menu

# TIMERS MENU

Press MENU, and then select **Timers** to use the Timers Menu to:

- View all existing timers for events.
- Create a new timer, or Edit or Delete an existing timer.

Timers can be either of two types:

- DVR – records an event automatically, even if the receiver is in standby (green front-panel light is out) at the time the event begins. Note that the receiver must be connected to a power source.
- Auto Tune – pops up a notice when an event is about to begin, and changes the channel to the new event unless you stop it.

Several options may be highlighted with the UP or DOWN ARROW keys, depending on whether a timer is intended for one single event, or should repeat periodically for a program.

You can select the timer to operate:

- **Once**
- **Daily**
- **Weekly**
- **Mon.–Fri.**

**Note:**   Events that are recorded by timers that you set to repeat will be displayed in the list using the name of the first event recorded by the timer.

# USING DOLBY® DIGITAL SURROUND SOUND

Press MENU and select **Setup**, then **Dolby Digital**, to access the Dolby Digital Menu. Dolby Digital gives you the capability to enjoy programs with surround sound. In order to enjoy full, 5.1-channel surround sound, you will require an external Dolby Digital decoder. Refer to the user's guide for your system's decoder device for more information.

DTVPal DVR uses a HDMI port to output digital audio and video, or an optical port to output digital audio only. The HDMI or optical connections can provide two audio data types: Dolby Digital and Linear PCM (only Dolby Digital audio through these connections can then be decoded to provide full, 5.1-channel surround sound).

## Using Dolby® Digital Surround Sound

Select one of the following, depending on your audio system:

- **Dolby**—select this option if the stereo system or audio amplifier can decode only Dolby Digital and will not process Linear PCM signals. See your stereo equipment's owner's manual for more details on the amplifier or decoder.

- **PCM Only**—select this option only if the stereo system or audio amplifier cannot decode Dolby Digital signals.

You can also choose from two different sound settings on this screen:

- **Standard**. When you use this setting, the dynamic range is wider, which makes music and loud noises louder, but voices quieter. This setting is good if you don't mind turning the volume up louder to hear the speaking portions of programs.

- **Night**. When you use this setting, the dynamic range is narrower, which makes music and loud noises quieter, but voices louder. This setting is good if you need to keep the volume lower.

## Notes

**Notes**

# Customizing Receiver

- SETTING UP KEY FEATURES

- RESETTING FACTORY DEFAULTS

- PROGRAMMING YOUR REMOTE CONTROL

- SOFTWARE UPGRADE OPTIONS

- TV GUIDE

## Setting Up Key Features

# SETTING UP KEY FEATURES

## Locks

Locks allow you to block channels or programs by requiring a password to be entered before they can be viewed.

Access the Locks menu by pressing MENU on the remote control, selecting **Setup**, then selecting **Locks**, then following the steps below. If you previously set a password, you'll need to enter the password to access the Locks menu. After you choose your Locks settings, you'll need to create a password and lock the system for the Locks to take effect.
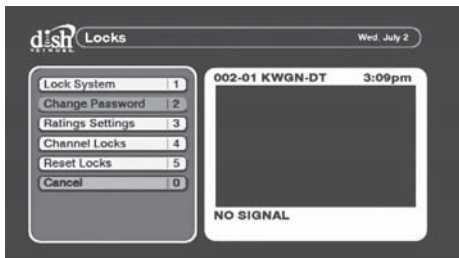


**Locks Menu**

### Locking specific channels

To require a password to be entered to view specific channels:

1. Select **Channel Locks** from the Locks menu.

2. Use the UP and DOWN ARROWS to find the channels you want to block. Press SELECT to include the channel in the list of locked channels. A channel is selected when it has a filled-in box next to it.



**Channel Settings**

3. If you want to hide the selected channels from being displayed in the Program Guide and other channel lists, select **Yes** under Hide Locked Channels. Select **Done** to save your changes.

4. Follow the steps in *Locking your DTVPal DVR* to apply the channel locks.

### Locking programs based on ratings

Your DTVPal DVR supports a variety of ratings categories. These ratings depend on information about the program included by the broadcaster.

# Customizing Receiver

## Setting Up Key Features

Broadcasters may use the Age and Content Guidelines, or the MPAA (Motion Picture Association of America) Guidelines.

- Entire Audience—Includes rating categories None, TV-G, TV-PG, TV-14, and TV-MA.

- Children—Includes rating categories TV-Y and TV-Y7.

- MPAA (Motion Picture Association of America)—Includes rating categories N/A, G, PG, PG-13, R, and NC-17.

- Extended—Includes rating categories Dialog, Language, Sex, Violence, and Fantasy Violence.

To block programs based on rating, use the following steps:

1. Select **Ratings Settings** from the Locks menu.

2. To easily select all categories for locking or unlocking, select **Block All** or **Unblock All**.

3. To edit a specific category, highlight the category.

**Ratings Settings**

4. For that Category, press SELECT on the highest Rating you want to be viewed without a password. Anything with a rating higher than that will require entering your password before viewing. For example, if you select TV-G, programs with None or TV-G can be viewed without a password.

5. Select **Done** to save your changes.

6. Follow the steps in *Locking your DTVPal DVR* to apply the ratings locks that you have selected.
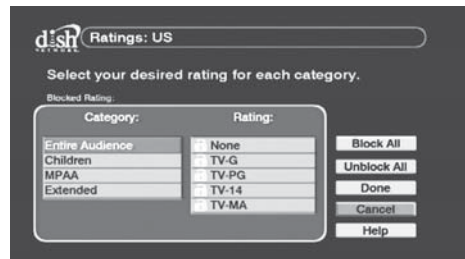
### Locking your DTVPal DVR

After you set the channel locks and the ratings locks, you must lock the DTVPal DVR for the settings to take effect. Locking the DTVPal DVR will also protect any protected recordings from being deleted, as well as prevent anyone from formatting the hard-disk drive.

To lock your receiver, select **Lock System** on the Locks menu.

- If you already have a password, enter it using the remote's NUMBER PAD.

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# Customizing Receiver

## Setting Up Key Features

- Enter a password using the NUMBER PAD on the remote control in the Password field.



- Enter the new password again when prompted. Your DTVPal DVR is now locked.

Note the following when using the Locks menu after locking your system:

- If you try to access a locked item or open the Locks menu, the DTVPal DVR displays a message asking you to enter the password. Enter the correct password to continue.

- The DTVPal DVR permits three attempts to enter the correct password. If you fail all three attempts at entering the correct password, then the DTVPal DVR does not allow you to try again for several minutes.

- If you exit a locked item or close the Locks menu, you must re-enter the password to access the item.

## Customizing the Guide and Channel Lists

### Changing the Order of the Channels

Press MENU, select **Preferences**, and then **Guide Display**. Under **Direction**, You can set up the on-screen Program Guide to list channels in descending order, with the highest channel number at the bottom of the screen, or in ascending order, with the highest channel number at the top of the screen. The default setting is to list channels in descending order.

### Changing the Type of Guide Display

The DTVPal DVR comes set to display the standard-size Program Guide with descriptions for the highlighted program or event. However, you can choose the style of Guide Display that you like in the EPG Preferences menu.

- **Medium Text -** This is the default option.
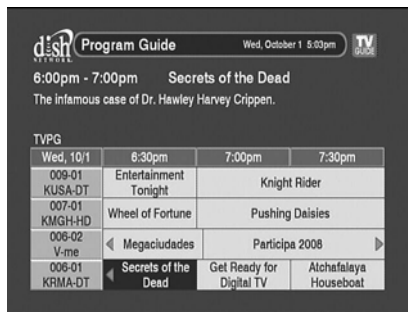


- **Large Text -** Choose this option if you'd like to see larger text and fewer hours of schedule per page on the Program Guide.
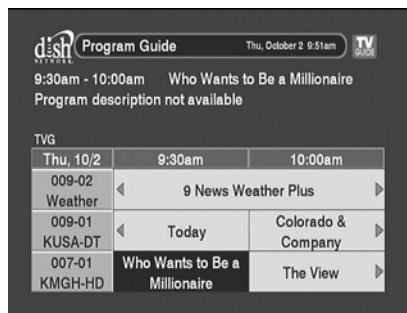
## Setting Up Key Features

- **Small Text -** Choose this option if you'd like to see more channels and three hours of schedule in smaller text per page on the Program Guide.



## Changing Display Formats

When viewing live TV or playing back a recording, you can press PAGE UP (to format the SD video outputs) or PAGE DOWN (for the HD outputs) or the FORMAT/* button (for both SD and HD outputs) to cycle through the options for screen display format: Auto (the default, based on data about the displayed content), Normal (as on **Installation** screens under **System Setup**), Stretch, Partial Zoom, and Zoom.

## Changing Languages

You may be able to change the audio language of some programs. Press MENU, select **Setup**, **Audio Setup**, then select to use your primary or alternative language. Also, when viewing live TV or playing back a recording, you can press the SAP button to hear the Secondary Audio Program for programming with SAP. Press SAP again to turn the feature off.

## Closed Captioning

Your DTVPal DVR has many options for Closed Captioning (CC), including font size, colors, edge style, service and opacity. To enable Closed Captioning for when viewing programming with captions, press CC, or you can press MENU, select **Preferences**, and select **Closed Captions**, then **Captions On**. Select either off or on, and then **Done**. When viewing live TV or playing back a recording with closed captions turned on, you can press CC again to turn the feature off.

## Inactivity Standby

You can set up a period of time after which, if there has been no activity (such as changing channels or using the DVR buttons), the DTVPal DVR will go into standby mode (the green front-panel light will go out). This does not affect any event timers you have set, since the DTVPal DVR saves recordings when in standby. To disable this feature or change its duration, press MENU, select **Preferences**, **Inactivity Standby**, make your settings and then select **Done**.

# RESETTING FACTORY DEFAULTS

Press MENU, select **Setup**, **System Setup**, and then **Restore Factory Defaults**. A warning message will display on the screen. Select **Yes** to reset preferences and user settings for the DTVPal DVR.  This will not affect  any recordings you have saved, whether they are protected or not.

# DIAGNOSTICS MENU

Press MENU, select **Setup**, **System Setup**, and then **Diagnostics**. You can use options on this menu to help diagnose and troubleshoot issues you may be having with your DTVPal DVR. The options include:

- **Video Mem** - Tests the VRAM in your DTVPal DVR for corruption.
- **HDMI** - Tests the HDMI connection to your TV, if one is present.
- **HDD** - Tests for problems with the hard-disk drive in the DTVPal DVR.
- **USB Test** - Tests the connection to a USB device, if one is present.
- **Ethernet** - Tests the DTVPal DVR's network connection, if you use one.
- **Counters** - Allows you to view and reset a number of system counters.

# PROGRAMMING YOUR REMOTE CONTROL

The remote control gives you access to all the features of your DTVPal DVR. You can set up the remote to control as many as three additional devices. These devices can be your TV, VCR or DVD player, and a third device (such as a VCR or DVD player, audio receiver, tuner or amplifier, or another TV or DISH Network satellite receiver). To use your DTVPal DVR remote control to operate these other devices, you must program your remote control for these other devices. You can enter codes directly to control your devices, or you can scan the remote control's database of device codes to find the right one.

# Customizing Receiver

## Programming Your Remote Control

### Setting Up Devices by Entering Codes

You can set up the remote to control other devices using the device codes listed on page 27.

1. Turn the device on.

2. Find the brand name in the tables.

3. Press and hold the mode button for the device until all the mode buttons light up.

4. For AUX mode, press 0 for a TV, 1 for a VCR, or 2 for an audio tuner/amplifier.

5. Using the NUMBER PAD, enter one of the three-digit device codes for your brand from the table. Then press POUND (#).

6. Wait for three flashes of the mode light. If it doesn't, go back to step 3.

7. Press POWER to turn off the device. If the device does not turn off, go to step 8.

8. Turn the device back on and try some other buttons to make sure they work. If the code works for other buttons, stop here.

9. If the code doesn't work, repeat steps 3 through 7 with the next device code from the tables.

10. If you can't find a code that works, then try *Setting Up Using Device Codes Scan.*

### Setting Up Using Device Codes Scan

1. Turn the device on.

2. Press and hold the Mode button for the device until all the Mode buttons light up.

3. Press POWER.

4. Press the UP (or DOWN ARROW, but not both) until the device turns off. Then press POUND (#).

5. Wait for three flashes of the mode light. If it doesn't flash three times, then go back to step 3.

6. Turn the device back on and test to make sure it works with other remote-control buttons, like VOLUME.

## Programming Your Remote Control

### Remote Control Device Codes

These tables contain the manufacturer codes for programming the remote to control your TV, a VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your equipment brand is not listed or if the codes do not work, the remote may not control your equipment. In some cases codes may operate some but not all buttons shown in this guide.

*TV CODES*

**Programming in AUX mode**: In most cases, use these codes to program in TV mode; however, if programming in AUX mode, press 0 before entering the TV code.

**Abex** 230
**Action** 662
**Admiral** 521 605 675
**Aiko** 727
**Akai** 570 573
**Alleron** 682
**A-Mark** 620
**Amtron** 657
**Anam National** 509 541 620 651 657 698
**AOC** 505 506 519 520 573 620 627 652 653 654
**Apex** 743 744 745 757 814 815
**Archer** 620
**Audiovox** 620 657 662
**Baycraft** 536
**Belcor** 652
**Bell & Howell** 590 675 683
**Bradford** 657
**Brockwood** 627 652
**Broksonic** 562 748 752
**Candle** 506 523 525 536 627 652 654
**Candle/Citizen** 573
**Capehart** 519 627
**Circuit City** 627
**Citizen** 506 516 523 524 525 526 590 652 654 657 658 680 727
**Colortyme** 573 627 652 654
**Concerto** 523 652 654
**Contec Cony** 662
**Contec/Cony** 541 655 657 726
**Craig** 536 541 657 662 694
**Crown** 526 536 657
**Curtis Mathes** 506 516 526 573 590 641 645 650 652 654 658 680 683 703 708
**CXC** 541 657 662
**Cytron** 903 904
**Daewoo** 505 524 526 529 530 531 573 630 652 653 654 658 684 698 719 727 816
**Daytron** 526 627 652 654 658
**Dell** 772 773 774
**Dimensia** 645 650
**Dixi** 566 620

**Dumont** 501 627 652
**EchoStar** 722
**Electrohome** 526 573 651 652 654 656 709 728
**Emerson** 526 534 536 541 573 590 627 636 642 648 652 654 655 657 658 662 682 683 692 696 699 720 816
**Envision** 506 573 652 654
**Fisher** 542 590 683
**Fortress** 573
**Fujitsu** 534 682 694
**Funai** 534 541 657 662 682 694
**Futuretech** 541 657 694
**GE** 508 509 543 544 630 645 646 650 651 652 654 676 690 691 698 701 715 716 725 728 742 779 809 859
**General Electric** 627
**Gibralter** 501 652
**Goldstar** 505 523 526 545 546 566 573 652 653 654 655 656 658 693 730
**Granada** 627
**Grand** 627
**Grunpy** 657 682
**Hallmark** 627 652 654
**Harmon/Kardon** 561
**Harvard** 657
**Hinari** 534
**Hisense** 759
**Hitachi** 523 526 548 549 553 554 555 585 597 626 636 638 643 648 652 654 655 702 718 726 786 788 789 790 791 792 801 802
**IMA** 657
**Infinity** 566
**JBL** 566
**JC Penney** 505 506 516 525 526 543 546 631 645 646 650 652 653 654 658 676 680 690 691 701 725 726 728 730
**Jensen** 556 573 652 654
**JVC** 508 557 559 642 649 655 676 726 735 736 737 812 817
**Kawasho** 548 561 573 652 654
**Kenwood** 506 573 652 654 656
**Kloss** 561 610
**Kloss Novabeam** 657 698 723 724
**KTV** 526 541 573 657 658 662 696
**LG** 653 766
**Lloyds** 627
**Lloytron** 526
**Loewe** 566
**Logik** 675
**Luxman** 523 652 654
**LXI** 563 566 590 595 617 631 635 645 646 650 654 683 691 701 725
**M. Wards** 500 505 506 534 543 567 568
**Magnasonic** 573

## Programming Your Remote Control

**Magnavox** 506 520 525 536 566 567 568 573 610 652 654 656 723 724 729 762 818 887 888
**Majestic** 675
**Marantz** 506 566 573 652 654
**Megatron** 627 654
**Memorex** 590 627 653 654 675 683 720
**MGA** 504 505 506 542 571 573 627 652 653 654 656 728
**Midland** 501 646 658 676 725 730
**Mitsubishi** 504 505 542 570 571 572 573 597 623 627 652 653 654 656 705 728 787 799 804
**Mitsui** 769
**Montgomery Ward** 675
**Motorola** 521 605 651
**MTC** 505 506 516 523 573 627 652 653 654 680
**Multitech** 657
**NAD** 502 617 627 631 635 637 654
**National** 509
**NEC** 505 506 507 517 523 573 627 651 652 653 654 731 732
**Nikkai** 612
**Nikko** 654 727
**Normandic** 717
**Novabeam** 561
**NTC** 727
**Nyon** 701
**Olevia** 766 773
**Onwa** 541 657
**Optimus** 637
**Optonica** 521 605 607
**Orion** 694
**Osaki** 612
**Panasonic** 508 509 512 566 644 651 662 676 685 689 698 700 716 734 761 765 780 784 811 819 820 821 822 823 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 889 890 900
**Philco** 505 506 525 536 568 573 610 651 652 653 654 655 656 723 724 729
**Philips** 525 566 651 652 655 656 690 723 724 729 770 782 824 825 826 827 828 891 892 893 894
**Philips Magnavox** 782 826 827 828 829
**Pilot** 652 658
**Pioneer** 502 548 576 636 637 648 652 654 708
**Portland** 505 526 573 652 653 654 658 727
**Price Club** 680
**Prism** 676
**Proscan** 645 646 650 691 725 742 857
**Proton** 513 519 526 536 585 627 652 654 655
**Pro View** 902
**Pulsar** 501 652
**Quasar** 508 509 651 676 698 700 860 861 862 895 896
**Radio Shack** 526 541 590 607 612 645 662 683 698
**Radio Shack/Realistic** 590 607 650 652 654 655 657 658 683 730
**RCA** 503 505 548 630 633 634 636 641 645 646 648 650 651 652 653 654 656 691 698 701 708 715 716 725 742 749 763 776 805 830 831 832 863 864
**Realistic** 590 645 683
**Runco** 501
**Sampo** 506 519 652 654 658 698 730 746
**Samsung** 505 506 516 523 526 566 573 612 627 647 652 653 654 655 656 658 680 704 717 730 738 755 833 858 897
**Samwon** 620

**Sansui** 754 834
**Sanyo** 542 590 652 683
**SBR** 566
**Schneider** 566
**Scotch** 654
**Scott** 526 534 541 600 652 654 655 657 662 682 696 701
**Sears** 523 534 542 563 590 595 601 604 617 627 631 635 645 646 650 652 654 656 682 683 688 691 703 725 726
**Seimitsu** 627
**Sharp** 521 526 585 605 607 628 629 652 654 655 658 739 740 741 777 794 803 835 836 898
**Shogun** 652
**Signature** 675
**Silver** 573
**Simpson** 525
**Solavox** 612
**Sony** 500 640 690 758 781 783 795 796 797 798 806 807 808 810 837 838 839 840 841 842 843 844 845
**Soundesign** 525 536 541 627 652 654 657 682
**Spectricon** 520 620
**Squareview** 694
**SSS** 505 541 573 652 657
**Starlite** 657
**Supra** 523
**SVA** 901 905
**Sylvania** 506 525 536 566 568 569 573 600 610 652 654 656 723 724 729 733 756 764
**Symphonic** 632 657 662 692 694 846
**Tandy** 521 605
**Tatung** 509 651 698
**Technics** 508 676
**Techwood** 523 573 652 654 676
**Teknika** 504 505 512 516 523 524 525 526 534 536 541 573 644 652 653 654 655 657 658 662 675 680 682 685 726 727
**Tera** 513
**Thomas** 627
**Thompson** 709
**TMK** 523 573 627 652 654
**Toshiba** 516 590 617 631 635 680 683 688 750 771 785 793 847 848 849 850 851 852 853 854 855 856 865 866
**Totevision** 526 658
**Toyomenko** 627
**Universal** 543 690
**Vector Research** 506
**Victor** 557
**Video Concepts** 570
**Vidtech** 505 573 627 652 653 654
**Viewsonic** 760
**Wards** 536 573 607 645 650 652 653 654 656 675 682 690 715 723 724 729
**White Westinghouse** 816
**Yamaha** 505 506 573 652 653 654 656
**York** 627
**Zenith** 501 520 639 652 675 693 775 778 813 899
**Zonda** 620

### VCR CODES

**Programming in AUX mode**: In most cases, use these codes to program in VCR mode; if

## Programming Your Remote Control

programming in AUX mode, press 1 before entering the VCR code.

**Adventura** 588
**Aiwa** 588 622 623
**Akai** 513 515 516 517 518 568 682
**American High** 678
**Amstrad** 588
**ASA** 556
**Asha** 675
**Audio Dynamics** 592 600
**Audiovox** 676
**Beaumark** 675
**Bell & Howell** 581
**Broksonic** 559
**Calix** 676
**Candle** 534 594 675 676
**Canon** 554 678 679
**Citizen** 534 591 592 594 675 676
**Colortyme** 592
**Craig** 591 675 676
**Curtis Mathes** 554 592 594 605 607 675 678 679
**Cybernex** 675
**Daewoo** 534 547 559 588
**DBX** 592 600
**Dimensia** 607
**Dumont** 549
**Dynatech** 588
**Electrohome** 512 676
**Electrophonic** 676
**Emerson** 505 508 509 511 512 518 534 559 568 588 590 618 676 678
**Finlandia** 549
**Finlux** 549 556 588
**Fisher** 549 581 584 588 610
**Fuji** 678
**Funai** 588
**Garrard** 588
**GE** 551 552 554 572 591 605 607 675 678 679
**Go Video** 557 558 620
**Goldstar** 592 594 676
**Goodmans** 585
**Gradiente** 588
**Granada** 549 581
**Grundig** 556
**Harley Davidson** 588
**Harman Kardon** 592
**Harmon/Kardon** 568 592
**Headquarter** 581
**Hitachi** 536 538 539 540 588 595 597 682
**Instant Replay** 678
**ITT** 518
**JC Penney** 554 581 591 592 594 595 600 675 676 678 679
**JCL** 678
**Jensen** 595 682
**JVC** 561 562 563 581 592 594 600 682
**Kenwood** 562 581 592 594 600 682
**Kodak** 676 678
**LG** 676
**Luxor** 518
**Lloyd's** 588
**LXI** 676
**M. Wards** 512 554 585 590 591
**Magnavox** 527 533 554 556 678 679 797 798

**Magnin** 676
**Marantz** 554 556 581 585 592 594 600 678
**Marta** 676
**Matsushita** 678
**MEI** 554 678
**Memorex** 533 549 554 566 581 585 588 675 676 678
**MGA** 512 567 568
**MGN Technology** 675
**Midland** 579
**Minolta** 595
**Mitsubishi** 512 562 567 568 570 571 595
**Motorola** 678
**MTC** 544 588 675
**Multitech** 579 588 675
**Mutitech** 591
**NEC** 562 581 592 594 600 682
**Nikko** 676
**Noblex** 675
**Olympus** 678
**Optimus** 676
**Optonica** 585
**Panasonic** 523 554 598 614 628 633 678 679 777 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 799 808 809 810
**Pentax** 592 595
**Pentex Research** 594
**Perdio** 588
**Philco** 554 678 679
**Philips** 554 556 585 678 801 802 803 804
**Pilot** 676
**Pioneer** 562 574 575 576 600
**Proscan** 605 607
**Pulsar** 533
**Quarter** 581
**Quartz** 581
**Quasar** 554 678 679 770 771 772 805 806
**Radio Shack** 512 607 610 676
**Radio Shack/Realistic** 581 584 588 675 676 678 679
**Radix** 676
**Randex** 676
**RCA** 518 525 527 528 591 595 605 607 615 631 649 675 678 773 774 775
**Realistic** 534 549 554 581 584 585 588 675 676 678 679
**Ricoh** 502
**Runco** 533
**Salora** 567 581
**Samsung** 515 517 534 579 591 675 755 807
**Sanky** 533
**Sansui** 544 562 600 682
**Sanyo** 549 581 583 675
**SBR** 556
**Scott** 508 534 559 590
**Sears** 549 581 584 595 610 676 678
**Sharp** 512 585 595 607 625
**Shintom** 595
**Shogun** 675
**Singer** 678
**Sony** 500 501 502 504 768 778
**STS** 678
**Sylvania** 554 556 567 588 678 679 756
**Symphonic** 588 594
**Tandy** 581 588
**Tashiko** 676

## Programming Your Remote Control

**Tatung** 594 682
**Teac** 588 594 682
**Technics** 554 633 678
**Teknika** 554 588 676 678
**TMK** 675
**Toshiba** 534 535 567 584 590 769 776
**Totevision** 591 675 676
**Unitech** 675
**Vector Research** 534 592 600
**Victor** 561 562 600
**Video Concepts** 534 568 592 600
**Videosonic** 591 675
**Wards** 534 588 595 675 676 678
**XR-1000** 588 678
**Yamaha** 581 592 594 600 682
**Zenith** 500 501 533 779

**Samsung** 652 667 668 691 740 741 820 821 844 845 866 875 881 705
**Sansui** 725 754
**Sanyo** 643
**Sharp** 669 727 865
**Sony** 617 645 670 671 729 730 731 768 817 818 830 831 832 836 837 838 843 847 848 849 851 852 853 857 858 864 883 884
**Sylvania** 658 764 829
**Teac** 732
**Technics** 733
**Techwood** 664
**Toshiba** 616 646 672 735 736 814 815 819 825 826 827 828 834 846
**Yamaha** 737 739
**Zenith** 673 824

### DVD PLAYER CODES

**Programming in AUX mode**: In most cases, use these codes to program in VCR mode; if programming in AUX mode, enter 1 and then the DVD Player code.

**Aiwa** 634 694
**Alpine** 653
**Apex** 654 655 744 757 835 839
**Archos** 885
**BOSE** 758 811
**Broksonic** 656 752
**Clarion** 696
**Classic** 695
**CyberHome** 833
**Cytron** 904
**Daewoo** 657 859
**Denon** 697 699 700
**EchoStar** 722
**Emerson** 658
**Fisher** 659
**Funai** 658
**GE** 702 703
**Go Video** 692 693 822
**GPX** 704
**Hitachi** 660 705 706 707 740 823 860 668
**JVC** 689 711 850 861 862 863
**Konka** 637 638 753
**Koss** 745
**Magnavox** 661
**Memorex** 709
**Mintek** 710
**Mitsubishi** 767 867
**Norcent** 711
**Oritron** 723
**Panasonic** 639 663 699 714 715 716 734 765 813 840 841 855 856 868 869 870 871 872 873 882
**Philips** 766 874
**Pioneer** 665 719 812 876 877 878 879 880
**Proscan** 720
**Qwestar** 723
**RCA** 666 690 749 816 842 854
**Sampo** 724

### TUNER/AMPLIFIER CODES

**Programming in AUX mode**: Press 2 before entering the tuner/amplifier code.

**Aiwa** 636 641 656 687 718 720 724 725 726
**BOSE** 761 780
**Carver** 653
**Citizen** 709
**Denon** 647 674 759 760 762 807 809 814 835
**Fisher** 653
**GE** 711
**Goldstar** 677 690
**Harman Kardon** 640 751
**Harmon/Kardon** 672
**Hitachi** 717
**JBL** 640
**JVC** 637 683 703 725 786 827
**Kenwood** 676 691 726 728 774 795 828 829 830 831 832 840 842
**Magnavox** 654 705
**Marantz** 651 764
**Nakamichi** 671
**NEC** 716
**Onkyo** 642 660 662 678 785 788 790 791 792 796 801
**Optimus** 648 664
**Panasonic** 643 644 652 783 797 798 799 808 810 815 816 817 818 819 820 821 822 824 825 826 833 836 837 838 839
**Pioneer** 658 667 668 679 702 767 770 772 779 802 806 844
**Proton** 654 705
**Quasar** 652
**RCA** 635 638 704 727
**Sharp** 712 713 714 715
**Sherwood** 646 670
**Sony** 639 645 687 728 729 730 765 766 769 771 773 775 776 777 778 781 782 784 787 789 793 794 803 811 812 813
**Soundmatters** 763
**Teac** 684
**Technic** 652
**Technics** 643 644 652 768 804 805 843
**Toshiba** 710
**Victor** 703
**Yamaha** 663 730 731 732 733 823 834 841

## Programming Your Remote Control

### *TV/VCR COMBO CODES*

**Programming for combination equipment**: Program the remote control in TV mode using the TV code and then in VCR mode using the VCR code.

|  | TV Code | VCR Code |
|---|---|---|
| Magnavox | 887 | 797 |
|  | 888 | 798 |
| Philips | 891 | 801 |
|  | 892 | 802 |
|  | 893 | 803 |
|  | 894 | 804 |
| Quasar | 860 | 770 |
|  | 861 | 771 |
|  | 862 | 772 |
|  | 895 | 805 |
|  | 896 | 806 |
| RCA | 863 | 773 |
|  | 864 | 774 |
| Samsung | 755 | 755 |
|  | 897 | 807 |
| Sylvania | 756 | 756 |

### *TV/DVD COMBO CODES*

**Programming for combination equipment**: Program the remote control in TV mode using the TV code and then in VCR mode (or AUX – press 1 before entering the DVD code) using the DVD code.

|  | TV Code | DVD Code |
|---|---|---|
| Apex | 757 | 757 |
| Broksonic | 752 | 752 |
| Cytron | 904 | 904 |
| Panasonic | 734 | 734 |
|  | 765 | 765 |
| RCA | 749 | 749 |
| Sansui | 754 | 754 |
| Sylvania | 764 | 764 |
| Toshiba | 865 | 814 |
|  | 866 | 815 |

### *TV/DVD/VCR COMBO CODES*

**Programming for combination equipment**: Program the remote control in TV mode using the TV code, then in VCR mode using the VCR code, and then DVD in AUX mode (press 1 before entering the DVD code) using the DVD code.

|  | TV | DVD | VCR |
|---|---|---|---|
| Panasonic | 900 | 882 | 810 |

### *TV/VCR/TUNER COMBO CODES*

**Programming for combination equipment**: Program the remote control in TV mode using the TV code, then in VCR mode using the VCR code, and then tuner in AUX mode (press 2 before entering the tuner code) using the tuner code.

|  | TV | VCR | Tuner |
|---|---|---|---|
| Panasonic | 867 | 796 | 797 |
|  | 868 | 799 | 798 |
|  | 869 | 808 | 799 |
|  | 870 | 780 | 839 |
|  | 871 | 781 | 838 |
|  | 872 | 782 | 837 |
|  | 873 | 783 | 836 |
|  | 874 | 784 | 833 |
|  | 875 | 785 | 826 |
|  | 876 | 786 | 825 |
|  | 877 | 787 | 824 |
|  | 878 | 788 | 822 |
|  | 879 | 789 | 821 |
|  | 880 | 790 | 820 |
|  | 881 | 791 | 819 |
|  | 882 | 792 | 818 |
|  | 883 | 793 | 817 |
|  | 884 | 794 | 816 |
|  | 885 | 795 | 815 |
|  | 889 | 809 | 808 |

# SOFTWARE UPGRADE OPTIONS

Software upgrades may be made available to users of the DTVPal DVR, either to add new features or fix issues with existing ones. It is possible to upgrade the software in your DTVPal DVR using the USB 2.0 or Ethernet connections on the rear panel. A software upgrade does not affect existing recordings and cannot be performed when recording is active.

Follow the on-screen instructions and never turn your DTVPal DVR off while a software download or update is taking place. This process can take as long as 5 minutes to complete, after which the DTVPal DVR will restart and refresh its Program Guide information.

## Upgrading via USB

Go to www.dtvpal.com to get the latest version of DTVPal DVR software and for more details on how to use this feature.

## Upgrading via Ethernet

Simply connect your DTVPal DVR to your broadband home network using an Ethernet connection and once your DTVPal DVR is in standby (the green front-panel light is out), it will automatically download the latest compatible software within an hour. An immediate download can be forced by pressing MENU, selecting **Setup**, **Broadband**, and then **Software Update**. For more information and detailed upgrade instructions, please go to www.dtvpal.com

# TV GUIDE

## TV Guide On Screen or Guide Plus Setup

You only need to perform the following steps if you have a TV, DVD recorder, or VCR that includes TV Guide On Screen or Guide Plus. If you do not have a TV Guide On Screen or Guide Plus device, you will be able to use the built-in Program Guide in your DTVPal DVR.

If you are currently using TV Guide On Screen or Guide Plus in your analog TV, DVD recorder, or VCR for over-the-air TV reception (not cable or satellite service), you will need to change your TV Guide On Screen/Guide Plus setup option to continue receiving your TV Guide On Screen/Guide Plus listings.

The steps provided walk you through the changes you need to make to continue receiving show listings when your DTVPal DVR is connected to your Guide-enabled product.

For more detailed instructions or updated support information, refer to www.tvgos.com/support.

### Getting Started

To set up the TV Guide On Screen to communicate with your DTVPal DVR, you'll need:

- **G-LINK Cable**—this cable is required to continue receiving TV Guide On Screen/Guide Plus listings in your Guide-enabled product. The G-LINK cable was shipped with your original TV Guide On Screen/ Guide Plus-enabled TV, DVD recorder, or VCR. If you no longer have the G-LINK cable, visit www.tvgos.com/support.

- **Substitute ZIP Code**—you will need the five-digit code associated with your broadcast area. During setup, you will enter the Substitute ZIP Code in place of your actual ZIP code. These codes are provided on page 38 of this User's Guide.

### Setting Up Your DTVPal DVR

1. Connect your DTVPal DVR using the instructions on page 2. You should have connected the **TV SET OUT** or **AUDIO/VIDEO** output to the corresponding input on your Guide-enabled TV, DVD recorder, or VCR.
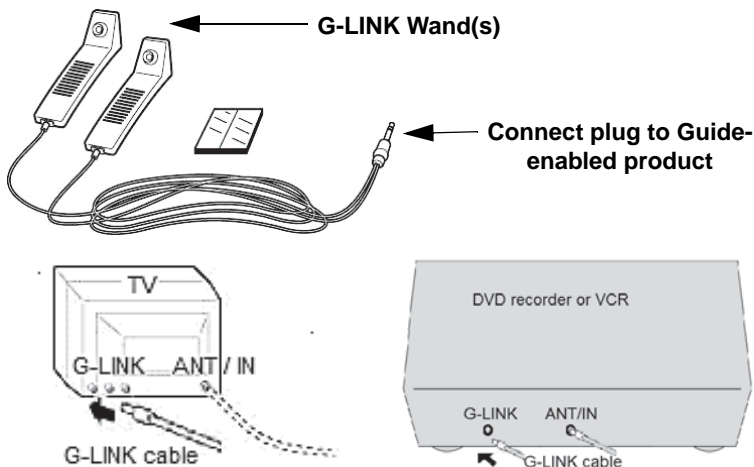
# Customizing Receiver

## TV Guide

2. Using your DTVPal DVR remote control, press MENU, select **Setup**,
then **System Setup**, then **TV Guide & Guide +**.



**TV Guide Setup**

### Connecting the G-LINK Cable

1. Connect the G-LINK cable to the G-LINK jack on the back of your TV Guide-enabled TV, DVR recorder, or VCR.



**G-LINK Wand(s)**

**Connect plug to Guide-enabled product**

2. Place the G-LINK wand approximately one inch in front of the remote control sensor on your DTVPal DVR. Use tape to secure the G-LINK wand to the DTVPal DVR front panel.
**Note**: The remote control sensor is located in the middle of the front panel of your DTVPal DVR.

### Updating TV Guide On Screen and Guide Plus Setup

After connecting your DTVPal DVR to your TV Guide On Screen or Guide Plus-enabled device, use these steps to complete the setup.
**Note**: The menu options on your Guide-enabled device may differ from the ones described here.

1. Using the remote control for your Guide-enabled TV, DVD recorder, or VCR, press GUIDE to open your Guide Listings screen.

2. On the Service Bar, select **Setup**, then **Change System Settings**.

3. If available, select **No, repeat setup**. Otherwise, follow the on-screen prompts.

### Entering Your Location

The Guide uses setup information to provide TV show listings and channel lineups for your area.

1. Select **USA** as the country.

2. Use the remote control NUMBER PAD or the UP and DOWN ARROWS to enter the Substitute ZIP Code for your area. See page 38 for the ZIP code listing.

### Set Up Your DTVPal DVR

For your Guide to communicate with your DTVPal DVR, the Guide must be set up as though the DTVPal DVR is a cable box, even though you do not have cable service. Use these steps to finish setting up your DTVPal DVR.

1. Select **Cable with a Cable Box** or **Yes I have cable**.

2. If asked, select the type of audio/video input you used to connect your DTVPal DVR to your Guide-enabled device, then follow the on-screen prompts.

3. If a connection diagram displays, verify the G-LINK cable is connected as shown.

4. For brand of cable box, select **Scientific Atlanta**.

5. Follow the on-screen instructions and verify that your DTVPal DVR changed channels.

6. When asked if the device has tuned to Channel 9, select **Yes**.

7. On the confirmation screen, select **Yes, continue/finish setup process**. If you are asked about setting up a VCR, select the appropriate answer for your installation.

# Customizing Receiver

## TV Guide

### Completing Setup

- After setup is complete, exit the Guide setup screen. To begin receiving listings, be sure to turn off the Guide-enabled device when not in use.

- Within 24 hours, you will begin receiving TV show listings. It may take up to six days to receive the full eight days of initial show listings.

- Show listings are updated several times per day. Be sure to leave your DTVPal DVR powered on to have the most updated listings information. It is normal for your DTVPal DVR to change channels while the Guide-enabled device is powered off and is setting up or receiving new data. **Note**: When you receive your new Guide listings, you will notice that your channel numbers have changed. Refer to *Tuning to Your New Channel Numbers*, below, or visit www.tvgos.com/support for more details.

### Tuning to Your New Channel Numbers

After connecting your Guide-enabled TV or DVD recorder to your DTVPal DVR or VCR, the channel numbers used in your Guide Listings will change.

### Understanding Your New Channel Numbers

Your analog TV, DVD recorder, or VCR does not know how to tune to digital channels. The channel number assigned to your channel lineup allows your DTVPal DVR to find the correct digital channels.

### Finding Channel Numbers

In any Guide version, you can identify the channel number using the Channel Editor.

1. On the Service Bar, highlight **Listings**. Press MENU on the Guide-enabled device's remote control, then select **Edit Channel**.

2. The Channel Editor displays. Note the Guide channel number for each channel.

**Channel Number**

| 1 | ON | PBS | WGBH | Cable Box | | 2 |
|---|----|-----|------|-----------|---|---|

| 1 | PBS | WGBH | Cable Box | 2 | ON |
|---|-----|------|-----------|---|----|
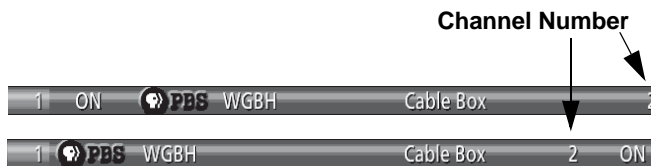
**Note**: You need this channel number to go to a specific channel in the Listings screen or if you are scheduling a manual reminder or recording. Visit www.tvgos.com/support for more information.

### Displaying Channel Numbers in Listings

Your Guide version may or may not have the ability to display channel numbers in the Listings grid.

**Channel Logo and Number**

| TODAY | 8:00PM | 8:30PM | 9:00PM |
|---|---|---|---|
| ●) PBS  2 | Medici: Godfathers of the Renaissance | | Frontline/World ▸ |
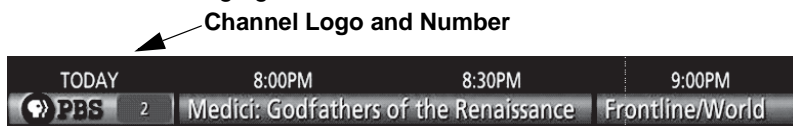
To determine if you can display the new channel numbers:

1. Highlight Listings (or any channel's logo), then press MENU on the Guide-enabled device's remote control.

2. The Listings Options (or Channel Options) menu appears. If there is a Channel ID field, you can press the LEFT or RIGHT ARROW to select a channel display option:

   - **Both**—displays both the channel logo and number.

   - **Logo**—displays only the channel logo.

   - **Number**—displays only the channel number.

**Listings Options** ❶
- go to Service Bar
- video ◀ locked ▶
- channel ID ◀ both ▶
- edit channels
- done
- cancel

## TV Guide

### Substitute ZIP Codes

Locate the major broadcast area closest to your location. Note the substitute ZIP code associated with this area and enter it as your ZIP code during the TV Guide On Screen/Guide Plus Setup.

| State | Broadcast Area | ZIP Code |
|-------|----------------|----------|
| AK | Anchorage | 00218 |
| AK | Fairbanks | 00224 |
| AK | Juneau | 00223 |
| AK | Sitka | 00211 |
| AL | Anniston | 00195 |
| AL | Birmingham | 00050 |
| AL | Dothan | 00165 |
| AL | Dothan | 00207 |
| AL | Huntsville-Decatur-Florence | 00081 |
| AL | Mobile-Pensacola-Ft Walt | 00058 |
| AL | Montgomery-Selma | 00111 |
| AL | Phenix City | 00219 |
| AL | Tuscaloosa | 00186 |
| AR | Ft. Smith-Fayetteville-Springdale-Rogers | 00117 |
| AR | Jonesboro | 00177 |
| AR | Little Rock-Pine Bluff | 00056 |
| AZ | Phoenix | 00021 |
| AZ | Tucson-Sierra Vista | 00079 |
| AZ | Yuma-El Centro | 00178 |
| CA | Bakersfield | 00130 |
| CA | Chico-Redding | 00125 |
| CA | El Centro | 00192 |
| CA | Eureka | 00187 |
| CA | Fresno-Visalia | 00057 |
| CA | Los Angeles | 00002 |
| CA | Palm Springs | 00162 |
| CA | Sacramento-Stockton-Modesto | 00019 |
| CA | Salinas-Monterey | 00103 |
| CA | San Diego | 00024 |
| CA | San Francisco-Oakland-San Jose | 00005 |
| CA | Santa Barbara-Santa Maria-San Luis Obispo | 00112 |
| CO | Colorado Springs-Pueblo | 00097 |
| CO | Denver | 00020 |
| CO | Grand Junction-Montrose | 00188 |
| CT | Hartford-New Haven | 00025 |

| State | Broadcast Area | ZIP Code |
|-------|----------------|----------|
| DC | Washington | 00007 |
| FL | Ft. Myers-Naples | 00087 |
| FL | Gainesville | 00166 |
| FL | Jacksonville | 00054 |
| FL | Miami-Fort Lauderdale | 00015 |
| FL | Orlando-Daytona Beach-Melbourne | 00023 |
| FL | Panama City | 00164 |
| FL | Tallahassee-Thomasville | 00115 |
| FL | Tampa-St. Petersburg-Sarasota | 00016 |
| FL | West Palm Beach-Ft. Pierce | 00046 |
| GA | Albany | 00154 |
| GA | Atlanta | 00011 |
| GA | Augusta | 00110 |
| GA | Columbus | 00122 |
| GA | Macon | 00119 |
| GA | Savannah | 00101 |
| HI | Honolulu | 00210 |
| IA | Cedar Rapids-Waterloo-Iowa City-Dubuque | 00082 |
| IA | Des Moines-Ames | 00068 |
| IA | Ottumwa-Kirksville | 00200 |
| IA | Sioux City | 00140 |
| ID | Boise | 00132 |
| ID | Idaho Falls-Pocatello | 00158 |
| ID | Twin Falls | 00201 |
| IL | Champaign-Springfield-Decatur | 00075 |
| IL | Chicago | 00003 |
| IL | Davenport-Rock Island-Moline | 00084 |
| IL | Marshall-Robinson | 00217 |
| IL | Peoria-Bloomington | 00107 |
| IL | Quincy-Hannibal-Keokuk | 00159 |
| IL | Rockford | 00134 |
| IN | Evansville (no DST) | 00215 |
| IN | Evansville (with DST) | 00094 |
| IN | Ft. Wayne | 00102 |
| IN | Indianapolis | 00026 |
| IN | Scottsburg-Madison | 00213 |

| State | Broadcast Area | ZIP Code | State | Broadcast Area | ZIP Code |
|---|---|---|---|---|---|
| IN | South Bend-Elkhart | 00083 | MS | Hattiesburg-Laurel | 00167 |
| IN | Terre Haute | 00138 | MS | Jackson | 00088 |
| KS | Topeka | 00139 | MS | Meridian | 00183 |
| KS | Wichita-Hutchinson | 00062 | MT | Billings | 00171 |
| KY | Bowling Green | 00181 | MT | Butte-Bozeman | 00189 |
| KY | Lexington | 00070 | MT | Glendive | 00221 |
| KY | Louisville | 00047 | MT | Great Falls | 00182 |
| LA | Alexandria | 00169 | MT | Missoula | 00176 |
| LA | Baton Rouge | 00095 | NC | Charlotte | 00030 |
| LA | Lafayette | 00120 | NC | Greensboro-High Point-Winston Salem | 00049 |
| LA | Lake Charles | 00174 | NC | Greenville-New Bern-Washington | 00104 |
| LA | Monroe-El Dorado | 00131 | NC | Raleigh-Durham-Fayetteville | 00032 |
| LA | New Orleans | 00039 | NC | Wilmington | 00143 |
| LA | Shreveport | 00071 | ND | Fargo-Valley City | 00109 |
| MA | Boston-Manchester | 00006 | ND | Minot-Bismarck-Dickinson-Williston | 00152 |
| MA | Springfield-Holyoke | 00098 | NE | Lincoln-Hastings-Kearney | 00099 |
| MD | Baltimore | 00022 | NE | Omaha | 00073 |
| MD | Salisbury | 00163 | NM | Albuquerque-Santa Fe | 00048 |
| ME | Bangor | 00155 | NM | Clovis | 00220 |
| ME | Portland-Auburn | 00076 | NV | Las Vegas | 00074 |
| ME | Presque Isle | 00205 | NV | Reno | 00118 |
| MI | Detroit | 00009 | NY | Albany-Schenectady-Troy | 00053 |
| MI | Flint-Saginaw-Bay City | 00060 | NY | Binghamton | 00135 |
| MI | Grand Rapids-Kalamazoo-Battle Creek | 00037 | NY | Buffalo | 00038 |
| MI | Ironwood | 00222 | NY | Elmira | 00172 |
| MI | Lansing | 00105 | NY | New York | 00001 |
| MI | Marquette-Escanaba | 00175 | NY | Rochester | 00069 |
| MI | Traverse City-Cadillac | 00121 | NY | Syracuse | 00067 |
| MN | Duluth-Superior | 00126 | NY | Utica | 00161 |
| MN | Minneapolis-St. Paul | 00014 | NY | Watertown | 00170 |
| MN | Rochester-Mason City | 00148 | OH | Cincinnati | 00031 |
| MO | Columbia-Jefferson City | 00151 | OH | Cleveland-Akron-Canton | 00012 |
| MO | Joplin-Pittsburg | 00146 | OH | Columbus | 00034 |
| MO | Kansas City | 00029 | OH | Dayton | 00052 |
| MO | Paducah-Cape Girardeau-Harrisonburg | 00077 | OH | Toledo | 00064 |
| MO | Springfield | 00080 | OH | Youngstown | 00092 |
| MO | St. Joseph | 00193 | OK | Oklahoma City | 00043 |
| MO | St. Louis | 00018 | OK | Tulsa | 00059 |
| MS | Biloxi-Gulfport-Pascagoula | 00180 | OR | Bend | 00202 |
| MS | Columbus-Tupelo-West Point | 00127 | OR | Eugene | 00116 |
| MS | Greenwood-Greenville | 00179 | OR | Medford-Klamath Falls | 00145 |

## TV Guide

| State | Broadcast Area | ZIP Code |
|---|---|---|
| OR | Portland | 00027 |
| PA | Erie | 00142 |
| PA | Harrisburg-Lancaster-Lebanon-York | 00044 |
| PA | Johnstown-Altoona | 00089 |
| PA | Philadelphia | 00004 |
| PA | Pittsburgh | 00017 |
| PA | Wilkes Barre-Scranton | 00051 |
| RI | Providence | 00045 |
| SC | Charleston | 00106 |
| SC | Columbia | 00086 |
| SC | Florence-Myrtle Beach | 00136 |
| SC | Greenville-Spartanburg-Asheville-Anderson | 00035 |
| SD | Rapid City | 00168 |
| SD | Sioux Falls-Mitchell | 00108 |
| TN | Chattanooga  (CT) | 00208 |
| TN | Chattanooga  (ET) | 00085 |
| TN | Jackson | 00185 |
| TN | Knoxville | 00063 |
| TN | Memphis | 00042 |
| TN | Nashville | 00033 |
| TN | Tri-Cities Tn-Va | 00091 |
| TX | Abilene-Sweetwater | 00157 |
| TX | Amarillo | 00129 |
| TX | Austin | 00065 |
| TX | Beaumont-Port Arthur | 00137 |
| TX | Corpus Christi | 00123 |
| TX | Dallas-Ft. Worth | 00008 |
| TX | El Paso | 00100 |
| TX | Houston | 00010 |
| TX | Laredo | 00198 |
| TX | Lubbock | 00149 |
| TX | McAllen-Harlingen-Weslaco-Brownsville | 00113 |
| TX | Odessa-Midland | 00150 |
| TX | San Antonio | 00036 |
| TX | Sherman-Ada | 00156 |
| TX | Tyler-Longview-Lufkin-Nacogdoches | 00114 |
| TX | Waco-Temple-Bryan | 00096 |
| TX | Wichita Falls | 00141 |
| UT | Salt Lake City | 00041 |
| VA | Charlottesville | 00197 |
| VA | Harrisonburg | 00173 |

| State | Broadcast Area | ZIP Code |
|---|---|---|
| VA | Norfolk-Portsmouth-Newport News | 00040 |
| VA | Richmond-Petersburg | 00061 |
| VA | Roanoke-Lynchburg | 00066 |
| VT | Burlngton-Plattsburg | 00093 |
| WA | Seattle-Tacoma | 00013 |
| WA | Spokane | 00078 |
| WA | Yakima-Pasco-Richland-Kennewick | 00124 |
| WI | Green Bay-Appleton | 00072 |
| WI | La Crosse-Eau Claire | 00128 |
| WI | Madison | 00090 |
| WI | Milwaukee | 00028 |
| WI | Wausau-Rhinelander | 00133 |
| WV | Bluefield-Beckley-Oak Hill | 00147 |
| WV | Charleston-Huntington | 00055 |
| WV | Clarksburg-Weston | 00160 |
| WV | Wheeling | 00144 |
| WY | Casper-Riverton | 00194 |
| WY | Cheyenne-Scottsbluf | 00196 |

# Getting Help

- FINDING MORE INFORMATION
- TROUBLESHOOTING

# FINDING MORE INFORMATION

How to get help:

• You can find more information on the www.dtvpal.com website.

## Troubleshooting

### Missing specific channels

1. Your DTVPal is only able to tune digital over-the-air channels. It is possible that some of the channels you are missing are channels that are still broadcasting in analog.

2. You can go to the website www.antennaweb.org to find out which channels in your area are currently broadcasting a digital signal. If the channel you are missing is still broadcasting in analog, you can view the channel using the TV's tuner. To view analog channels, press the ANALOG PASS-THROUGH button on the DTVPal DVR remote control, then change channels on your TV using your TV's remote control. When you want to return to watching digital channels using your DTVPal DVR, change back to the correct channel (3 or 4) or input/source, and press the ANALOG PASS-THROUGH button again.

### Signal loss on all channels

1. Try a different channel. Sometimes, just one channel may be experiencing a problem, while other channels are fine. If just one channel seems have the problem, go to the next section, *Signal loss on one or some channels*. If all channels are experiencing the problem, then continue with Step 2.

2. Verify that the coax cable connecting to the **Over The Air Antenna In** connection is hand tight, and is connected to your over-the-air antenna.

3. Verify that your over-the-air antenna is still in place, and does not appear to have moved. If the antenna is moved out of proper alignment, then you may receive signal loss messages on some or all of your channels.

4. Try resetting your DTVPal DVR. Press the POWER button on the DTVPal DVR remote control to turn it off (in standby mode), then unplug the DTVPal DVR from the power outlet for 15 seconds, plug it back in, and POWER it back on.

5.  Check the signal strength on your over-the-air channels. Using your DTVPal DVR remote control, press MENU, select **Setup**, **System Setup**, **Channel Setup**, then **Add a New Channel**. Find a channel that is experiencing problems, and verify that it has a strong signal. Channels with an indicated signal strength below approximately 60 are likely to experience loss of video.

6.  Your over-the-air antenna may need to be adjusted. Contact your local retailer for assistance. If you want to try adjusting the antenna yourself, refer to any instructions accompanying the antenna, or to www.antennaweb.org for antenna recommendations and general information on antenna alignment.

### Signal loss on one or some channels

1.  Try a different channel. Sometimes, just one channel may be experiencing a problem, while other channels are fine. If all channels are experiencing the problem, go to the previous section, *Signal loss on all channels*. If just one channel or a few channels seem to have a problem, then continue with Step 2.

2.  Your DTVPal DVR is only able to tune in digital over-the-air channels. If you are missing some channels, it is possible that some of them are channels that are still broadcasting analog signals. See *Missing specific channels* on page 42.

3.  You can refer to the website www.antennaweb.org for lists of which channels in your area are currently broadcasting digital signals. If the channel or channels  you are missing is/are still in analog, you can view the channel(s) using the TV's built-in tuner. To view analog channels, press the ANALOG PASS-THROUGH button on the DTVPal DVR remote control, then change channels on your TV using your TV's remote control. When you want to return to watching digital channels using your DTVPal DVR, change back to the correct channel (3 or 4) or input (source), and press the ANALOG PASS-THROUGH button again.

### Remote is not working

1.  Verify the batteries are installed according to the battery diagram in the remote control.

2.  Try changing the batteries in the DTVPal DVR remote control. Batteries should all be of the same type and size.

3.  Make sure you are pointing the remote control directly at the front panel of the DTVPal DVR. The remote uses infrared (IR) signals to operate the DTVPal DVR (and any other equipment you have programmed in

# Getting Help

## Finding More Information

the other device modes), and therefore must have line of sight to the front of the DTVPal DVR (or other equipment).

### Forgot password for locks

1. Locate the Receiver ID number by pressing MENU on the DTVPal DVR remote control, selecting **Setup**, **System Setup**, then **System Information**. Write down the Receiver ID number (before the dash).

2. To reset your password, press MENU on the DTVPal DVR remote control, select **Setup**, then **Locks**. Enter the last four digits of your Receiver ID number (before the dash) as a temporary password, then select **Change Password** to choose a new password. When prompted for your old password, you must re-enter your temporary password before you can enter and then confirm a new password.

### Program Guide issues

1. If you try to display future programs in the Program Guide or Browse Banner, but are unable to find the schedule you are looking for, you may try displaying the Program Guide again later. By that time, updates may show programs for the times you want.

2. The Program Guide and Browse Banner can display only programs that have not yet ended. They cannot display a time earlier than the present.

3. If some channels are missing when you are using the Program Guide or Browse Banner, you may have locked the DTVPal DVR to hide adult channels, or you may have applied a Favorites List other than All Chan. Unlock the DTVPal DVR (see *Locks* on page 20), or choose a different Favorites List (see *Customizing the Guide and Channel Lists* on page 23), respectively, to show the channels you are missing in the guide.

4. For the full guide to be displayed, TV Guide data must be transmitted in your area. You have access to the TV Guide data if you see the TV Guide logo in the top right corner of the program guide. If the TV Guide logo is not showing, then please check that your ZIP code has been entered correctly. Once the ZIP code is verified correct, wait until the following day to recheck the Program Guide screen. If the TV Guide logo is still not present, then unfortunately the extended guide data may not be available in your area.

### Timer issues

1. If a program is locked, you must enter the password to create a timer.

2. If you have set up the maximum number of event timers, the DTVPal DVR displays an error message if you try to set up another, giving you the option to delete an existing event timer.

3. If you try to set up a manual timer with invalid start or stop times (for example, an event stop time that occurs before its start time), you will see an error message.

4. If you stop or skip a timer that is repeated, the next showing of the event is not affected. To stop all occurrences, you must delete the event timer. (A timer with a frequency of Once is deleted when it has occurred.)

5. If you set a timer that misses the beginning or end of a program, you may want to use or change the Start Early or End Late options for the timer, or set a manual timer to begin and end at times you specify.

### Events not recording

1. Ensure any event timers you have set that you want to record programs are set as DVR timers, and not as Auto-Tune/Reminder timers.

2. If you set up a repeating event timer, but it does not record a showing of the program, double-check that you set the correct frequency for that program (Weekly, Daily, Mon-Fri.).

### Events disappearing from DVR list

1. If you run out of space on your DTVPal DVR, recordings that are not protected will begin to be erased, starting with the oldest unprotected one, as needed to make room for new recordings, as they occur.

2. If you do not want a recording to be deleted, select **Protect** on the screen for that recording.

## Finding More Information

# APPENDIX

## LIMITED WARRANTY

## FCC COMPLIANCE

# LIMITED WARRANTY

⚠ This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your Bill of Sale for warranty service! Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

## What the Warranty Covers

This warranty extends only to the original user of the equipment and is limited to the purchase price of each part. DISH Network Corporation and its affiliated companies ("DISH Network") warrant this system against defects in materials or workmanship as follows:

- **Labor**: For a period of 90 days from the original date of purchase, if DISH Network determines that the equipment is defective subject to the limitations of this warranty, it will be replaced at no charge for labor. DISH Network warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.
- **Parts**: For a period of 90 days from the original date of purchase, DISH Network will supply, at no charge, new or re-manufactured parts in exchange for parts determined to be defective subject to the limitations of this warranty. DISH Network warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period.
  **Note**: "Parts" means items included in this package, which may include the TV converter and remote control. It does not include other parts purchased separately.

## What the Warranty Does Not Cover

- This warranty does not cover installation of the system. If applicable, such installation will be warranted under a separate installation agreement.
- This warranty does not cover consumer instruction, physical setup or adjustment of any consumer electronic devices, remote control batteries, signal reception problems, loss of use of the system, or unused programming charges due to system malfunction.
- This warranty does not cover cosmetic damage, damage due to lightning, electrical or telephone line surges, battery leakage, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than authorized factory service, use of accessories not recommended by the TV converter manufacturer, negligence, commercial or institutional use, or improper or neglected maintenance.
- This warranty does not cover equipment sold AS IS or WITH ALL FAULTS, shipping and handling, removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner prescribed, nor equipment purchased, serviced, or operated outside the continental United States of America.

## If You Need Assistance

1  Call the customer support number at 1-888-667-0633 or visit our website www.DTV-Pal.com. Have the date of purchase and your receiver ID number available. Press the SYSTEM INFO button on the remote control to display the receiver ID number.
2  A Customer Service Representative will assist you. If the Representative determines you should return any equipment, you will be given steps and an address for which to return your equipment. Whether under warranty or not, you will be responsible for the cost of shipping back the defective equipment.

3    Returned equipment must be packaged properly, using either the original shipping materials or other appropriate packaging. Include a copy of the Bill of Sale. Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

4    Follow the instructions given to you by the Customer Service Representative when returning your equipment for service.

## Legal Limitations

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. DISH NETWORK SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS SYSTEM, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS SYSTEM. UNDER NO CIRCUMSTANCES SHALL DISH NETWORK'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS SYSTEM. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS SYSTEM IS LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY. DISH NETWORK RESERVES THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF DISH NETWORK DETERMINES ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS SYSTEM NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE TV CONVERTER HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

# FCC COMPLIANCE

⚠ The following text is extracted from Federal Communications Commission (FCC) regulations, as of the publication date of this *Guide*. Contact the FCC (see following) or your library for the complete text of the regulations.

## Compliance Information Statement

DISH Network Corporation, 9601 S. Meridian Blvd, Englewood, CO., (303) 723-1000, declares that: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Do not make changes or modifications to this equipment. This could void the user's authority to operate the equipment.

There are many devices that allow you to connect your antenna to your in-home distribution system such as splitters, and amplifiers. The FCC requires that the isolation between the antenna port and the network port of your system meet the following:

- 80dB from 54 MHz to 216 MHz, at least
- 60dB from 216 MHz to 550 MHz and at least
- 55dB from 550 MHz to 806 MHz

Measuring the isolation of a device requires specialized equipment. In most cases, it is easier to purchase a splitter or amplifier with the correctly specified isolation from your local television retailer. The above requirements are extracted from 47CFR15.115. For the complete text please visit WWW.FCC.GOV.

# FCC DIGITAL TELEVISION TRANSITION NOTICE

February 17, 2009 marks the date when local over-the-air full-power TV broadcasts will transition from analog to digital within the United States. Consumers with analog TVs, who rely on an over-the-air antenna to receive their local broadcast TV programming, will need a digital-to-analog converter box, a digital TV with a digital tuner, or to subscribe to a pay TV service like DISH Network to display those digital broadcasts. Analog TVs that do not use one of those methods to get a digital signal will continue to work for other purposes, including watching low-power TV stations still broadcasting in analog, watching pre-recorded movies with a DVD player or VCR, or playing video games.

Great news!

Your new DTVPal DVR allows you to continue enjoying the over-the-air digital broadcasting programming available in your area. Your new DTVPal DVR also allows you to receive analog broadcasts simply by pushing the Analog Pass-Through on your remote. This is a great feature to view those low-power TV stations that do not convert to digital on 2/17/09.

Additional information regarding the digital television transition, including information about subsidized coupons for digital-to-analog converter boxes, is available at www.dtvpal.com, www.DTV.gov, www.dtv2009.gov, 1-888-DTV-2009, or 1-888-CALL-FCC.

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**Appendix**