The TiVo button takes you to the TiVo Central® screen, the starting point for all your TiVo features and settings.

If programmed, TV PWR turns your TV or A/V receiver on/off. See page 68 for more information.

Use Input to select the input such as your TiVo box, DVD player, game, or a TV display.

Use Zoom to zoom-in out of a photo on your TV.

If programmed, Volume controls the volume on your TV or A/V receiver.

If programmed, Mute turns the volume on your TV or stereo on or off.

Use the Thumbs Up and Thumbs Down buttons to rate shows for TiVo Suggestions. Use one thumbs up (great!), two thumbs up (very good!), or three thumbs up (excellent!).

Back rewinds backwards a program. Press it up to three times for three speeds. When a show is paused, press Back to go back frame-by-frame.

Passes through a show. Press it again to resume playing.

Slow plays a show in slow motion.

Instant Replay repeats the last 8 seconds of the show. While rewinding a recording, press Instant Replay to jump to the previous 8-second mark.

The buttons are used for additional functions. Look for the on-screen tips.

Use Number buttons to enter channel numbers.

Clear removes the display of the channel banner or program guide, and deletes titles from the Now Playing or TiVo To Do list.

Back goes back to the previous menu.

TiVo® Remote Control

Live TV/Swap takes you to live TV. If you’re watching live TV, use it to switch to the other live TV feed.

Info shows the channel banner while watching live TV, press it again to make it disappear.

Guide shows you the program guide, where you can find shows to watch or record. Press it again to close the guide.

Use Select to choose menu options or shows to record.

Use the Arrow Buttons to navigate the TiVo menus and the program guide.

Press Record to start recording the show you’re watching, or to set up a recording for a show selected in the program guide.

Play starts playing a show from the Now Playing List. When you are using pause, rewind, fast-forward or slow, pressing Play will resume playing at normal speed.

Advance moves forward in 30-second increments. While fast-forwarding a recording, press Advance to jump to the next 30-second mark.

Stop a show from playing or recording.

Enter/Prev returns you to the last channel tuned to in live TV or the program guide, press Enter/Last to use these options.

Active displays the DIRECTV Active™ channel, with local weather and more.

The TiVo® button takes you to the TiVo Central® screen, the starting point for all your TiVo features and settings.

If programmed, TV PWR turns your TV or A/V receiver on/off. See page 68 for more information.

Use Input to select the input such as your TiVo box, DVD player, game, or a TV display.

Use Zoom to zoom in/out of a photo on your TV.

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Enter/Prev returns you to the last channel tuned to in live TV or the program guide, press Enter/Last to use these options.

Active displays the DIRECTV Active™ channel, with local weather and more.
Some buttons on your TiVo remote control are programmable:

- **TV POWER**
- **TV INPUT**
- **VOLUME & MUTE** (can control sound on your TV or A/V receiver)

To program your TiVo remote, press the TiVo button to go to the TiVo Central® screen and select Messages & Settings, then Settings, then Remote & Devices, then Remote Control. Follow the easy on-screen instructions.

Due to the wide variety of brands and models available, some TVs and A/V receivers are not compatible with your TiVo remote.

To navigate the TiVo HD DVR from DIRECTV’s on-screen menus, use the remote control’s arrow buttons to move to the option you want, then press SELECT.

The LEFT arrow button often takes you to the previous screen.

Two Types of On-Screen Arrows

The arrows that appear beside or near the highlight bar show the directions it can move. For example, on this screen, you could press the RIGHT arrow to highlight Options or the DOWN arrow to highlight “View upcoming episodes.”

Glossary of Icons

- **Now Playing**
  - This program will be saved until you delete it.
  - In less than one day, this program may be deleted to make room for other recordings you have requested, but only if space is needed.
  - At any time, this program may be deleted to make room for other programs you have requested.
  - This program is currently being recorded.
  - This program is currently being downloaded.
  - This program is a TiVo® Suggestion. TiVo Suggestions are recorded only if space is available, and are the first to be deleted when space is needed.
  - This folder contains more than one episode of the same series.
  - This folder contains a program that is currently recording or transferring.
  - This folder contains one or more programs recorded by a WishList® search.
  - This folder contains all programs recorded as TiVo Suggestions.

- **To Do List and View Upcoming Episodes**
  - (These icons appear beside programs scheduled to be recorded.)
  - Program will be recorded as an individual recording (not part of a Season Pass® recording or WishList® search). In other places, indicates that an item has been selected.
  - Program will be recorded as part of a Season Pass recording.
  - Program will be recorded as part of a WishList search.

- **Live TV**
  - These appear when you press THUMBS UP or THUMBS DOWN. You can rate a program with up to three Thumbs Up™ or three Thumbs Down™.
  - iPreview® icons appear when an option—such as automatically scheduling an upcoming program or watching an additional program segment—is available. Press SELECT or THUMBS UP to choose the option.
  - These appear when you press THUMBS UP or THUMBS DOWN. You can rate a program with up to three Thumbs Up™ or three Thumbs Down™.

- **TiVo Central® and Showcases**
  - Indicates a selection that has some special video content.
  - Select to watch a special preview or visit a Showcase.
  - Indicates news or a special promotional offer from TiVo.
  - Preview® icons appear when an option—such as automatically scheduling an upcoming program or watching an additional program segment—is available. Press SELECT or THUMBS UP to choose the option.

- **On-Screen Menus and the Remote Control**
  - To navigate the TiVo HD DVR from DIRECTV’s on-screen menus, use the remote control’s arrow buttons to move to the option you want, then press SELECT.
  - The LEFT arrow button often takes you to the previous screen.

- **Two Types of On-Screen Arrows**
  - The arrows that appear beside or near the highlight bar show the directions it can move. For example, on this screen, you could press the RIGHT arrow to highlight Options or the DOWN arrow to highlight “View upcoming episodes.”

- **Glossary of Icons**
  - Program will be recorded as a TiVo Suggestion. TiVo Suggestions are recorded only if space is available, and are the first to be deleted when space is needed.
  - This folder contains more than one episode of the same series.
  - This folder contains a program that is currently recording or transferring.
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- **TiVo Central® and Showcases**
  - Indicates a selection that has some special video content.
  - Select to watch a special preview or visit a Showcase.
  - Indicates news or a special promotional offer from TiVo.
Welcome
This Viewer’s Guide describes features of the TiVo® service running on the TiVo HD DVR from DIRECTV (model THR22-100).

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Important Safety Instructions

Your TiVo HD DVR from DIRECTV has been designed and manufactured to stringent quality and safety standards. You should, however, be aware of the following important precautions for safe and optimal use of the equipment.

Meaning of symbols printed on the rear panel of the product:

This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong 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) Only use 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 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.
14) Ensure proper ventilation — the vent slots on the DVR must be left uncovered to allow proper airflow to the unit. Blocking the


airflow to the unit could impair performance or damage your DVR and other components.

- Do not stack electronic components or other objects on top of the DVR. Also, do not stack the DVR on top of a “hot component” such as an audio power amplifier.

- Protect your components from power surges by connecting all the components before plugging any power cords into the wall outlet. Use of a surge protector is also recommended.

- Don’t overload power outlets or extension cords, which can result in the risk of fire or shock. It’s also important to use only the type of power source indicated on the marking label or in this manual.

- Avoid audio hum or interference by inserting all cable plugs firmly into their jacks. Also, place Audio/Video (A/V) cables to the sides of the TV back panel rather than down the middle once connected. Try not to coil any twin-lead cables and keep them away from A/V cables as much as possible.

- Never insert objects of any kind into any openings in the DVR (other than the DIRECTV® Access Card as detailed in this manual).

- Place it on a flat, hard surface — do not operate the DVR on a carpet or other padded surface.

- Always unplug your DVR before moving it.

- Always unplug the DVR, TV and other equipment before you connect or disconnect any cables.

- The only way to disconnect the DVR from the power supply is to remove the power cord. The DVR must therefore be installed next to the power point which must be easily accessible.

- CAUTION: Electric Shock — never attempt to disassemble the DVR yourself; always take it to a qualified service person when repair is required. Opening or removing covers may expose dangerous voltage or other risks, and incorrect reassembly can cause shock when the DVR is subsequently used. Attempted self-repair may also void your warranty. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

- Do not drop your DVR and always move it with care.

- Have your DVR professionally serviced (do not attempt to service it yourself).

- Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

- If you move your DVR between locations at different temperatures, allow it to reach room temperature before you apply power to it.

- Do not pick up or otherwise move your DVR while it is connected to the AC power supply. If you want to move your set-top box, first disconnect it, then wait at least 30 seconds before continuing
• To reduce the risk of fire, use only No. 26 AWG or better telecommunications line cord.

• Batteries (for instance, in the TiVo remote control) should not be exposed to excessive heat (such as from sunshine, fire, etc.).

For your information: The identification sticker can be located underneath or on the back of your DVR.

The telecommunication network voltage used is the category number 3.

NOTE TO SATELLITE DISH INSTALLER

This reminder is provided to call your attention to articles 810 and 820 of the 2005 National Electrical Code. Refer to article 810, in particular 810-1 and 810-15, for required grounding of the metal structure of the dish antenna. Refer also to the 810-2 which, by reference to article 820, requires that the satellite dish coaxial cable shield be connected to the grounding system of the building as close to the point of cable entry as practical.

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION! To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

IMPORTANT: Be sure not to place your DVR near anything WET or HOT! If this product is used at 240VAC, a suitable attachment plug should be used.

CAUTION! Avoid moisture to reduce the risk of fire or electric shock. The DVR should not be used near water (for example, kitchen sink, bathtub, pool, damp basement). Also, never spill liquid on the DVR, and do not place vases or other vessels containing liquid on top of it.

TIP: We highly recommend plugging the DVR into a surge protector to prevent damage from fluctuations in your power supply.
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Welcome to TiVo on DIRECTV®!

Welcome to the TiVo HD DVR from DIRECTV. Now that you’re plugged in, it’s time to start enjoying your access to over 285 channels of TV programming that includes movies, sports, music, and special events, plus an extensive Pay Per View selection and, if you connect your DVR to the Internet, access to DIRECTV on Demand, where you can download from a library of thousands of shows via your home broadband service. This guide will take you step by step through everything you need to know to get the most out of the TiVo service on DIRECTV.

Note: DIRECTV on Demand service requires a receiver connected to the Internet, TiVo service and any other applicable monthly Advanced Receiver fees, DIRECTV CINEMA connection kit, broadband Internet service with a connection speed of 750 Kbps or higher (DSL or cable), a network router with an available Ethernet port, a land-based phone line connection, and an available wall outlet.

Getting started:

1. **Using this guide.** If you’re new to DVRs or just want to know the essentials, simply read the Quick Tours in Chapter 1. If you want more details, you’ll find them in the rest of this guide.

2. **Getting connected.** If a professional installed your DVR, you are ready to start watching TV. If your DVR was not professionally installed or you just added a surround sound system or other equipment, please see “Installation and Connections” on page 75.

Remember:

- The TiVo HD DVR from DIRECTV requires a monthly TiVo Service Fee in addition to other applicable monthly Advanced Receiver service fees.
- For more information on pricing and programming, please visit directv.com.
- DIRECTV hardware and programming are available separately.
- The TiVo HD DVR from DIRECTV is not compatible with DIRECTV Whole-Home DVR service, TV Apps, Picture In Graphics, 3D Programming, YouTube, DIRECTV nomad™, GameSearch™, Spanish UI, DIRECTV2PC video streaming, and select other DIRECTV features. Please visit directv.com for more information.

Basic terms

Before you start learning about all that your TiVo HD DVR from DIRECTV can do, here are some terms you should know:

**Live TV.** If you’re watching a show as it’s being broadcast, you’re watching live TV. You can pause live TV for up to 30 minutes. When you resume watching, you’re “behind” live TV.
(You can always get to live TV by pressing the Live TV button on your remote).

**Dual tuner.** A tuner is a device found inside DVRs, TVs, satellite boxes — anything designed to receive TV signals, including the DVR. A tuner picks one channel to display; it “tunes” to that channel. Your DVR is a “dual tuner” device, meaning that it has two tuners inside and can record two shows at once. Pressing the Live TV button while watching live TV will swap between your two tuners, allowing you to watch what is on either tuner.

**Service updates.** From time to time, your DVR may receive updates, including features not described in this guide. For the latest how-to information, to find out what’s new, and to get great tips and tricks, visit directv.com.
Quick Tours

Tour One - The TiVo® menus  
Tour Two - Watching live TV  
Tour Three - Recording live TV  
Tour Four - Searching by title  
Tour Five - DIRECTV® on Demand  
Tour Six - DIRECTV® Pay Per View
Quick Tours

Tour One - The TiVo® menus

Your starting point — TiVo Central®

TiVo Central is the starting point for just about everything you do with your TiVo HD DVR from DIRECTV. From TiVo Central, you can see all the shows you’ve recorded, find new shows and set up recordings, explore great video on demand choices, and more.

To get to TiVo Central from live TV or from any TiVo screen, just press the TiVo button on your remote control.

Your Now Playing List

All the shows recorded by your DVR, including Pay Per View items and DIRECTV on Demand downloads, appear in the Now Playing List.

Highlight any title in the Now Playing List (even a show that’s still recording) and press PLAY to play the show from the beginning.

If your shows are grouped into folders (see “Grouping shows” below), highlight the group name and press PLAY to play all of the shows in the group in sequence, beginning with the oldest.

To delete an individual show or a group, highlight the show or group name and press CLEAR.

Sorting shows

You can view the Now Playing List either alphabetically by title (from A to Z) or by date recorded. To change how the list is sorted:

1. From ‘Now Playing List,’ choose a show, then press ENTER on your TiVo remote to see ‘Now Playing List Options.’
2. Highlight ‘Sort’, then press the LEFT arrow to choose ‘Alphabetically.’ Select ‘View Now Playing List with these options.’ When you return to Now Playing List, shows are listed alphabetically by title.

Note: You can bypass this screen and change these options in the Now Playing List using your remote control. Press 1 to change sort order; press 2 to turn Groups on or off.

Grouping shows

When Groups are on, shows are organized into folders, and a number in parentheses to the right of each folder shows how many shows it contains. Even if Groups are turned off, you’ll see the Recently Deleted group at the bottom of the Now Playing List. To turn Groups on:

1. From ‘Now Playing List,’ press ENTER on your TiVo remote to see ‘Now Playing List Options.’

2. Select Groups, then press the RIGHT arrow to choose ‘On.’ Then select ‘View Now Playing List with these options.’ When you return to Now Playing List, you’ll see a group for:
   - Each television series with more than one recorded episode.
   - Each auto-recording WishList® search with a recorded show.
   - TiVo Suggestions (if you have auto-recording of TiVo Suggestions turned on).

A show’s title may appear in more than one group, even though there is only one recording of the show. For example, you might have several episodes of a show in that show’s group, and the same titles in the HD Recordings group, which includes all shows recorded in HD. When you delete a show in one group, the title also disappears from any other group.

When your shows are grouped, you can highlight the group name, and press PLAY to play all of the shows in the group in sequence, beginning with the oldest.
Available space

You can turn on a small bar at the top of the Now Playing List so you know how much space you have available for new recordings on your DVR. To do this, just press the ENTER while viewing the Now Playing List to see the Now Playing List Options screen. Then highlight “Show available Space” and press the RIGHT arrow choose your display option.

Program Information

You can highlight any show in the Now Playing List and press SELECT to see the program information screen, which offers these options:

• **Play** (or **Resume playing** if you’re returning to a partially watched show).
• **Keep until...** By default, recordings are saved until space is needed for new shows. But you always have the option to keep a show for as long as you want. Just select ‘Keep Until...’ and on the next screen, choose ‘Keep Until I Delete’ or specify that the show be kept until a specific date you choose.
• **Delete Now** (or **Stop Recording** if recording is in progress).
• **Explore this program** Find details about the show, information about upcoming episodes and cast members, and suggestions for other shows you might like.
• **More Options** View upcoming episodes or broadcasts of a show or movie, or get a Season Pass® recording of a series.
**Tour Two - Watching live TV**

When you’re watching a show as it’s broadcast, you’re watching live TV. Press LIVE TV/ SWAP to go to live TV from any TiVo screen.

**Using the guide**

The program guide displays up to two weeks of TV programming at the touch of a button — the GUIDE button on your TiVo remote. When you press SELECT on a show in progress, the channel changes and the program guide disappears.

If you press SELECT on an upcoming show, you’ll see a screen with recording options. Set up your recording or press LEFT to go back to the guide.

**Moving around in time**

1. First, press the PAUSE button. You can pause live TV for up to 30 minutes.

   ![Status bar]

   When you pause live TV, you see a status bar showing a one-hour period. The green segment shows the portion of the hour that has been saved by your DVR. The white line marks your current point in time. When the white line is back in the green segment, you’re “behind” live TV.

2. Press PLAY to continue watching the show. Next, press REWIND and the show rewinds. Press REWIND a second time to rewind faster, and a third time to go at triple speed. Press PLAY at any time to return to normal speed.
Quick Tours

3. Press PAUSE to move a small step forward. Press REWIND to move a small step back. Press PLAY to resume watching at normal speed.

4. Press the INSTANT REPLAY button. The show jumps back eight seconds — useful for when you miss a great sports play or a bit of dialog, or for when you fast forward too far.

5. Press INSTANT REPLAY again, then immediately press SLOW to see your own slow-motion replay.

6. Press the ADVANCE button. You’ll instantly move forward 30 seconds.

7. Press and hold the ADVANCE button and presto! You’re caught up to live TV.

8. Press and hold the INSTANT REPLAY button to skip back to the beginning of the saved portion.

Changing channels

To move one channel at a time, press CHANNEL UP/DOWN on the remote.

To go to a specific channel, use the numbers on your remote control, then press ENTER. (If you don’t press ENTER, the channel changes automatically after a few seconds.) To jump back to the previous channel on the same tuner, press ENTER again.

Tired of channel surfing? Press GUIDE to display the program guide. Highlight any show and press SELECT. If the show is currently on, the channel changes. If the show is on later, you’ll see options to record it.

Local Channels

Your DIRECTV-provided local channels can be found from channel numbers 2 through 69. If you live in one of the few places in the U.S. where DIRECTV does not provide local channels,
you may use the DIRECTV AM21 Off-Air Tuner to receive them. Please refer to that manual for information about those channels.

**HD Channels**

DIRECTV has a tremendous offering of HD channels and they are spread throughout the guide. To find them, look for HD after the channel call sign in the channel column of the guide and also look for HD after the show title in the guide. If you want to see only the HD version of a channel in the guide see “Duplicate HD/SD Channels” on page 63.
Tour Three - Recording live TV

Watching and recording two shows at once

Your TiVo HD DVR from DIRECTV can record two different live TV channels at the same time — one on each of its two tuners. Go ahead, try it:

1. First, press PAUSE to pause the live TV show you’re watching.
2. Press LIVE TV/SWAP to swap to the other tuner.
3. Watch the show for a few moments, then press LIVE TV/SWAP again to swap back to the first tuner. Notice that the first show you were watching is still paused. Press PLAY (or PAUSE again) to continue watching the show.

Recording the show you’re watching

You can always record the show you’re watching — just press RECORD while watching either tuner — or on both tuners to record two shows at the same time. On the screen that appears, select ‘Record this showing.’ Select ‘Season Pass & other options’ for more choices.

Recording the saved portion

Up to 30 minutes of the current channel’s broadcast is always being saved, even when you’re not recording. When you change channels, the DVR clears the saved portion on the tuner you’re watching and starts saving again on the new channel. So, if the saved portion is important to you, either record the show or don’t change the channel.

To record the saved portion in addition to the rest of the show, choose ‘Record This Showing.’
Stopping a recording

You can stop any recording in either of two ways: select the title in your ‘Now Playing List,’ then select ‘Stop Recording’; or, press the RECORD button in live TV, then choose ‘Stop the Current Recording.’
Tour Four - Searching by title

Know the title of a show you want to record? Finding it is easy.

1. From TiVo Central, select ‘Find Programs’, then ‘Search by Title.’

2. Use the letter grid to spell out the title. Use the arrow buttons to move around, then press SELECT on each letter you want. (Skip “a,” “an,” or “the.”) As you select letters, an alphabetical list of shows appears on the right. Keep selecting letters until you see your show.

   If you make a mistake, you can press CLEAR to erase everything, or REWIND to erase one letter at a time. Insert a space by pressing FORWARD.

3. When you see your show, press the RIGHT arrow to move to the list. Then use the UP/DOWN arrows to highlight your show, and press SELECT. The program information screen shows your available options, like setting up a one-time recording or a Season Pass recording.

   All recorded shows appear in your Now Playing List, which you can access simply by pressing the TiVo button on your remote control twice.

Replace hyphens ( - ), slashes ( / ) and periods ( . ) with spaces. Any other marks, such as apostrophes ( ’ ), asterisks ( * ) and ampersands ( & ) are ignored. For example, use 6 OCLOCK NEWS to search for the title “6 O’Clock News.”

If you have an iPad, the free DIRECTV iPad app can also find and schedule programs. (Note: Not all iPad app features will work with your TiVo HD DVR from DIRECTV. See “Mobile Apps” on page 28 for more information.)
Tour Five - DIRECTV® on Demand

Connect your TiVo HD DVR from DIRECTV to the Internet and stream thousands of movies instantly to your TV. No matter what you're in the mood for, you'll find it on DIRECTV on Demand. Choose from thousands of titles to stream instantly to your TV any time -- many with Blu-ray quality picture (1080p) and many for free! Available titles include movies, music, popular television shows, animation, cartoons and more.

**Note:** To enjoy the DIRECTV on Demand service, you need your DVR connected to the Internet, TiVo service and any other applicable monthly Advanced Receiver fees, DIRECTV CINEMA Connection Kit, broadband Internet service with a connection speed of 750 Kbps or higher (DSL or cable), a network router with an available Ethernet port, a land-based phone line connection, and an available wall outlet.

**Note:** Not all titles are available in 1080p. To view programs in 1080p, the following are required: an HDMI cable connecting the receiver and the television, and a high-definition 1080p24 television. Not all models are compatible.

To get DIRECTV on Demand content:

1. Press the TiVo button on your remote control to go to TiVo Central. Then select ‘DIRECTV on Demand.’
2. Select one of the following:
   - **DIRECTV on Demand Home.** View all On Demand titles (including TV, movies, music, cartoons, and more).
   - **DIRECTV CINEMA™.** View all the movie titles available on DIRECTV on Demand.
   - **DIRECTV Showcase On Demand.** Learn more about all that DIRECTV has to offer.
3. On the left side of the screen, select a category, like “Top Picks” or “Kids & Family.”

4. Use the RIGHT arrow to move to the right side of the screen, and then select a subcategory, if available.

5. SELECT the title you want to download.

6. On the information screen, select ‘Download this program.’

7. To watch your show, even if it’s still downloading, go to your Now Playing List. Select the title, and then select ‘Buy & watch now.’
Tour Six - DIRECTV® Pay Per View

You don’t have to go out to see the best and biggest special events! Special sporting, comedy, and concert events (and more!) are available 24 hours a day with DIRECTV Pay Per View. You’ll find them listed in the program guide starting around channel 117.

Buying a show

You can record DIRECTV Pay Per View programs before you buy them, so you always have them ready to watch when you’re ready. You’ll only be charged if you watch them. As long as your DVR is connected to a land-based phone line or Ethernet connection, you can use your remote to order.

1. To buy a show, tune to its PPV channel directly or highlight it in the program guide.
2. Press SELECT.
3. Select ‘Buy & watch now’ to watch the show now. Select ‘Record for later viewing’ to record the show, then watch it later. Or, to find other available showings of a program, select ‘View upcoming showings.’

Canceling a show

You can cancel your Pay Per View order for any reason as long as only the free preview section of the show has been viewed. If the show has already been recorded, highlight the show in your ‘Now Playing List’ and press the CLEAR button to delete it. If the show is set to record in the future, press the TiVo button to go to TiVo Central, then select ‘Find Programs’ > ‘To Do List.’ Highlight the show and press the CLEAR button to delete it.
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Using the program guide to find shows

The program guide displays up to two weeks of TV programming at the touch of a button — the GUIDE button on your TiVo remote. When you press SELECT on a show in progress, the channel changes and the program guide disappears.

If you press SELECT on an upcoming show, you’ll see a screen with recording options. Set up your recording or press LEFT to go back to the guide.

Grid guide versus the TiVo Live Guide

You can choose to display the guide as a grid or use the TiVo Live Guide. The grid guide, shown in the first figure, displays show and programming information rows. The TiVo Live Guide, shown in the second figure, displays currently airing shows on the left. When you highlight a show title on the left, programs airing on that channel at other times appear on the right.

To choose which display you want to use, when you’re viewing the guide, press ENTER to display Guide Options and choose the view you want.

Using the grid guide

The grid guide displays your channels in the left column, and each channel’s programming to the right in half-hour increments.

To move around in the grid guide, highlight a show title.

- Press FORWARD to move the displayed time one screen ahead, or press REWIND to move it one screen backward.
• Press ADVANCE \( \rightarrow \) to jump 24 hours ahead, or INSTANT REPLAY \( \leftarrow \) to jump 24 hours back.

### Using the TiVo Live Guide

The TiVo Live Guide displays your channels in the left pane, and the selected channel’s programming in the right pane.

To move around in the TiVo Live Guide, move the highlight to a channel in the left pane.

• Press FORWARD \( \uparrow \) to move the displayed time ahead one half-hour at a time, or press REWIND \( \downarrow \) to move it backward.

• Press ADVANCE \( \rightarrow \) to jump 24 hours ahead, or INSTANT REPLAY \( \leftarrow \) to jump 24 hours back.

### Setting filters on the guide

When you’re viewing the guide, press ENTER to display Guide Options. Set ‘Filtering’ to ‘On,’ then select ‘Choose Filter’ and choose category and sub-category filters.

When filtering is on, the guide shows only channels that have a show in the category you chose in the next six hours. Shows that fit the category are highlighted; other titles are dimmed. To see all channels again, set ‘Filtering’ to ‘Off.’

You can also use Guide Options to easily see what’s on at a particular day and time. Just enter the day and time you’re interested in, and the guide will jump to it.

### Choosing channels for the guide

You can use the Guide Options screen to choose which channels to display in the guide.

**All** Display all channels, even channels you don’t receive.
You Receive Display only the channels that are checked in the Channel List (recommended).

Favorites Display only the channels you rated as your favorites in the Channel List.

Finding more showings

For a comprehensive list of all upcoming showings of a program, including repeats, select the show from the guide, then select ‘Season Pass and other options,’ and ‘View upcoming episodes.’ You can use this list to choose the showing that is most convenient for you to record.
Searching by title

If you know the title of the show you want to record, finding it has never been easier.

1. From TiVo Central®, select ‘Find Programs’, then ‘Search by Title.’

2. Use the letter grid to spell out the title. Use the arrow buttons to move around, then press SELECT on each letter you want. (Skip “a,” “an,” or “the.”) As you select letters, list of matches appears on the right. The letters you’ve entered are highlighted. Keep selecting letters until you see your show.

If you make a mistake, you can press CLEAR to erase everything, or REWIND to erase one letter at a time. Insert a space by pressing FORWARD.

3. When you see your show, press the RIGHT arrow to move to the list. Then use the UP/DOWN arrows to highlight your show, and press SELECT. The program information screen shows your available options, like setting up a one-time recording or a Season Pass® recording.

Replace hyphens (-), slashes (/) and periods (.) with spaces. Any other marks, such as apostrophes (‘), asterisks (*) and ampersands (&) are ignored. For example, use 6 OCLOCK NEWS to search for the title “6 O’Clock News.”

If you have an iPad, the free DIRECTV iPad app can also find and schedule programs. (Note: Not all iPad app features will work with your TiVo HD DVR from DIRECTV. See “Mobile Apps” on page 28 for more information.)
Using Swivel™ search

When you use Swivel Search, you can search by show title or actor’s name, and your search results show broadcast, On Demand, and Pay Per View shows. To use Swivel Search, your DVR must be broadband-connected.

1. To start searching, choose ‘Find Programs’ from TiVo Central, then select ‘Swivel Search.’
2. Enter the first few letters of a show title or actor’s name. A list of search results will appear.
3. Select a show title or actor’s name to see more details and schedule recordings.
   • For a show, you can schedule a recording or a create a Season Pass recording from the program details screen (see “Season Pass® recordings” on page 22). You can also view upcoming episodes, explore details about the cast, or learn about other shows that might interest you.
   • For an actor, you can browse TV shows or movies featuring this actor, or create a WishList search (see “WishList® searches” on page 23).
Recording by time or channel

If you don’t remember the exact name of a show, but you know what time or channel it’s on, use ‘Record by Time or Channel.’ You’ll have three options:

**Browse by time** Browse shows on a specified day and time. You can filter the list to see only shows in a particular category. For example, you can browse all movies airing on Saturday night.

**Browse by channel** Browse through shows airing on a particular channel. You can start with all channels, or just your favorites.

**Set up manual recording** Schedule a recording on a specific channel at a specific time.
Finding shows

Season Pass® recordings

A Season Pass recording automatically records every episode of a series that airs on a certain channel — even if the day or time changes! Just select a show from the guide or your search results, and choose ‘Get a Season Pass.’

If the TiVo service finds any conflicts in scheduling upcoming episodes of the Season Pass recording, you’ll be asked to choose whether you want to keep the previously scheduled recording or record the new show instead.

Season Pass recording options

When you set up a Season Pass recording, you can choose how many episodes to keep and how long to keep them using Recording Options. Choose ‘First run only’ if you want to skip the reruns.

You can change the options of an existing Season Pass recording by choosing ‘Season Pass Manager,’ choosing the show whose options you want to modify, then ‘Choose recording options.’

You can cancel the recording of any episode in a Season Pass recording by highlighting the title in the To Do List and pressing CLEAR. You can delete the entire Season Pass recording or change recording options using the Season Pass manager. See page 30 for more information about the To Do list and Season Pass manager.
WishList® searches

A WishList search finds shows that match your search criteria on any channel you receive — and it keeps on searching for as long as you keep the WishList search.

You can search for something specific by creating a WishList search with multiple criteria: for instance, you might create a WishList search for actor John Smith, category Movies, and sub-category Action. This WishList search would find action movies starring John Smith.

You can even use WishList searches to find something very specific. For example, the Keyword TORPEDOES with category Football would find Torpedoes football games, but not Torpedoes baseball games.

Creating a WishList search

Creating a WishList search is simple:

1. From TiVo Central, choose ‘Find Programs,’ then ‘WishList Search,’ then ‘Create a WishList Search.’

2. Next, start choosing criteria for your WishList search. You can choose any or all of the following:
   
   **Keyword** Search for shows with specific words in the show or episode title, description, actor, director, year, or category.

   **Title Keyword** Search for shows with specific words in the show or episode title.

   **Actor** Search for shows with your favorite actor.

   **Director** Search for shows by a specific director.

Not all actor or director names may be listed. To search for a name that is not on the list, enter the name in the format: LAST NAME, FIRST NAME. You must match the spelling of the name exactly, and you must use a comma (available in the grid under the letter W).
Finding shows

Category Search for specific categories and sub-categories of shows (for example, action movies or nature documentaries).

3. After entering your initial search criteria, you’ll return to the Create WishList Search screen. Continue adding as many search criteria to your WishList search as you like. For instance, you could create a WishList search like this:
   - Keyword: Chocolate
   - Category: Dessert
   - Category: Baking

   Your results would include only cooking shows about chocolate desserts.

4. The TiVo service automatically assigns a name to your WishList search. To assign a different name, select ‘WishList Name.’

5. When you’re finished entering search criteria, select ‘Done creating this WishList search.’

After you’ve created the WishList search, you can do any of the following:

View upcoming episodes You’ll see a list of shows airing in the next two weeks or so that match your WishList search criteria. You can choose to record individual shows from the list.

Auto-record WishList programs Your DVR will automatically record any shows matching your WishList search criteria until you modify or delete the WishList search.

Edit or delete WishList search You can change the WishList search — for example, to correct a misspelling or to add a category to narrow the results — or cancel it.
Finding shows

Using the Asterisk (*) in WishList searches

To search for similar words in a Keyword or Title WishList search, use the asterisk (*) as a wildcard symbol that replaces the endings of words. For example, the keyword AIRP* would find shows containing “airport,” “airplane,” or “airplanes.” To enter an asterisk, press the SLOW button on the remote.

Tips for entering keywords

• Use quotation marks to specify an exact phrase in a Keyword or Title Keyword WishList search (to enter quotation marks, press PAUSE).
• Replace hyphens (-), slashes (/) and periods (.) with spaces.
• Any other marks, such as apostrophes (’), and ampersands (&), are ignored. For example, you would use the keyword phrase 6 OCLOCK NEWS to search for the title “6 O’Clock News.”
• For dollar signs ($) substitute the letter S.

Auto-recording a WishList search

You can set a WishList search to auto-record, and it will record every show it finds, on any channel you receive.

Each auto-recording WishList search and its upcoming recordings are marked with a star in To Do List and the Season Pass manager. If you want to be sure that all matching shows are recorded, give the auto-recording WishList search a high priority in the Season Pass manager. See page 31 for details.

You can use the asterisk only at the end of a keyword, not to omit letters at the beginning or in the middle of a word.

The more specific a WishList search is, the better suited it is to auto-recording. For example, a Category WishList search for the category Documentary would find every upcoming documentary. You might not want to record them all, but you could occasionally browse the search results list and choose the ones you do want to record.
Recommended shows

With all the programming available to your TiVo HD DVR from DIRECTV, sometimes you might want show recommendations. TiVo Suggestions are a result of the THUMBS UP ® or THUMBS DOWN ® ratings you give shows. Based on those ratings, TiVo Suggestions can automatically record recommended shows for you.

TiVo Suggestions

You can rate any show — whether it’s live, recorded, or listed in the program guide — by pressing the THUMBS UP ® or THUMBS DOWN ® button on your remote. You can give a show up to three Thumbs Up (great!) or three Thumbs Down (terrible!).

TiVo Suggestions uses these ratings to create a list of shows you might like. The more shows you rate over time, the better TiVo Suggestions will get at finding interesting shows for you.

Auto-recording TiVo Suggestions

When your DVR has available space, it automatically records TiVo Suggestions. But you don’t ever need to worry about recorded Suggestions taking up space — here’s why:

• TiVo Suggestions never replace shows you record, or prevent your shows from being recorded.

• TiVo Suggestions are always the first shows deleted to make room for your recordings.

If you’d prefer not to record TiVo Suggestions automatically, you can turn them off. From TiVo Central choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Recording,’ then ‘Auto-Record Suggestions?’
On the Auto-Record Suggestions screen, choose ‘No, don’t record TiVo Suggestions.’ You can still see the TiVo Suggestions list and choose to record individual shows.

**Viewing the suggestions list**

You can review a list of upcoming TiVo Suggestions by going to TiVo Central and choosing ‘Find Programs,’ then ‘TiVo Suggestions.’

The list is ranked, so shows you’re more likely to enjoy are near the top.

To record a show, highlight it and press either SELECT or RECORD on your remote. Or use THUMBS UP or THUMBS DOWN to rate shows and improve future recommendations.

**Watching TiVo Suggestions**

Recorded suggestions appear in the TiVo Suggestions group inside the Now Playing List. You can watch, save, or delete them just like any other shows.

**Reviewing your thumb ratings**

To display a list of all shows that you’ve rated, select ‘Find Programs,’ then ‘TiVo Suggestions.’ Press ENTER to see the Review Thumbs screen. Then, highlight a show and use the THUMBS UP and THUMBS DOWN buttons on your remote to change its rating.
Finding shows

Setting up a remote recording

Have you ever forgotten to set a recording and wish you could do it remotely from work or while on the go? Now you can, with DIRECTV’s DVR Scheduler. A brief description of the process is provided below, but go to directv.com/dvrscheduler for all the details.

From your computer

The first step is to register as a user on directv.com. Then go to directv.com/tvlistings to see an on-line version of your program guide. Simply navigate through the guide to find the show you want to record. Select the show, and then select “Record to Receiver.”

From your mobile phone

To schedule a recording from a mobile phone, use your phone’s Internet browser to go to m.directv.com. Sign in with your directv.com user name and password. Search for a show title or description. Pick your title from the search results and follow the step by step instructions to set the recording.

Note: Remote connections may vary. In rare instances, scheduled recording(s) may not be recognized.

Mobile Apps

DIRECTV’s free DVR Scheduler Mobile App is available for the iPhone®, Android™, Palm® Pre™, Palm® Pixi™, BlackBerry® smartphone, and Windows® Phone 7. Turn your smartphone into the easiest, fastest, most convenient way to find any program and set your home DVR.
If you have an iPad®, the free DIRECTV iPad app can do all this and more: it turns your iPad into a remote control, gives instant access to your favorite channels, shows, and sports scores, and lets you customize your home screen with the programming you watch most.

Go to directv.com/mobileapps for more information.
Managing recordings

The To Do List shows all your scheduled recordings and lets you change recording options or cancel recordings. The Season Pass manager prioritizes all your repeating recordings and lets you manage conflicts and set options.

Using the To Do List

To view the To Do List, from TiVo Central choose ‘Find Programs,’ then ‘To Do List.’

You’ll see a list of all shows scheduled to record in the next two weeks or so. Press SELECT on any show to see available options.

Canceling a Recording

To cancel a recording, just highlight the show title on the To Do List and press CLEAR.

Viewing recording history

Choose ‘View Recording History’ on the To Do List if you’re curious why a particular show or episode was not recorded, why it’s not scheduled to record, or when it was deleted from your Now Playing List. The Recording History is organized by date; use the UP/DOWN arrows to browse the shows in the list. Select the show’s title for more information about it.
Using the Season Pass manager

All Season Pass recordings and auto-recording WishList searches are listed in the Season Pass manager in order of recording priority. (Season Pass recordings are prioritized by the order in which you set them up: the first has highest priority, and so on). If more than two Season Pass shows are scheduled to record at the same time, the show with the higher priority in the Season Pass manager will record.

To change the priority of a repeating recording, from TiVo Central choose ‘Find Programs,’ then ‘Season Pass Manager.’ Use the UP/DOWN arrows to highlight a title, and press RIGHT to highlight the arrows to the right of the title, then use the UP/DOWN arrows to move the selected title up or down in the list.

Because your DVR has two tuners, recording conflicts should be minimized. Overlap protection (see below) further reduces conflicts.

Editing a repeating recording

You can also use the Season Pass manager to view and change recording options, view upcoming episodes, or cancel Season Pass recordings or auto-recording WishList searches. Highlight the show title and press SELECT to view available options.

Recording with Overlap Protection

Being able to record two programs at the same time doesn’t eliminate all possible recording conflicts. The Overlap Protection™ feature gives you additional options for dealing with recording conflicts when they occur.

If Overlap Protection is turned off, when two shows on the same tuner overlap by a few minutes (for example, one show ends at 8:33, while the next show begins at 8:30), the lower priority
Finding shows

recording is cancelled. But with Overlap Protection turned on, the DVR simply clips the lower priority recording by just enough minutes to allow both programs to record.

Overlap Protection works by determining the priority of each show scheduled to record. For repeating recordings, it uses the Season Pass manager to learn which programs have higher or lower priorities (see page 31). One-time recordings are not listed on the Season Pass manager; these individual recordings that you schedule receive the highest priority. The most recent individual recording that you requested always has the highest priority. (TiVo Suggestions always have the lowest priority.)

When scheduling new recordings, the DVR notifies you of any recording conflict and gives you options for resolving it. If Overlap Protection is on, your options include clipping the lower priority show.

Overlap Protection is a global setting, not a show-specific choice. To set your Overlap Protection preference, from TiVo Central, choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Recordings,’ then ‘Overlap Protection.’

Extending live recordings

Live events (like sporting events and awards shows) often run past their scheduled end time. When the Extend Live Recordings setting is turned on, the DVR will remind you to add extra time when you set up a recording of a live event.

Extend Live Recordings is a global setting, not a show-specific choice. To set your Extend Live Recording preference, from TiVo Central, choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Recording,’ then ‘Extend Live Recordings.’
Watching shows

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Watching shows

Moving around with the status bar

In general, watching shows works the same whether you’re watching live TV, recordings, DIRECTV on Demand programs, or Pay Per View programs. You can always press PLAY, PAUSE, FORWARD, and REWIND to display a status bar and move around in the show.

- In live TV, the status bar represents one hour, and the white tick marks are 15 minutes apart.

**Status bar for live TV**

- In recorded shows, DIRECTV on Demand, and Pay Per View, the bar shows the show’s length. The tick marks are 15 minutes apart (further apart for a longer show).

**Status bar for a two-hour recording**

- The show is two hours long.
  - The REWIND button has been pressed twice.
  - Tick marks are 15 minutes apart.
Automatically saving live TV

In live TV, the green segment of the status bar represents the part of the show automatically saved by your DVR. The DVR automatically saves up to 30 minutes of live TV, so you can rewind live TV for up to 30 minutes. Press RECORD to record the saved portion as well as the rest of the show.

Whenever you change channels, the saved portion of the old show is cleared, and DVR starts saving the show on the new channel. If you’re behind live TV and watching something you still want to see, you should avoid changing the channel. But you can swap tuners by pressing the LIVE TV/SWAP button without losing what’s been saved.

Press the CLEAR button to hide the status bar, the program guide, the channel banner, and anything else that is not part of the show.
Getting information with the channel banner

The channel banner displays the show’s title, description, ratings, and other information. It appears whenever you change the channel. To view the channel banner while watching a show, press INFO.

You can display the channel banner in three different sizes. Press the RIGHT arrow to cycle through the sizes of the channel banner. Press the LEFT arrow or CLEAR to hide it.

Icons in the large version of the channel banner are shortcuts to corresponding features. Use the UP/DOWN arrows in the large channel banner to highlight an icon, then press SELECT.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record</td>
<td>Record the show you’re watching. If a recording is in progress, the icon is bright. Select this icon to stop the recording.</td>
</tr>
<tr>
<td>Tuner Swap</td>
<td>See the channel and show title currently airing on the other tuner. To swap to the other tuner, press SELECT.</td>
</tr>
<tr>
<td>Audio</td>
<td>If this icon is bright, alternate audio tracks are present. Select the icon for options. See page 43 for more on audio settings.</td>
</tr>
<tr>
<td>Dolby Digital audio</td>
<td>If Dolby Digital audio icon is present, a Dolby Digital audio track is available. If the icon is bright, alternate digital audio tracks are also available. Select the icon for options. (The audio icon above will not be present if the Dolby Digital audio icon is present.)</td>
</tr>
<tr>
<td>Parental Controls</td>
<td>If Parental Controls are off, the lock icon appears unlocked and dim. If they are on, the icon is locked and bright. If they are temporarily off, the icon is unlocked and bright.</td>
</tr>
<tr>
<td>Closed Caption</td>
<td>Toggle closed captioning on or off.</td>
</tr>
</tbody>
</table>
Setting a show’s recording options

Recording options let you customize each recording, so you always get the results you want. You can set recording options when you first schedule a recording, or by selecting a show from the To Do list or the Season Pass® manager. To view or change recording options:

1. On the show’s information screen, highlight either ‘Record this episode’ or ‘Get a Season Pass.’ Press the RIGHT arrow to highlight ‘Options,’ and press SELECT.

2. On the Recording Options screen, use the UP/DOWN arrows to highlight an option, then the RIGHT and LEFT arrows to change the setting.

3. When you’re done, press SELECT or highlight ‘Record show with these options.’

Recording Options include:

**Keep At Most** Set the maximum number of episodes to be saved. (This option is available only for a repeating recording like a Season Pass recording.)

**Record** Skip reruns or watch them all? Choose from ‘Repeats & first run’, ‘First-run only’, or ‘All.’ (This option is available only for a repeating recording like a Season Pass recording.)

**Keep Until** Choose how long to keep a show (or each episode of a repeating recording). ‘Space Needed’ is the default setting, or choose ‘Until I Delete,’ and TiVo® won’t delete this episode to record something new.

**Start Recording** Start recording up to ten minutes before a show is scheduled to begin.

**Stop Recording** Set a recording to continue — for a few minutes or up to three hours — after it’s scheduled to end. You can change this setting when you set up the recording, or while the recording is in progress.
The last two recording options — Start Recording and Stop Recording — are known as the **Overtime Scheduler** feature. These settings are especially helpful for sports fans, but they’re also useful for award shows, live events, or if the network tends to broadcast your favorite show a little off its scheduled start time.
Customizing your video and audio

You can customize your DVR to display your shows exactly the way you like to watch them using the choices available from the Settings menu. To view Settings, from TiVo Central®, choose ‘Messages & Settings.’ The settings for Audio, Video, Displays, Channels, and Recording all affect how you find and watch shows.

Video settings

From TiVo Central, choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Video’ to customize your DVR’s video settings.

TV aspect ratio

Aspect ratio refers to the proportions of your TV screen. A standard TV screen ratio is 4:3. Widescreen TVs are 16:9. Select the type of screen your TV has.

• Some TVs automatically change their display based on the type of signal they receive: high-definition or standard. If your 4:3 TV has this feature, you probably notice that it adds bars to the top and bottom of an HD picture. If so, select ‘4:3 Smart Screen.’

• If your TV does not have this feature, you may notice that it squeezes an HD picture into the 4:3 shape. If so, select ‘4:3 Standard Screen.’ Check your TV’s manual for its capabilities.
Video output formats

TV shows are broadcast in a variety of formats, and TV equipment receives and displays video in a variety of formats. For any given show, the format in which a show is broadcast may or may not match a format that your TV is capable of displaying.

The DVR receives video signals in any of the five broadcast formats (1080p, 1080i, 720p, 480p and 480i). If you are using an HDMI cable to connect your DVR to your television, the DVR will automatically set the optimal video output format for your TV.

The Video Output Formats screen allows you to set the video output format manually. Consult your HDTV’s owner’s manual for the formats it supports, and then follow the on-screen prompts to change your settings.

You might want to experiment with all the different video formats that your TV and the DVR support. You may find that some formats are better suited to certain shows than others.
Aspect correction mode

Aspect correction is applied when the aspect ratio of the show you’re watching doesn’t match the aspect ratio of your TV. Use the ZOOM button on the TiVo remote or the Aspect Correction Mode settings screen to choose from the following options:

In **FULL** mode, the picture is stretched to fill the TV screen, which may result in some distortion. In the picture shown here, notice that black bars appear at the top and bottom of the screen, and the image look a bit squished. Since the Aspect Correction is Full, you know that the letterbox bars are included in the broadcast.

In **PANEL** mode, side bars are added to the picture to fill the screen, preserving the broadcast aspect ratio. This is useful if you’re watching a show broadcast in 4:3 on a 16:9 TV, or vice-versa. In the picture shown here, notice that the image no longer look squished, but the picture size is dramatically decreased.

In **ZOOM** mode, the picture is stretched without distortion. The edges of the picture are cropped to fit the TV screen. This mode is useful if you’re watching a show broadcast with letterbox bars or side bars. Zoom mode crops the letterbox bars out of the picture. The picture shown here looks best in Zoom mode.
Letterbox color

Choose which color the DVR should use when it adds letterbox or side bars to the picture: gray or black. Changing the color of the bars can be useful if you’re trying to determine whether bars on the screen are being added by the DVR or by the broadcaster.

Audio settings

From TiVo Central, choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Audio’ to customize audio settings.

Default audio language

Some shows are broadcast with more than one audio track, such as alternate language tracks. When alternate audio tracks are available, you’ll see a bright alternate audio icon in the channel banner: 🎧.

The Default Audio Language setting lets you choose which audio language track will be heard by default when you watch a show. (Use the Audio icon in the channel banner to switch to another audio track if available.)

Dolby Digital

If you have an A/V receiver or home theater system that supports Dolby Digital audio, use this setting to choose how the DVR will record and output digital audio. Check your A/V receiver or home theater system manual for its capabilities.

If a show is broadcast with a Dolby Digital audio track, you’ll see a dim Dolby Digital icon in the channel banner: 🎧. If the icon is bright, alternate digital audio tracks are also available. Select the bright icon for options.
Watching shows

Sound effects volume

Change the volume of or turn off the DVR’s sound effects (the tones played when you press buttons on the remote control). The default is Medium.
Parental Controls

Your DVR helps you make sure your family has access to only those shows you want them to watch. Use Parental Controls to set limits on movie and television ratings, block specific content, lock particular channels, and set a limit on the amount that may be spent on a Pay Per View or DIRECTV on Demand program.

Using Parental Controls

From TiVo Central, choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Parental Controls.’ (Or, select the padlock icon from the large channel banner.)

The padlock icon in the channel banner shows the current state of Parental Controls.

- **Off** No password or controls are set. The icon is dim and unlocked.
- **On** Password and controls are set. The icon is bright and locked.
- **Temporarily Off** Controls are set but turned off. The icon is bright and unlocked.

Changing Parental Controls settings

Once Parental Controls are on, you must enter your Parental Controls password to change any Parental Controls settings.

**Turn on Parental Controls** Use the number buttons on the remote control to enter a four-digit password, then enter the same password again for confirmation.

**Turn off Parental Controls** Enter the password, and press SELECT. When Parental Controls are off, the password is deleted and anyone can view any shows or watch any channels.
Watching shows

**Temporarily turn off Parental Controls** Either enter the password to watch a show or channel, or select ‘Temporarily turn off Parental Controls’ from the Parental Controls screen. When Parental Controls are temporarily turned off, any show or channel can be viewed, but the password is still required to change Parental Controls settings.

**Auto Re-lock** When Parental Controls are temporarily turned off, they re-lock automatically after four hours of no remote control activity. Parental Controls won’t re-lock in the middle of a show. Use this setting to disable Auto Re-lock.

**Setting rating for TV and movies**

Movies originally meant for release to theaters have a different rating system from shows made for TV. Use rating limits to set rules for both rating systems, as well as for specific types of TV content. Select the rating type to change it.

**TV rating limit** Ratings shaded in green are not locked; ratings in red are locked. Use the UP/DOWN arrows to adjust which ratings are locked.

**Movie rating limit** Ratings shaded in green are not locked; ratings in red are locked. Use the UP/DOWN arrows to adjust which ratings are locked.

**Block by TV content** Types of content marked by broadcasters as able to be blocked are listed. Select each type of content you want to block, then use the UP/DOWN arrows to adjust which ratings are blocked (shaded in red). Ratings in gray do not apply to that type of content. For example, a TV-Y show would not have V-Violence content so there is nothing to block.

**Block Unrated Programs** Some movies and TV shows are unrated. Use this setting to block all unrated movies or TV shows.

**Manage Other Ratings** Additional regional ratings may be available.
Blocking channels
You can block access to any channel in the channel list. Press SELECT to lock or unlock a channel. If someone in your household tries to watch a blocked channel, the parental control password must be entered to continue.

Setting a spending limit
Set the maximum amount that may be spent on a single Pay Per View or DIRECTV on Demand program. If someone in your household tries to purchase a Pay Per View event that costs more than the spending limit, the parental control password must be entered to continue.
Watching shows
More than just TV

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Finding DIRECTV on Demand Shows

DIRECTV on Demand provides access to thousands of movie and TV titles that you can download and watch anytime you wish. The majority are free, but there is also a full selection of the best Pay Per View movies. This service is available to all DVR subscribers who connect their TiVo HD DVR from DIRECTV to a broadband Internet connection via the Ethernet connector on the back of the unit.

Note: To enjoy the DIRECTV on Demand service, you need your DVR connected to the Internet, TiVo service and any other applicable monthly Advanced Receiver fees, DIRECTV CINEMA Connection Kit, broadband Internet service with a connection speed of 750 Kbps or higher (DSL or cable), a network router with an available Ethernet port, a land-based phone line connection, and an available wall outlet.

To record DIRECTV on Demand shows:

1. Press the TiVo® button on your remote control to go to TiVo Central®. Then select ‘DIRECTV on Demand.’
2. Select one of the following:
   - **DIRECTV on Demand Home**: View all On Demand titles (including TV, movies, music, cartoons, and more).
   - **DIRECTV CINEMA**: View all the movie titles available on DIRECTV on Demand.
   - **DIRECTV Showcase On Demand**: Learn more about all that DIRECTV has to offer.
3. On the left side of the screen, select a category, like “Top Picks” or “Kids & Family.”
4. Use the RIGHT arrow to move to the right side of the screen, and then select a subcategory, if available.

5. SELECT the title you want to download. Titles may appear in a list or as “posters,” depending on the category and subcategory you choose.

6. On the information screen, select ‘Download this program.’ The show is placed in the download queue.

7. To watch your show, even if it’s still downloading, go to your Now Playing List. Select the title, and then select ‘Buy & watch now.’

**Note:** HD shows take longer to download than SD shows.

### Exploring DIRECTV on Demand channels

Many DIRECTV program providers have home pages for their own Video on Demand content. Just add a 1 in front the of the usual DIRECTV channel number to find them. For example, if you usually watch a particular network on channel 229, that network’s On Demand channel would be 1229.

Check out your favorite programmer’s On Demand home page to get special programs, see previews of exciting new shows, or catch episodes you may have missed.

To explore Video On Demand channels:

1. Press the TiVo button on your remote control to go to TiVo Central. Then select ‘DIRECTV on Demand.’

2. Choose “DIRECTV on Demand Home.”

3. In the left column, select ‘Browse Channels.’
4. Select a show title from the left column, and then select an episode title from the right side of the screen.

5. Choose “Download this program.” The show is placed in the download queue.

Checking the download queue

You can see what On Demand shows you have scheduled to download by displaying the On Demand Download Manager. You can either:

- From any On Demand screen, press the YELLOW button (Queue) to see the entire queue of shows you have waiting to download. The top title is currently downloading and the ones below it are next in line.
- From TiVo Central, choose ‘Find Programs’ > ‘On Demand Download Manger.’

Pausing or canceling a download

If your home network gets congested, you can always pause your downloads by going to the On Demand Download Manager and pressing the ENTER button on your remote control. Downloads can be paused for 30 minutes, 1 hour, 2 hours, or indefinitely. If you want to resume downloads, just press the ENTER button again.

To cancel a download, highlight a show title, and press the CLEAR button to delete it from the queue.

To get to the On Demand Download Manager, press the TiVo button to get to TiVo Central, then choose ‘Find Programs’ > ‘On Demand Download Manger.’
Watching Your Downloaded Shows

Once a show has started downloading, it appears in your Now Playing List just like the rest of your recorded shows. The download rate depends completely on the speed of your broadband connection. If your connection fast enough, you can start watching your show immediately while it is downloading. If the connection is slow or your home network is congested, you can start watching the show, but might hit a pause while the DVR waits for the broadband connection to download more of the show.
Interactive Channels

Interactive channels are unique because in addition to video and audio, they let you interact with what you see on the screen. When accessing these channels you will have to wait a few seconds for the software to download.

The DIRECTV Active® channel

The DIRECTV Active channel is the home of DIRECTV Interactive Service. Press the ACTIVE button on your remote to get the latest weather, horoscopes, lottery results and more.

Finding more interactive channels

The NewsMix and SportsMix channels let you see up to eight of the hottest channels on one screen. If you want to see one of the channels in full-screen, simply highlight it, and press SELECT. Interactive channels are sprinkled throughout the guide.

Note: Access to channels depends on your programming package.

GSN Game Lounge

The GSN Game Lounge service contains memory and skill games that you can play on-screen using only your remote. There are free as well as subscription-only games available. If you are good enough, you might even see your name on the leader board.

To get to the GSN Game Lounge, go to channel 110 while watching live TV or viewing the program guide.
Exiting an interactive channel

When you want to exit an interactive channel, simply press the TiVo button, the Live TV button, or the GUIDE on your remote control, or just type in a new channel number while viewing the interactive channel.

Look for more interactive content

Interactive content like scores, statistics, and other information are also provided along with some of our special sports and entertainment channels. Look for an on-screen popup that lets you know when interactive content is available, and follow the on-screen instructions to use the interactive features.
Music, Photos, & Showcases

When you connect your TiVo HD DVR from DIRECTV to your home network, you can watch slideshows of your digital photos on your big screen TV, or listen to playlists of your favorite music files on your A/V system.

Note: These features require a home network connection and a PC with a media server. Visit directv.com/mediashare for details.

Streaming music

To stream music from your computer, you'll first need to “publish” your music using the free TiVo Desktop software application. You’ll need to install this application on your PC. You can download it from tivo.com

Publishing your music means making MP3 files available over your home network to your DVR. Publishing does not copy music files to your DVR, so published music does not use any of your DVR’s recording space.

Note: TiVo Desktop works with music in the MP3 format, and with playlists in the following formats used by common music players: M3U, PLS, ASX, and B4S.

Publishing music from your PC

1. Download and install the free TiVo Desktop application on your PC.
2. On your PC, open TiVo Desktop and select the Publish Media icon.
3. Click the ‘Music’ tab, then click ‘Add Music.’
4. Navigate to the folder containing the playlist or folder of music you want to publish. When you select a folder, any MP3 files within that folder are listed in the right frame of the Add Music window.

5. To publish a whole folder of music, select the folder and click ‘Add.’ To publish individual MP3 files, select them from the list on the right, then click ‘Add.’

Publishing music from your Mac

1. Download and install the free TiVo Desktop application on your Mac.

2. From the Apple menu, click ‘System Preferences.’

3. Under ‘Other,’ click ‘TiVo Desktop.’

4. Click ‘Start’ to begin publishing content.

5. Click the ‘Music’ tab, then click ‘Publish My Music.’
   • To publish all of your iTunes library, select ‘Publish My Entire iTunes Library.’
   • To publish only some of your playlists, select ‘Publish Only These Playlists,’ and then select each playlist you want to publish.

Playing music on your DVR

1. From TiVo Central, select ‘Music, Photos, & Showcases.’

2. Select your music on your computer. (Your selection will vary depending on how your computer is named.)

3. You will see any playlists or folders that you have published. Highlight one and press PLAY. In a few seconds, music starts playing. After the first song ends, the second song in the playlist or folder begins.

To unpublish music files, go to your computer and select the files you want to unpublish. Then click the Remove button. These files will no longer be accessible from your DVR, but they will remain on your computer.
Viewing photos

To view photos on your DVR, you'll first need to “publish” the photos you want to see. Publishing your photos means making photo files available over your home network to your DVR. Publishing does not copy photo files to your DVR, so published photos do not use any of your DVR’s recording space.

Note: TiVo Desktop works with photos in the following formats: BMP, TIFF, DIB, GIF, JPG, and PNG.

Publishing photos with your PC

1. Download and install the free TiVo Desktop application on your PC.
2. Open TiVo Desktop and select the ‘Share Music, Photos, & Video’ icon.
3. Click the ‘Photos’ tab, then click ‘Add Photos.’
4. Navigate to the folder containing the photos you want to publish. When you select a folder, any photo files within that folder are listed in the right frame of the Add Photos window.
5. To publish a whole folder of photos, select the folder and click ‘Add.’ To publish individual photo files, select them from the list on the right, then click ‘Add.’

Publishing photos with your Mac

1. Download and install the free TiVo Desktop application on your Mac.
2. Open TiVo Desktop and select the ‘Share Music, Photos, & Video’ icon.
3. From the Apple menu, click ‘System Preferences.’
4. Under ‘Other,’ click ‘TiVo Desktop.’
5. Click ‘Start’ to begin publishing content.
6. Click the ‘Photos’ tab, then click ‘Publish My Photos.’

   • To publish all of your iPhotos albums and photos, select ‘Publish My Entire iPhoto Library.’

   • To publish only some of your photo albums, select ‘Publish Only These Albums,’ and then select each album you want to publish.

**Viewing photos on your DVR**

1. From TiVo Central, select ‘Music, Photos, & Showcases.’
2. Select your photos on your computer. (Your selection will vary depending on how your computer is named.)
3. You will see any folders you have published. Do one of the following:

   • To view a slideshow of photos, highlight the folder containing the photos you want to see, and press PLAY.

   • To view individual photos within a folder, highlight the folder containing the photos you want to see, and press SELECT. Navigate to the photo you want to view and press SELECT again. You'll see options for viewing the photo, including rotating options and the option to view a slideshow of all photos in this folder. (You can also play a slideshow by highlighting any photo and pressing PLAY instead of SELECT).
Exploring Showcases

Showcases let you see exclusive video like the inside scoop on hit movies, special events, and popular series, and demos of the latest gadgets and services.

Showcases are updated all the time. To check out what Showcases are available today:

1. From TiVo Central, select ‘Music, Photos, & Showcases.’
2. Choose ‘Showcases.’
3. Click on the Showcase that interests you, and prepare to be dazzled!

Showcases may contain video clips, including exclusive short films, promotional spots, and movie trailers. Viewable clips are marked by the clapboard icon.
Settings

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Channel settings

From the TiVo Central® screen, select Messages & Settings, then Settings, then Channels.

Channel list

This is the list of available channels. The DVR uses this list to determine which channels to display in the guide and which channels are available for recording shows. Features such as Search by Title, and WishList® searches look for shows only on channels selected on this channel list.

Customizing your channel list

• **Channels You Receive.** The Channel List screen displays the complete list of channels available. You may not actually receive or subscribe to some of these channels, or you may not wish to display them in the guide, or search for shows on them.

  Create a customized list of channels by pressing SELECT on each channel you want. A yellow check mark appears next to each channel you select. Press SELECT again to remove the check mark. The list of selected channels is your Channels You Receive list.

• **Favorite Channels.** Use Favorite Channels for channels you watch frequently. Include only a few channels in this list, so that you can quickly see what’s coming up on them using the guide. To indicate your Favorite Channels, highlight each and press THUMBS UP.
Channel Scan

If you have an off-air tuner connected to your DVR, channel scanning identifies all the channels that the antenna can receive. Signals received via antenna are subject to weather conditions and other environmental factors, so the availability of certain channels may vary.

Any scanned channel for which the DVR has received no program guide information is marked with an asterisk ( * ) in the channel list.

Duplicate HD/SD Channels

This option allows you to hide all standard definition (SD) channels that have high definition duplicates. This helps to keep your channel list more manageable and makes it easier to view and record HD programming.

Note: Hiding SD channels will disable any Season Pass® recordings for those channels.
Display settings

From TiVo Central, choose ‘Messages & Settings,’ then ‘Settings,’ then ‘Displays’ to customize the display of the channel banner, closed captioning, and the lights on the DVR.

**Caller ID** If this setting is enabled, your DVR is connected to a phone line, and you have Caller ID as part of your home phone service, you’ll see a Caller ID message on your TV screen if a call comes in while you are watching live TV.

**Channel Banner** Normally, when you change channels, the channel banner is displayed for a few seconds. If you want it to disappear quickly, select ‘Clear Banner Quickly.’

**Closed Captioning** Change the way the DVR displays closed captioning text. To turn closed captioning on or off while watching a show, press INFO to view the channel banner, and select the closed captioning icon: \( \text{CC} \).

**Displays on the Front of the DVR** You can change the display of the lights on the DVR’s front panel. The lights indicate when the DVR is receiving power and recording shows, as well as the selected video output format. You can choose to change the brightness of the lights.
Network and phone settings

The DVR makes regular connections to DIRECTV. The Network & Phone screen includes details about the last successful connection.

From TiVo Central, select ‘Messages & Settings,’ then ‘Settings,’ then ‘Network & Phone.’ Available options include:

Connect to the DVR Service now Normally, you don’t need to select this option — the DVR connects to DIRECTV automatically. After you start the connection, the status of the connection is displayed. You can watch live TV, set up recordings, and search for shows while the connection is in progress.

Change network settings See “Network settings” below.

Change phone settings See “Phone settings” below.

View network status Select to review information about your network connection.

View network diagnostics Select to test your connection, see a history of your video downloads, and run other diagnostic tests related to your network connection.

Network settings

To get the most out of your DVR, you will want to connect it to your home network. When your DVR is broadband connected, you have access to special DIRECTV features, including DIRECTV on Demand and music and photo sharing, as well as to enhanced TiVo search options.

If you have not yet connected your DVR to your home network, see “Network connection” on page 76.
Most of the time, you do not need to configure these settings, as they are usually configured automatically when you first set up your DVR. However, if necessary, you can use this page to configure how the DVR receives an IP address, or you can assign a static IP address and other network information manually. Follow the on-screen instructions to configure your wired network.

Phone settings

If you have not yet connected your DVR to your phone connection, see “Phone connection” on page 78.

The following settings are available:

**Dial Prefix** Select this if you normally dial a prefix before making a phone call (for example, if you need to dial “9” to get an outside line). Use the number keys on the remote control to enter the prefix. Press the PAUSE button after you have entered the prefix. This will insert a comma, which creates a two second pause after the prefix is dialed.

**Call Waiting Prefix** Choose this to disable call waiting while connecting to DIRECTV. Without a call waiting prefix, the DVR might drop its connection and allow incoming calls to ring through, depending on your phone system. The DVR tries connecting again later.

The most common code that phone companies use to disable call waiting is *70, (star-seven-zero-comma.) Check with your phone company to find out how to disable call waiting in your area. Press CLEAR to enter a star (*). Press the PAUSE button after you have entered the prefix to insert a comma, which creates a two second pause after the prefix is dialed.

**Tone/Pulse Dialing** If your phone system uses pulse dialing rather than tone dialing, change the setting to pulse here. (Most phone systems are tone.)
**Availability Detection** When Availability Detection is on, the DVR checks whether the phone line is in use, which allows it to avoid disrupting a call in progress.

This setting is off by default. With Availability Detection turned off, if you have another modem call in progress (on your computer or other device), that call might be disrupted if the DVR attempts to call DIRECTV. If you have a standard dial tone, and Availability Detection is off, make sure Dial Tone Detection is on (see below).

If you are experiencing “Failed, Line unavailable” errors, or if the DVR is not making phone connections, you might have a low-voltage phone system that the DVR cannot detect. In this case, it’s best to have Availability Detection off.

**Dial Tone Detection** This setting is on by default. If you leave it on, the DVR checks for a dial tone before it starts dialing. However, if you have a non-standard dial tone, or a stuttering dial tone (as some voice messaging systems have), the DVR is unable to detect the dial tone and does not make its call.

With Availability Detection and Dial Tone Detection both turned off, if you happen to be talking on the phone when the DVR tries to connect, you hear it dial.
Remote control settings

Some buttons on the TiVo® remote are programmable. You have options to control power, volume, and mute on your TV; volume and mute on your A/V receiver (stereo system); and input selection on your TV — all from your TiVo remote!

To program your remote, from TiVo Central, select ‘Messages & Settings,’ then ‘Settings,’ then ‘Remote & Devices,’ then ‘Remote Control Setup.’ Follow the on-screen instructions.

To reset all the programmable buttons:

1. Point the TiVo remote away from your DVR.
2. Press and hold the TiVo remote’s TV PWR and TiVo buttons simultaneously until the light on the remote lights, and remains lit when you release the buttons.
3. Press THUMBS DOWN three times, then press ENTER.

Advance and replay buttons

When you press the ADVANCE button while watching a recorded show, you skip to the end of the show. Press it again, and you skip to the beginning. If you press ADVANCE while fast forwarding, you skip to the next tick mark. When you press the INSTANT REPLAY button at any time, you go back 8 seconds.

Use this setting to customize the behavior of the ADVANCE and INSTANT REPLAY buttons.
IR/RF & multiple DVRs setup

Use this setting to choose how you want to control this DVR with your remote control. Your DVR is capable of receiving either infra-red (IR) or radio frequency (RF) remote control signals.

- **IR mode**  The DVR must be in line of sight with the remote control to receive signals.
- **RF mode**  The DVR can receive remote control signals even if there are obstructions, like walls, in the way.

Also use this setting to assign an ID for your DVR. This is helpful if you have multiple boxes and want to control all of them separately; you should set each to a different ID.
Satellite & off-air antenna settings

The options on this screen help you set up your satellite, test your transponder’s reception, configure date and time information, and replace your access card.

**Test Satellite Signal Strength** Use this option to ensure that your satellite dish is pointed properly.

**Satellite Setup** This option allows you change your satellite setup. You will repeat portions of Guided Setup to complete the procedure.

**Time Zone/ Daylight Savings Time** Set your time zone.

**Replace access card** Use this option only if you need to replace your existing access card with a new one. Once you begin the process on this page, your old access card will no longer be valid.
Messages

From time to time, you may receive messages alerting you to new features, important software changes, special promotions, or other news items.

When you receive a new message, the TiVo Central screen displays the option ‘Read New Messages & Settings.’ Select this to read new messages.

You can also review both read and unread messages at any time:

1. From TiVo Central, select ‘Messages & Settings.’

2. Select ‘Messages.’ A list of all of your messages appears. Messages you have not yet read are marked with an envelope icon: 💌.

3. Use the UP/DOWN arrows to highlight a message, then press SELECT to read it. Use CHANNEL UP/DOWN to page through a message if it doesn’t fit on the screen.
Account & system information

The Account & System Information screen provides information about your DVR and your DIRECTV service account. From TiVo Central, select ‘Messages & Settings,’ then ‘Account & System Information.’

System Information You’ll need some of the information provided here if you contact Customer Support. This screen contains your access card number, receiver ID, software version, storage capacity, and information about recent connections to DIRECTV. Use the CHANNEL UP/DOWN button to see the rest of the screen.

Copyright & Trademarks This screen contains copyright, trademark, and other information related to DIRECTV.
Restart or reset system

From TiVo Central, select ‘Messages & Settings,’ then ‘Restart or Reset System.’ Options on this screen allow you to restart your DVR, erase information, or restore original factory settings.

**Restart the DVR** Shuts down the DVR, and starts it up again. This does not affect recorded shows, Season Pass recordings, WishList searches, or TiVo Suggestions. You might need to restart your DVR as a routine troubleshooting step.

**Repeat Guided Setup** Repeating Guided Setup resets your channel lists. This does not affect recorded shows, Season Pass recordings, WishList Searches, or TiVo Suggestions.

**Clear Thumb Ratings and Suggestions** Removes all Thumbs Up and Thumbs Down ratings, and deletes the list of upcoming TiVo Suggestions. This does not delete TiVo Suggestions that have already been recorded.

**Clear program information & To Do List** Clears all program information, cancels all Season Pass recordings and everything in the To Do List, and removes all Thumbs Up and Thumbs Down ratings. This does not delete shows in the Now Playing List. Completing this process could take over an hour.

**Clear & delete everything** This option restores the DVR’s original factory settings. It clears all Season Pass recordings, WishList Searches, Thumbs Up and Thumbs Down ratings, TiVo Suggestions, Now Playing List recordings, program information, To Do List and setup information, including channel lists and Parental Controls. Completing this process may take over an hour.

Operations like Clear & Delete Everything may take over an hour. During this time, it is recommended that you turn off your TV to avoid “burn-in” of static images on sensitive video displays.
Standby

You can put your DVR in Standby mode by selecting ‘Standby’ from Messages & Settings. To return to normal mode from Standby, press the TiVo button or the LIVE TV/SWAP button on the remote or the FORMAT button on the front of the DVR.

When the DVR is in Standby:

- Your TV shows a black screen and the lights on the front of the DVR go out.
- Shows that are being recorded or are scheduled to record are still recorded.
- The DVR still connects to DIRECTV.
- If you temporarily turned off Parental Controls, Standby mode re-enables them.
- If live TV is paused when Standby is selected, the DVR remains paused for up to 30 minutes.
- If the program guide was set to display a category filter, filtering is turned off.
Installation and Connections

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Professional installation

For the best user experience and system performance, we highly recommend that your system be professionally installed. Call 1-800-531-5000 to schedule an installation.

Connections (network and phone)

Network connection

To get the most out of your TiVo HD DVR from DIRECTV, you will want to connect it to your home network. When your DVR is broadband connected, you can order Pay Per View programming without calling DIRECTV, and you have access to special DIRECTV features, including DIRECTV on Demand and music and photos sharing.

If your installer did not configure a network connection during installation, don’t worry. Connecting your DVR to your home network is quick and easy. Just follow the steps below.

If your DVR is already connected to your home network and you want to change your network settings, see “Network and phone settings” on page 65.

Connection methods

There are two ways to connect your DVR to your home network:

• Wired connection
• Wireless connection
Wired connection

A wired connection is a direct connection between your router and your DVR using an Ethernet cable.

1. Plug one end of the Ethernet cable into either Ethernet port located on the back of your DVR.

2. Connect the other end of the Ethernet cable to your Ethernet jack in the wall or directly in to the free port of your wired router.

3. Verify that you are connected. Press the TiVo® button on your remote control, and then select ‘Messages & Settings’ > ‘Settings’ > ‘Network & Phone.’

Wireless connection

A wireless connection uses your own wireless router and a wireless transceiver to send data from your DSL/cable router to the DVR. Please be advised that DIRECTV does not recommend using a wireless device, because it might not provide the best experience. A wired connection is preferred to ensure the best digital entertainment experience.

However if you prefer to use Wireless, you must follow the manufacturer’s directions on configuring your Wireless device before connecting it to your DVR. These instructions help you make the right connections to your DVR.

Make sure that you have a wireless transceiver that uses an Ethernet port to connect to a media device. USB devices are not supported by the DVR. You will also need a wireless router (in place of a regular router).

1. Follow the instructions for your wireless device to initialize it for your home network before continuing. The device must be fully initialized before it is connected to your DVR.
2. Connect one end of an Ethernet cable to the LAN port on the back of the wireless transceiver.

3. Connect the other end of the Ethernet cable to the Ethernet jack on the back of the DVR.

4. Verify that you are connected. Press the TiVo button on your remote control, and then select ‘Messages & Settings’ > ‘Settings’ > ‘Network & Phone.’

Phone connection

If you are unable to connect your DVR to a network connection, you can also connect using your phone line. Connecting your DVR to a land-based telephone line saves you money because it allows you to purchase Pay Per View movies and special events without calling DIRECTV to order. It can be used for sports subscriptions and can also be used to enhance the interactive features available on DIRECTV’s interactive channels. The DVR uses a toll-free number once a month for a few minutes’ duration and is designed not to interfere with your regular phone service. You will need an RJ11-type modulator jack (the most common type of phone jack). If you disconnect the phone line, the DVR will not allow you to purchase Pay Per View programs, and some features of the interactive channels will be limited.

Note: Do not connect your DVR to a digital PBX phone system — doing so could permanently damage your equipment and void your warranty.

If your DVR is already connected to your phone line and you want to change your settings, see “Network and phone settings” on page 65.
Connections for auxiliary equipment

The following instructions apply if you are upgrading to a new TV or adding a surround sound system, DVD player/burner or VCR some time after your professional installation.

Due to restrictions imposed by copyright holders, certain programming could include content protection measures that might restrict viewing or recording with certain consumer electronics equipment attached to the DVR. Please contact the manufacturer of such equipment for additional information.

Note: Not all cables come with your DVR; you might need to purchase additional cables depending on your setup.

All of the video and audio outputs on your DVR offer good quality. When adding new equipment, try to use the DVR video and audio output connectors in the following order to achieve the highest picture and sound quality throughout your audio/video system.

Video connections

The following video connections are available:

- HDMI (High-Definition Multimedia Interface) provides the best digital video and digital audio in one connector.
- Component Video Output (YPbPr) provides high-quality video, but does not provide audio. You will need to connect audio separately using the digital audio or RCA audio connectors.
- S-video provides good video, but does not provide audio. You will need to connect audio separately using the digital audio or RCA audio connectors.

To obtain the best picture quality, make sure the DVR is connected directly to the TV.
Installation and Connections

- RCA jacks provide good video and usually come bundled with three cables for one video and two audio channels.

Audio connections

The following audio connections are available:

- HDMI (High-Definition Multimedia Interface) provides the best digital video and audio in one connector.
- Digital Audio Optical provides excellent quality digital audio and is often used on newer surround sound and DVD equipment.
- Digital Audio Coax provides high quality digital audio and is also found on newer surround sound and DVD equipment.
- RCA jacks provide good audio quality and are found on older auxiliary equipment.

Connection diagrams

Because there are so many makes and models of TVs and auxiliary equipment, it is impossible to fully describe all the possible connections between your DVR and that equipment. Please refer to your TV and auxiliary equipment manuals for all of the connection options specific to each make and model. The following images show examples of how your DVR may be connected. In these examples, we try to use the best video connection that is supported by the TV, the best audio that is supported by the surround sound, and the next best video/audio connections on the DVD player/burner or VCR.
Example 1: TV with HDMI connector

Here is an example using a TV that has an HDMI connector as the best video/audio input and a surround sound system that has a digital audio optical connector as the best audio input:
Example 2: TV with component video connectors

Here is an example using a TV that has component video connectors as the best video input with RCA audio connectors as the best audio input and a surround sound system that has a digital audio coax connector as the best audio input:
Example 3: TV with S-video connector (standard definition)

Here is an example of a TV that has an S-video connector as the best video input and RCA audio connectors as the best audio input and a surround sound system with a digital audio optical connector as the best audio input:
Example 4: TV with RCA connectors (standard definition)

Here is an example of a TV that has RCA connectors as the best audio/video inputs and a surround sound system with a digital audio coax connector as the best audio input:
Guided Setup and activation

If your DVR was not professionally installed, you need to follow the Guided Setup screens when you first start the DVR.

1. Press PWR. The DVR will turn on. (Make sure your TV is also turned on!)

2. A Welcome screen appears.

3. Simply follow the on-screen directions to complete setup. If you’ve installed your satellite dish and system yourself, you’ll be guided through various functions for optimizing your signal and setup — including positioning your dish and a system test. After these setup procedures are complete, you see a message on-screen that says, ‘Receiving Satellite Info,’ as the DVR gathers information from the satellite for the on-screen program guide.

4. During Guided Setup, you will be asked to activate your DVR. You’ll need the following:
   - Service address, social security number, and a valid major credit card.
   - Access card and DVR ID numbers.

When you’re ready, just call 1-800-531-5000, and pick the programming package that’s right for you. A monthly TiVo service fee and other applicable monthly Advanced Receiver fees will apply.
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Resetting/reauthorizing your DVR

Many problems can be corrected by performing a simple reset of the DVR. If you experience frozen audio or video, blank screen, or the system won’t respond to front panel button or remote control, try one of these:

• Press the red RESET button behind the access card panel door on the front of the DVR, then wait for program guide information to be acquired.

• If the problems persist, try unplugging the power cord of the DVR for 15 seconds, then plug it in again.

• Try reauthorizing your DVR: on a computer, go to directv.com/reauthorize and follow the on-screen instructions.

Software updates

You may occasionally receive software updates to improve performance and upgrade features and functions. These updates occur automatically, usually at times when the DVR is not being used or recording shows. If your DVR is being used when an update is sent, you will see an on-screen message and you might experience a disruption in reception for a few minutes. Your reception should return to normal after the update is complete. Your DVR must be plugged in to AC power to receive any updates.

On-screen error messages

There might be times when you see an on-screen error message. The top line of the message gives a brief description of the error, while the second line supplies an error code in parentheses. To resolve the error, call Customer Service at 1-800-531-5000 and mention the error code number when prompted.

Power

My DVR will not turn on

• Press POWER button on the front panel of the DVR.

• Verify that the power cord is plugged into the DVR and the wall outlet.

• Check the outlet or power strip to make sure it is “live” by plugging in something else.

• Replace batteries in remote control.

• Be sure remote is pointed at remote sensor on the DVR, and sensor is not blocked.

• Try plugging the DVR into a different wall outlet.

• Unplug the DVR for five minutes, and then plug it in again.
My DVR turns off unexpectedly

- Excessive heat may have caused the DVR to go into a standby state. Ensure that your DVR has plenty of ventilation and that nothing is on top of the DVR.
- Electronic protection circuit may have been activated due to a power surge. Wait 30 seconds for internal circuits to reset, then turn the DVR back on.
- You may have blown a circuit breaker or be experiencing a power outage. Check the circuit breakers in your home. Consult an electrician if the problem is frequent or severe, especially if other household appliances or electronics are affected.
- Parental Controls rating limits may have been activated on your DVR. If Parental Controls are on, turn your DVR back on, and enter your parental controls password at the prompt.

My DVR turns on or changes channels unexpectedly

- A scheduled recording might be about to begin, so the DVR is changing channels to record the show as requested. Check your To Do List to see if there are other scheduled recordings (press the TiVo® button, then select ‘Find Programs’ > ‘To Do List’).
- Your TV’s timer might have been activated. Check your TV owner’s manual to turn off the TV’s timer.

Channels

Channels are missing from the guide
A channel is in the guide but I can’t tune to it.

- The channels might be excluded from the Channel List. To update your channel list, see “Channel list” on page 62. You can also try enter the channel number manually.
- Your satellite dish might be incorrectly configured. To check the dish type set in your DVR’s preferences, go to TiVo Central, then select ‘Messages & Settings’ > ‘Settings’ > ‘Satellite & Off-Air Antenna’ > ‘Satellite Setup’.
- Your DVR information might need to be refreshed. To refresh your DVR information, go to directv.com, click on Customer Service > Troubleshooting > On-Screen Messages > Please Call Customer Service, ext. 721. You will need to be logged into your account on directv.com to complete this process.

Recordings

A show I tried to record does not show up in the Now Playing List.

- Someone else might have prevented the recording or erased the show after it recorded. To see if the show was recorded then
deleted, press the TiVo button, then select ‘Find Programs’ > ‘To Do List’ > ‘Recording History.’ You will see a list of recent programs with their recording status information.

- The recording might have been cancelled due to a conflict with another show with higher priority. If the recording was cancelled due to a scheduling conflict, record the show at a different time, or adjust the priorities in the Season Pass Manager. See “Using the Season Pass manager” on page 31.

- The show might have been blocked by Parental Controls. Check the Parental Controls on your DVR. Adjust the content ratings, if necessary.

I wanted to record a show, but I got an error message saying it conflicted with another scheduled record. What do I do?

- If you tried to record three programs at once, or watch a live TV show with two others recording, you need to decide which recording to cancel.

- To reduce recording conflicts between shows whose recording times overlap just a couple of minutes, make sure Overlap Protection is turned on. See “Recording with Overlap Protection” on page 31.

I recorded a show, and the recording got cut off just before the end, so I missed the last bit of the show.

- The show you were trying to record might have started or ended early. Try setting the end time of the recording in the Record Options so the recording ends one or two minutes later (or more, if necessary). See “Setting a show’s recording options” on page 38.

- If you were trying to record a live event, the event might have run over its allotted time. Make sure that the ‘Extend Live Recordings’ option is turned on. When this option is turned on, you’ll be prompted to extend the recording time for live events. See “Extending live recordings” on page 32.

- You might have had a recording conflict with a higher priority show. Use the Season Pass Manager to raise or lower the priorities of recordings. See “Using the Season Pass manager” on page 31.

I’ve set up a Season Pass® recording, but now I get a bunch of reruns and multiple copies of the same show.

- When you set up a Season Pass, make sure you select “First-run only” as the ‘Show type.’

- If the program guide does not provide enough specific information about a show, the TiVo service may not be able to
distinguish between a new showing or a repeat showing. In this case, the service will record the show. This can sometimes result in multiple copies of the same program.

Now Playing List

I haven't recorded enough shows to fill my DVR, but when I try to schedule more shows, the DVR says there isn't room.

- The TiVo service includes smart scheduling features that track not only how much space you currently have on your DVR, but also how much space will be needed in the near future to record all the shows you have scheduled. If your DVR will be full in the near future, the TiVo service informs you and suggests options—such as allowing some shows to be deleted early—that will allow you to schedule additional recordings. With the TiVo service, you always have the final say over what gets recorded and how long it's kept.

- The amount of recording space the DVR needs varies from channel to channel and from show to show. In general, the more action you see on your screen, such as in fast-moving sports or action movies, the more recording space is required. High-definition shows take up much more space than standard-definition shows.

A show I recorded was displayed in the Now Playing List screen, but got deleted before I could watch it.

- The DVR might have deleted older recordings to make room for newer ones. Delete some of the content on your DVR to make room for new recordings.

- Change the recording options for recordings you definitely want to keep to “Keep Until I Delete.” See “Setting a show’s recording options” on page 38 for more information.

- When you schedule a recording or set up a Season Pass recording, consider changing the “Keep Until” option to “Until I delete.” See “Setting a show’s recording options” on page 38 for more information.

- If you recorded a Pay Per View program, but did not watch it, the time that you are allowed to purchase or watch it might have expired. To avoid this in the future, check your Pay Per View recordings in the Now Playing List for expiration dates.

How can I fit more shows in the Now Playing List?

- To make space, delete some shows. To delete a show, highlight the title, and press CLEAR.

- Reduce the number of recordings that are marked ‘Keep Until I Delete.’

- Lower the default recording quality for analog broadcast shows and Season Pass recordings.
Troubleshooting

• Set up Season Pass recordings with the Recording Option ‘First-run only’ to record only new episodes.

Audio and video

How do I get rid of the bars at the top & bottom or sides of the picture?

Letterbox bars (at the top & bottom) and side bars might be added to a show by the broadcaster, by the DVR, or by your TV. In some cases, it may be difficult to determine the source of the bars in order to determine how to eliminate them.

• Set the DVR’s Letterbox Color to gray. From ‘Messages & Settings,’ select ‘Settings,’ then ‘Video,’ then ‘Letterbox Color.’ Since most broadcasters add black bars, making the DVR bars gray will help you determine the source of the bars.

• Make sure your TV Aspect Ratio is set correctly. From ‘Messages & Settings,’ select ‘Settings,’ then ‘Video,’ then ‘TV Aspect Ratio.’

• Use the ZOOM button on the TiVo remote to find an Aspect Correction mode that minimizes the bars.

• Check your TV’s owner’s manual for information about how it may be adding letterbox or side bars to the picture.

The audio and video are out of synchronization.

• The audio and video might re-synchronize if you change channels.

• You might be able to re-synchronize audio and video by pressing the INSTANT REPLAY button on the remote control.

• Press the TiVo button to go to the TiVo Central screen, then press the LIVE TV/SWAP button to return to live TV.

• Verify that all your audio and video cable connections are secure. Make sure cables are connected from the OUT jack of one device to the IN jack of the next. Never connect OUT to OUT or IN to IN.

• Restart your DVR.

My DVR was working, but now the picture is frozen.

• Try changing channels several times.

• Press PAUSE, then PLAY.

• Restart your DVR.

I don’t get a picture now, even though I have been able to get one in the past.

• Your TV may not be set to the correct input. Most TVs have an input button that says either “TV/Video,” “Input,” or “Source.” It may be on the TV or on the TV remote control. Look at your TV and TV remote and try changing the input setting.
• Use the FORMAT button on the front of the DVR to cycle through the various video output formats.
• Check to make sure all of the appropriate cables are firmly connected to your DVR, television, and other audio/video equipment.
• Someone in your household may have placed the DVR in Standby mode. To return to normal mode from Standby, press either the TiVo button or the LIVE TV/SWAP button on your TiVo remote control.

My screen is blank, blue, or snowy.
• The DVR or the television may not be turned on. Check that DVR and TV are both powered on.
• You may be trying to view a different video source. Press the INPUT button on the remote control to change the video source.
• There may be a problem with this channel. Try another channel, and see if you have live video.
• Press the red RESET button behind the door on the front panel of the DVR.

I see an incorrect picture.
• If you don’t see the signal you think you should be seeing, try using these buttons to toggle between the signals:

My picture is frozen
My video breaks into blocks / pixels
I see a “Searching for a signal” message
• Severe weather (rain, snow, hail, and so on) might cause this issue. Wait for the weather to clear, and your signal should return to normal. If there are no weather problems in your area, reset your DVR using the red RESET button, or by unplugging the DVR for 15 seconds, and then plugging it back in.
• There might be an obstruction to your dish (for example, debris, snow, ice) or a building or tree that blocks your line of sight to the satellite. If there are obstructions blocking the dish’s clear view of the satellite, you should contact a professional to remove them or a DIRECTV installer at 1-800-531-5000 to relocate your dish.
• There might be a problem with the cables running from your satellite dish to your DVR. Check all the cable connections.
7 Troubleshooting

between your DVR and the satellite dish for loose or broken connections.

• If the picture is frozen, blocky, or pixels, there might be a problem with the transmission from the source. If the problem is coming from the program source, wait for the broadcasting channel to resolve the issue.

• The five-minute free preview of a DIRECTV on Demand movie might have expired. Purchase the movie to continue watching the show.

• If your signal strength is lower than 70 (60 or lower on HD boxes) on most transponders in good weather, contact a professional installer to realign your dish or call us at 1-800-531-5000.

My recording has no audio.

• If this is a new setup and you have not had sound, check the cables between your TV and the DVR.

• Verify that your surround sound system is working, if applicable.

• Verify that the volume on the TV is loud enough to hear.

My audio system is set up to play in stereo, but it is only playing mono.

• Make sure that Default Audio Program (stereo) is selected on the Audio settings screen, and be sure you connected audio using the DVR’s L/R Audio Out jacks.

I can’t select an alternate audio track.

• Recorded shows, such as those in the Now Playing List, always have only one audio track, the one with which they were recorded.

• You cannot change the audio track if you are watching a live show, but are not caught up to live TV. Catch up to live TV by pressing the ADVANCE button. Changing the audio program will clear the saved part of the show you are watching, so you will only be able to rewind live TV to the point where you changed the audio program.

My shows are playing in the wrong language.

• You may have selected the wrong language in the Default Audio Language setting. To modify this setting, select ‘Messages & Settings,’ then ‘Settings,’ then ‘Audio,’ then ‘Alternate Audio.’
I see a gray screen with a message that says “Searching for signal.”

Your DVR is having trouble tuning to the channel you are on. Follow these steps to restore the video:

- Try changing channels. If the message appears on just a few channels, you may be tuned to a channel to which you do not subscribe, or you might have a weak signal on a channel to which you do subscribe.
- You might be experiencing a temporary cable outage; check with your cable provider.
- Try adjusting your antenna.
- Your video cable may have come loose. Make sure all the cable connections on the back of your DVR are secure.
- The cables you are using to connect your DVR to your TV or other equipment might be damaged or defective. Try exchanging the cables connected to the DVR with other cables that you know are working properly.

Parental Controls

My Parental Controls are not working.

- For Parental Controls to work, they must be on (not temporarily turned off). When you enter your password to watch a show that violates Parental Controls, they are temporarily turned off. You can re-enable them on the Parental Controls screen (from TiVo Central, select ‘Messages & Settings,’ then ‘Settings,’ then ‘Parental Controls’), or by putting your DVR in Standby mode and then taking it out of Standby. (Put your DVR in Standby mode by selecting ‘Messages & Settings,’ then ‘Standby.’ To return to normal mode from Standby, press either the TiVo button or the LIVE TV/SWAP button.)

I disabled Parental Controls, but I still can’t tune to the channel I want.

- You might be using a channel list that does not include the channel you want. Use the number buttons on the remote control to enter the channel number, then press the ENTER button.

The TiVo Remote Control

My TiVo remote control doesn’t work with my DVR.

- Be sure you are using the DVR’s remote control, and that you hold it so that the TiVo button points toward the DVR.
- Press any button on the remote. Does the light on the remote flash?
  - If the light does not flash, make sure the batteries are positioned correctly in the remote. If they are correctly positioned, try a new set of batteries.
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- If the light on the remote does flash, watch the lights on the front of the DVR. If lights on the front of the DVR do not respond to the remote, restart your DVR by unplugging it, waiting 15 seconds, then plugging it back in.
- Check that nothing is between the remote control and the remote sensor.
- Make sure that your DVR’s ID and your remote control settings match. (For instance, if your remote control is set up to control DVR 1, but your DVR ID is DVR 2, the remote and the DVR cannot communicate.) See “IR/RF & multiple DVRs setup” on page 69.
- If you’re entering a channel number that is less than four digits long, the DVR might wait two seconds before tuning to the channel. Press ENTER after entering a channel number to tune immediately.
- If the indicator lights on the remote control start flashing, the batteries in the remote control are running low and should be replaced soon. You might also see an on-screen message that the batteries are low. Note that when you replace the batteries, you should not have to reprogram your remote to control other devices unless the batteries have been completely dead for a month or more.

Caller ID

Caller ID is not working

- Make sure that you subscribe to Caller ID service through your local phone company. Call your local phone company to subscribe to Caller ID service.
- Verify that your phone line is connected to your DVR.
- The Caller ID feature in your DVR may not be turned on. Go to TiVo Central, then select ‘Messages & Settings’ > ‘Settings’ > ‘Displays’ > ‘Caller ID.’
- If you are using a wireless phone jack, verify that it transmits Caller ID information. If not, connect a standard phone cable to your DVR or replace your wireless phone jack.

Network connections

If you’re having trouble connecting to DIRECTV via network, the problem might be in the connection of your DVR to your home network, or it might be in the connection of your home network to the Internet.

To figure out where the problem is, try to go online and view a website from a computer on the same network as your DVR. If you can’t browse the web from your computer, troubleshoot the
connection from your home network to the Internet. Try the suggestions below:

- **Check physical connections and cables.** Ensure that all network equipment is receiving power and that all cable connections for routers, hubs, access points, and computers in the network are working. Verify that the “link” light is lit on all devices connected to the network.

- **Powercycle network devices.** If you have a router or wireless access point, unplug it, wait a moment, and then plug it back in.

- **Check your Network Settings.** Verify that your Network Settings are correct.

- **Update router or home gateway firmware.** If your home network uses a router, home gateway, or wireless access point, it may need a firmware update. Firmware is a software program that is loaded onto a hardware device. You can usually find any updated firmware at the Customer Support website for the manufacturer of your hardware.

- **Check Static IP Address.** If you assigned an IP address to your DVR, check that its IP address is unique on your network. Also, confirm that the first three sets of numbers of the DVR’s IP address are the same as those of other devices on the network. (For example, if your computer’s IP address starts with 192.168.1, then your DVR’s IP address must also start with 192.168.1.)

- **Restart the DVR.**

My wireless network adapter doesn’t seem to be working.

- The DVR supports only wireless adapters that use an Ethernet port to connect to a media device. USB devices are not supported.

- Make sure that your wireless adapter is fully configured before it is connected to your DVR.
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FCC customer information 105
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Other licensing information 118
Limited 90-day warranty

DIRECTV warrants your TiVo HD DVR from DIRECTV (Model THR22-100) and any included accessories against defects in material or workmanship for a period of ninety (90) days after the date of acquisition.

WHO IS COVERED?
You must have proof of acquisition to receive warranty service. A receipt or other document showing that you acquired the product is considered proof of acquisition. THIS LIMITED WARRANTY EXTENDS ONLY TO THE ORIGINAL CONSUMER ACQUIRER OR ANY PERSON RECEIVING THE DVR AS A GIFT FROM THE ORIGINAL CONSUMER ACQUIRER AND TO NO OTHER ACQUIRER OR TRANSFEREE. THIS WARRANTY DOES NOT EXTEND TO COMMERCIAL USERS. THIS PRODUCT IS NOT AUTHORIZED FOR USE OUTSIDE THE UNITED STATES AND ANY SUCH USE VOIDS THIS WARRANTY.

WHAT IS COVERED?
Warranty coverage begins the day you acquire the product. For ninety (90) days from the acquisition date, at the option of DIRECTV, the DVR will be repaired or replaced with a new, repaired, refurbished or comparable product (whichever is deemed necessary) if it becomes defective or inoperative. This exchange is done without charge to you for parts and labor. You will be responsible for the cost of shipping to and from the location designated by DIRECTV. If DIRECTV cannot reasonably repair or replace the Receiver then DIRECTV may, at its sole discretion, refund the price you paid for the product or the current retail price of the product.

All products, including replacement products, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires. After ninety (90) days from the date of acquisition, you pay for the replacement of all parts, and for all labor charges.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
WHAT IS EXCLUDED?

Your warranty does NOT cover:

- Labor charges for installation or setup of the product.
- Installation, performance of, or repair of: audio/video cabling, telephone line, or accessory attachments used with the product.
- Product replacement because of misuse, accident, lightning damage, unauthorized repair, or other cause not within the control of DIRECTV.
- Incidental or consequential damages resulting from the product. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.
- Any modifications or other changes to the product, including but not limited to software or hardware modification in any way other than as expressly authorized by DIRECTV will void this limited warranty. Except in the case of hardware or software provided by DIRECTV, installing software modifications, “hacks” or utilizing service access or “back doors” will void this limited warranty.
- Reception transmission problems caused by signal conditions, telephone line, or cable or antenna systems outside the unit.
- A product that has been modified or adapted to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes.
- DIRECTV makes no warranty that the access connection will be a local (not long distance) phone call.
- The continued provisioning of any of the programming and other services delivered through the Receiver including but not limited to television programming, show information, program guide data, and scheduling information.

MAKE SURE YOU KEEP

Please keep your receipt or other document showing proof of acquisition. Attach it to this User Guide and keep both nearby. Also keep the original box and packing material in case you need to return your product.
BEFORE REQUESTING REPAIR SERVICE
Please check the troubleshooting section of this guide. This may save you a call to DIRECTV Customer Care.

TO GET WARRANTY SERVICE
Warranty service will be provided by DIRECTV. If you believe you need service for your Receiver, contact DIRECTV at 1-800-531-5000. A representative will go through a diagnostic checklist with you. If it is determined that the product needs to be returned for service or exchanged, you will receive a return authorization number. The representative will give you complete shipping details.

TO GET OUT-OF-WARRANTY SERVICE
To obtain out-of-warranty service contact DIRECTV at 1-800-531-5000 for information on the possibility of and any costs for repair or replacement of out-of-warranty products.

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Keep your receipt to obtain warranty parts and service and for proof of acquisition. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product. (You may have noted some of this information when you connected the cables to your receiver.)

| Model number |  |
| Serial number |  |
| Acquisition date |  |
| Dealer address/phone |  |
| Access card: |  |
| Receiver ID: |  |
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8 Warranty and other information

DIRECTV PROTECTION PLAN

Safeguard your DIRECTV® System with the ULTIMATE in professional technical service. For a low monthly fee, the DIRECTV PROTECTION PLAN covers the components of your entire DIRECTV® System, giving you affordable peace of mind and comprehensive support to ensure that you and your family enjoy nonstop DIRECTV® entertainment.

DIRECTV PROTECTION PLAN benefits

Your DIRECTV Limited Warranty provides certain remedies for this receiver during the stated coverage term. The DIRECTV PROTECTION PLAN provides comprehensive coverage for your DIRECTV® System, including:

• Professional In-home service calls when needed
• Dedicated Technical Support 24-hour a day
• Power surge related repairs including those caused by lightning
• Unlimited dish antenna alignments
• Cables, switches, and associated wiring throughout your home
• Replacement of defective receiver equipment
  (if problem can not be resolved over the phone)*
• Defective remote control replacements
• All parts and labor for repair

All this for one low monthly fee covers every DIRECTV Component and Receiver on your account.

Sign up today for the DIRECTV PROTECTION PLAN by calling 1-800-531-5000

The DIRECTV PROTECTION PLAN is offered by AIG Warranty Guard and underwritten by New Hampshire Insurance Company on behalf of DIRECTV where authorized by law. Certain limitations may apply. Pricing, terms and conditions of the DIRECTV PROTECTION PLAN are subject to change. Full terms and conditions will be sent to you via mail or email prior to service billing and are available at directv.com/protection. (Note: Annual payment option not available.)
FCC customer information

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.

• Responsible Party:
  DIRECTV
  2230 E. Imperial Hwy
  El Segundo, CA 90245
  1-800-531-5000
• Trade Name: DIRECTV
• Type of Equipment: DIRECTV Satellite Receiver
• Model Number: THR22-100

FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment complies with both Part 15 and Part 68 of the FCC rules.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving satellite dish antenna.
• Increase the separation between the equipment and the DIRECTV Receiver.
• Connect the equipment into an outlet on a circuit different from that to which the DIRECTV Receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user’s authority to operate the equipment.

The user may find the following booklet, prepared by the Federal communications Commission, helpful: “How to Identify and Resolve Radio and TV Interference Problems.” This booklet is available from the U.S. Government Printing Office, Washington, DC. To meet FCC requirements, only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with Class B limits may be attached to this device. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. To meet FCC requirements, shielded cables are required to connect the device to a personal computer, peripheral, or other Class B certified device.

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the back of this equipment is a label that contains a product identifier in the format US:AAAAEQ##TXXXX. If requested, this information must be provided to your telephone company. This equipment uses the following USOC Jack: RJ11C. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

See installation instructions for details.

The REN is used to determine the number of devices that may connect to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed five (5.0).

To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact your local telephone company. The REN for this product is part of the product identifier that has the format US:AAAAEQ##TXXXX. The digits represented by ## are the REN without the decimal point (e.g., 03 is a REN of 0.3).

If this DIRECTV® Receiver causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn’t practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service. Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If trouble is experienced with this unit, for repair or warranty information, please contact DIRECTV Customer Care at the address and phone number listed below. If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved.

DIRECTV
2230 E. Imperial Hwy
El Segundo, CA 90245
1-800-531-5000

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this DIRECTV Satellite Receiver does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your alarm company, telephone company or a qualified installer.

DO NOT DISASSEMBLE THIS EQUIPMENT. It does not contain any user-serviceable components.

We recommend the installation of an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources.
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Also add information on how to contact you by electronic and paper mail.
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Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type ‘show w’.

This is free software, and you are welcome to redistribute it under certain conditions; type ‘show c’ for details.

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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SSLeay
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

TURING ENCRYPTION TECHNOLOGY
This software incorporates the Turing encryption algorithm authored by QUALCOMM Incorporated. Encryption by QUALCOMM.
Warranty and other information
Appendix A: Front/Back Panels & Specifications

Front Panel Reference 122
Back Panel Reference 124
Specifications 126
Front Panel Reference

1. **POWER button** – Press to turn the DVR on or off.
2. **IR receiver window** – The area of the unit the receives infra-red remote control signals.
3. **GUIDE button** – Press to bring up the program guide (equivalent to pressing the GUIDE on your remote control).
4. **TiVo Central® button** – Press to bring up the TiVo Central screen (equivalent to pressing the TiVo button on your remote control).
5. **RECORD button** – Press to record a program (equivalent to pressing the RECORD button on your remote control).
6. **Left/right/up/down buttons** – Press to navigate through menus (equivalent to the LEFT, RIGHT, UP, and DOWN arrows on your remote control).
7. **Ring LED.**
8. **SELECT button** – Press to select highlighted item on the screen (equivalent to the SELECT button on your remote control).
9. **ACTIVE button** – Press to access the DIRECTV Active® channel (equivalent to the ACTIVE button on your remote control).
10. **INFO button** – Press to bring up (or hide) the channel banner (equivalent to the INFO button on your remote control).

11. **VIDEO FORMAT button** – Press to cycle through video formats (480i, 480p, 720p, 1080i, 1080p).

12. **Video format LEDs** – Indicates which video format is currently displayed.

13. **USB connector (behind door)** – For future use.

14. **RESET button (behind door)** – Resets the DVR.

15. **Access card slot (behind door)** – Open door to find your Access card.
Back Panel Reference

1. **SATELLITE IN 1 (SWM-2)** – If you have a single-wire multi-switch, connect it here. If you two cables coming from the satellite dish, connect one here and the other to SATELLITE IN 2.

2. **SATELLITE IN 2** – Connect the second line from your satellite dish here.

3. **USB** – For future use.

4. **RCA-Audio/Video Jacks** – Use these connectors for SD output.

5. **COMPONENT VIDEO OUT** – Use this block to connect up component video cables (green, blue, red) and use the white and red RCA connectors below it for analog audio out.

6. **DIGITAL AUDIO OUT COAX** – Use this digital audio connection for sound.

7. **HDMI OUT** – Use this combination digital video and audio connector for the best picture quality.

8. **SATA** – Use this connector to add an external hard drive to your DVR.
9. **PHONE JACK** – Connect your phone line here to enable Pay Per View purchasing and Caller ID (if your phone service package includes it).

10. **POWER** – Plug the power outlet into a wall outlet to provide power. Your DVR must be plugged in at all times to function properly.

11. **S-VIDEO OUT** – Use this connector for SD output.

12. **DIGITAL AUDIO OUT OPTICAL** – Use this digital audio connection for sound.

13. **ETHERNET** – Use this connector to connect your DVR to your home network.
Specifications

VIDEO OUT
- HDMI (1) (combined audio/video)
- S-Video (1)
- Component video RCA (1)
- Composite video RCA (2)
- HDMI (1) (combined audio/video)

AUDIO OUT
- HDMI (1) (combined audio/video)
- Digital audio (coaxial) (1), (optical) (1)
- Stereo L/R RCA (2 pair)

RF IN
- Satellite (2)

EXPANSION PORT
- USB (2)
- Ethernet (2)
- E-SATA (1) *for TiVo®-verified external hard drive

POWER
- 100-240VAC, 50/60Hz, 70W

AMBIENT (EXTERNAL) OPERATING TEMPERATURE
- 15 °C to 35 °C

OPERATING HUMIDITY
- 5% to 80%

DIMENSIONS
- 14.75” w x 11.5” d x 3” h

STORAGE
- SATA Hard Drive. NOTE: Actual recording capacity depends on signal quality and the type of programming being recorded.
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Remote Control Tips

**Program your TiVo® remote** to control your TV or A/V receiver. See Customize Your TiVo Remote to the right.

Press the TiVo button once to go to the TiVo Central® screen, or twice to go to the Now Playing List—your list of recorded programs.

Press **LIVE TV** to switch between tuners.

Press **FORWARD** and **BACK** up to 3 times for 3 speeds. Press **PLAY** to resume normal play.

**INSTANT REPLAY** replays the last 8 seconds of a program. While rewinding a recording, press **INSTANT REPLAY** to jump to the previous tick mark.

Press **CLEAR** to delete a title in a list (like the Now Playing List) or to hide things that aren’t part of the program you’re watching (like the TiVo channel banner).

Press **GUIDE** to see the program guide, then press **ENTER** while the guide is visible for Guide Options that let you show only certain types of programs or change the way channels display.

When you’re viewing the program guide, press **FORWARD** or **BACK** to move the displayed time incrementally. To jump 24 hours ahead, press **ADVANCE** to jump 24 hours ahead. To go back 24 hours, press **INSTANT REPLAY** to go back.

**CHAN UP/DOWN** does more than change the channel—it also pages up or down through lists of programs or menu items.

Press **ADVANCE** to move forward 30 seconds. While fast-forwarding a recording, press **ADVANCE** to jump to the next tick mark. Press and hold to go to the end of a recording. Press and hold **INSTANT REPLAY** to go to the beginning of a recording.

---

**Inserting the Batteries**

1. Open the battery door:
   Push the battery door where it comes to a point, near the center of the back of the remote, to open.

2. Insert the batteries (supplied). Match the + and - marks on the batteries to the + and - marks in the compartment.

3. Replace the battery door.

**NOTE:** Never expose batteries to excessive heat (such as from sunshine or fire).

---

**Remote Control Troubleshooting**

Press any button on the remote. Does the red light above the TiVo button on the remote flash?

If the red light does not flash, make sure the batteries are positioned correctly in the remote. If they are correctly positioned, try a new set of batteries.

If the red light on the remote does flash, but the lights on the front of the DVR do not respond to the remote, restart your DVR by unplugging it, waiting 15 seconds, then plugging it back in.

See the Troubleshooting chapter for more help with your remote control.
Some buttons on your TiVo remote control are programmable:

- TV POWER
- TV INPUT
- VOLUME & MUTE (can control sound on your TV or A/V receiver)
- TV INPUT

To program your TiVo remote, press the TiVo button to go to the TiVo Central® screen and select Messages & Settings, then Settings, then Remote & Devices, then Remote Control. Follow the easy on-screen instructions.

Due to the wide variety of brands and models available, some TVs and A/V receivers are not compatible with your TiVo remote.

To navigate the TiVo HD DVR from DIRECTV's on-screen menus, use the remote control's arrow buttons to move to the option you want, then press SELECT.

The LEFT arrow button often takes you to the previous screen.

### Two Types of On-Screen Arrows

The arrows that appear beside or near the highlight bar show the directions it can move. For example, on this screen, you could press the RIGHT arrow to highlight Options or the DOWN arrow to highlight "View upcoming episodes."

### On-Screen Menus and the Remote Control

- **Highlight Bar**
- **Page Up Arrow**
- **Page Down Arrow**
- **Arrows near the Highlight Bar**
- **CHAN UP/DOWN Button**
- **Search for Title**
- **Highlight Bar**
- **Arrows near the Highlight Bar**
- **Page Up Arrow**
- **Page Down Arrow**
- **CHAN UP/DOWN Button**
- **Search for Title**

### Glossary of Icons

- **Now Playing**
- **This program will be saved until you delete it.**
- **In less than one day, this program may be deleted to make room for other recordings you have requested, but only if space is needed.**
- **At any time, this program may be deleted to make room for other programs you have requested.**
- **This program is currently being recorded.**
- **This program is currently being downloaded.**
- **This program is a TiVo® Suggestion. TiVo Suggestions are recorded only if space is available, and are the first to be deleted when space is needed.**
- **This folder contains more than one episode of the same series.**
- **This folder contains a program that is currently recording or transferring.**
- **This folder contains one or more programs recorded by a WishList® search.**
- **This folder contains all programs recorded as TiVo Suggestions.**

### To Do List and View Upcoming Episodes

(These icons appear beside programs scheduled to be recorded.)

- Program will be recorded as an individual recording (not part of a Season Pass® recording or WishList® search). In other places, indicates that an item has been selected.
- Program will be recorded as part of a Season Pass recording.
- Program will be recorded as part of a WishList search.

### Live TV

- **These appear when you press THUMBS UP or THUMBS DOWN.**
- **i Preview® icons appear when an option—such as automatically scheduling an upcoming program or watching an additional program segment—is available.**
- **Press SELECT or THUMBS UP to choose the option.**
- **To schedule, press the TiVo button to go to the TiVo Central® screen and select Messages & Settings, then Settings, then Remote & Devices, then Remote Control. Follow the easy on-screen instructions.**

Due to the wide variety of brands and models available, some TiVs and A/V receivers are not compatible with your TiVo remote.
TiVo® Remote Control

Live TV/Swap takes you to live TV. If you’re watching live TV, use it to switch to the other live TV feed. Info shows the channel banner while watching live TV; press it again to make it disappear.

Guide takes you to the program guide, where you can find shows to watch or record. Press it to exit the guide. Use Select to choose menu options or shows to record.

Zoom changes the aspect ratio of shows on your TV. If programmed, Pwr turns your TV or A/V receiver on or off.

Use the Channel Up/Down buttons to change the channel and to page up or down while in the program guide or TiVo menus.

If programmed, TV PWR turns your TV or A/V receiver on or off. When a show is paused, press Back to go back frame-by-frame.

Use the Arrow Buttons to navigate the TiVo menus and the program guide. Advance moves forward in 30-second increments. While fast-forwarding a recording, press Advance to jump to the next tick mark.

Advance moves forward in 30-second increments. While fast-forwarding a recording, press Advance to jump to the next tick mark.

Pause freezes a show. Press it again to resume playing.

Instant Replay repeats the last 8 seconds of the show. While rewinding a recording, press Instant Replay to jump to the previous tick mark.

Stop a show from playing or recording.

Clear removes the display of the channel banner or program guide, and deletes titles from the Now Playing or To Do list.

The TiVo button takes you to the TiVo Central® screen, the starting point for all your TiVo features and settings.

If programmed, TV PWR turns your TV or A/V receiver on or off.

If programmed, Mute turns the volume on your TV or stereo on or off.

When a show is paused, press Forward to advance frame-by-frame.

Use the Number buttons to enter channel numbers.

Clear removes the display of the channel banner or program guide, and deletes titles from the Now Playing or To Do list.

Back goes back to the previous menu.

Viewers Guide from DIRECTV

TiVo® HD DVR from DIRECTV

The TiVo button takes you to the TiVo Central® screen, the starting point for all your TiVo features and settings.

If programmed, TV PWR turns your TV or A/V receiver on or off.

If input source is selected, it appears on your TV box, DVD player, game system or TV.

Use Zoom to change aspect ratio of shows on your TV.

If programmed, Volume controls the volume on your TV or A/V receiver.

If programmed, Mute turns the volume on your TV or stereo on or off.

Use the Thumbs Up and Thumbs Down buttons to rate shows for TiVo Suggestions. Each press gives up to three Thumbs Up (great) or three Thumbs Down (bad).

If programmed, Volume controls the volume on your TV or A/V receiver.

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