

BROADBAND

TV

PHONE



USER GUIDE

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INTRODUCTION

WELCOME

TDS TV delivers a host of entertainment choices to your home: 100% Digital Television (DTV), DVD-quality video rentals, music channels, and more. Your new TDS TV system can be personalized; parental controls allow you to “build” an entertainment system to meet your needs. A convenient universal remote is included.

TDS TV transforms your television into an entertainment system. Rent and view videos, watch television programs, and listen to music. Interactive, on demand, and at home—TDS TV delivers.

TECHNICAL SUPPORT

If you experience difficulties with the system and need technical support, please contact TDS Telecom Service at 615-75-TDSTV (615-758-3788).

EQUIPMENT

This interactive system is transmitted through a set-top box, and displays on your TV set. Access system services using the remote control provided during installation.

TV

The system is accessed through your television. Volume control and input selection are adjusted with the remote.



INTRODUCTION

SET-TOP BOX



The set-top box (STB) receives signals from the remote to manage services on your account. For details on connections to the set top box see Appendix B (page 32).

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REMOTE CONTROL

Directed at the set-top box, the universal remote sends signals activating the system. The remote includes the following keys:

- Device Controls: PWR
- Numeric Keypad
- System Controls: volume and channel
- Navigation Keys: up, down, left, right, and SELECT
- Movie Controls: play, stop, pause, fast-forward, and rewind

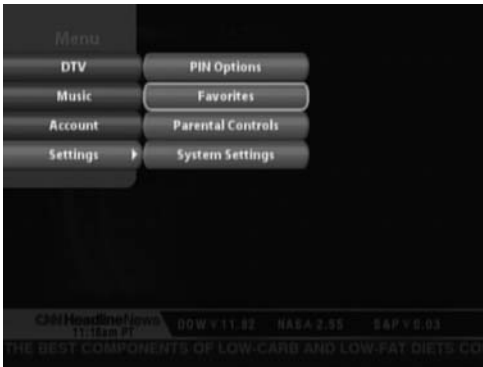


INTRODUCTION



See “Remote Control Features” on page 29 for additional information on remote functionality. Refer to the remote’s user guide for information on adjusting television settings.

SYSTEM FEATURES



Access to entertainment options is simple: use the on-screen Menu to access system features such as Digital TV, Guide, Movies, Music, and Settings.



INTRODUCTION

DIGITAL TELEVISION (DTV) GUIDE

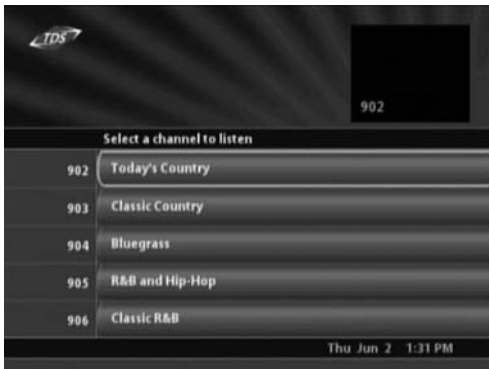
TDS TV provides local and premium television channels. The DTV Guide contains detailed information for current and future listings and a search function for locating favorite programs. Parents can set rating and system controls for television content.

Pressing **GUIDE** on the remote accesses detailed information for the selected entertainment feature (DTV, Music, etc). The last channel viewed appears on a smaller screen (screen-in-screen) while navigating the Guide. Access to the various Guides is optional; contact TDS Telecom to subscribe.

NOTE: Press **Help** on the remote for hints on navigating TDS TV system features, answers to frequently asked questions and information about legal and privacy issues.

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MUSIC



The Music feature provides a “virtual stereo” with numerous music categories. The Music Guide provides an on-screen list of available music channels by group. Access basic program information about music selections with the touch of a remote button.



INTRODUCTION

ACCOUNT



The Account screen displays a detailed record of your movie rentals and costs. This information is for explanatory purposes only; your bill from TDS Telecom will contain a complete list of charges.

SETTINGS



Change your system Personal Identification Number (PIN), manage Favorites, maintain Parental Controls, and adjust System Settings all in one location. Alter and use the Purchase and System PINs as necessary.

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GETTING STARTED

SERVICE BASICS

The following items are needed to use your TDS TV system:

- Equipment: TV, set-top box, remote, channel line-up guide.
- Personal Identification Number (PIN).

After installation, use the remote to access services on the TV.

QUICK START

After TDS TV is installed, use your PIN and universal remote to access the system.

Turning on the System

- Press TV, and then PWR on the remote to turn on the television.

The TDS TV system begins loading and DTV appears. Control volume and picture quality with the remote.

PERSONAL IDENTIFICATION NUMBER

TDS Telecom provides a 4-digit personal identification number (PIN) for your system. Your PIN is used to rent movies, and set parental controls for TV programs and movie ratings. When required, an onscreen message requests entering the PIN using the remote. As a security measure, asterisks appear as numbers are entered. If the wrong PIN is entered, a message prompts re-entry



GETTING STARTED

REMOTE CONTROL

Use the remote arrow keys to navigate TDS TV. While navigating on-screen (Guide options, buttons, icons, and links) a highlight appears around selected items.

Navigating with the Remote

1. Use the remote arrow keys to move the on-screen highlight. The selected option is highlighted.
2. Press **SELECT** on the remote.

An action occurs and the screen changes.

ON-SCREEN MENU AND FEATURE BUTTONS

Navigate TDS TV two ways: the on-screen Menu or the remote Feature buttons. The Menu displays a list of main features (DTV, Movies, Music, etc.) available on the system, contains options for controlling how and if the system displays certain information (Parental Controls, Favorites, System Settings, Change PIN), and provides an account history. Feature buttons (DTV, Movies, etc.) jump directly to a particular service.

Using the Menu

1. Press **MENU** on the remote.
2. Use the arrow keys and **SELECT** to choose a Menu option. The system jumps to the selected feature.



GETTING STARTED

SETTINGS

The Settings feature allows authorized users to define parental controls, view account history, and change the system PIN. TDS Telecom issued your initial PIN necessary to establish fundamental settings.

PINS

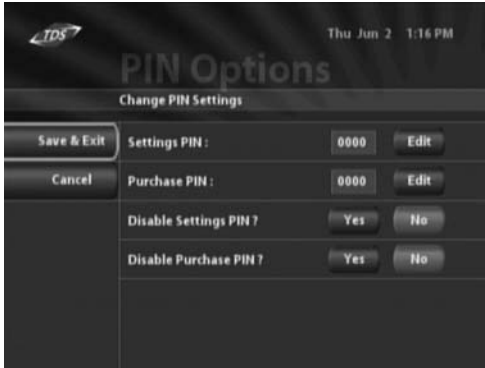
There are two PINs used in your TDS TV system:

- **System PIN**—The System PIN allows you to set parental controls, set your system display language and audio language, and view your account history. TDS provided the initial System PIN, but using the Settings menu you can change your System PIN, or inactivate the need for a System PIN.
- **Purchase PIN**—The Purchase PIN allows you to purchase PPV movies, and other items purchased per use. Your service provider provides the initial Purchase PIN, but using the Settings menu you can change your Purchase PIN, or inactivate the need for a Purchase PIN.



GETTING STARTED

SYSTEM PIN



Changing the System PIN

Create and Modify the PIN for System Settings.

1. Press **MENU** on the remote.
2. Select **Settings**, and then select **PIN Options**.
3. Select **Edit** to change the **Settings PIN**.
4. Enter numbers using the remote, press → when finished.
(default PIN is – 0000)
5. Click **Save and Exit** to complete the PIN modification and return to the Menu. A confirmation message appears; after a few seconds, the system returns to the Menu.

Enable/Disable Settings PIN

Select to enable or disable the Settings PIN; you will no longer be prompted for your PIN while accessing System Settings or making a purchase in the system.



GETTING STARTED

1. Press **MENU** on the remote.
2. Select **Settings**, and then **PIN Options**.
3. Select to Enable or Disable the Settings PIN; press **Y** for Yes and **N** for No.
4. Click **Save and Exit** to complete the PIN modification and return to the Menu. A confirmation message appears; after a few seconds, the system returns to the Menu.

PURCHASE PIN

Changing the Purchase PIN

Create and Modify the PIN for purchasing items in the system.

1. Press **MENU** on the remote.
2. Select **Settings**, and then select **PIN Options**.
3. Select **Edit** to change the **Purchase PIN**.
4. Enter numbers using the remote, press → when finished. (default PIN is – 0000)
5. Click **Save and Exit** to complete the PIN modification and return to the Menu. A confirmation message appears; after a few seconds, the system returns to the Menu.

Enable/Disable Purchase PIN

Select to enable or disable the Purchase PIN; you will no longer be prompted for your PIN when making a purchase in the system.



GETTING STARTED

1. Press **MENU** on the remote.
2. Select **Settings**, and then **PIN Options**.
3. Select to Enable or Disable the Purchase PIN; press **Y** for Yes and **N** for No.
4. Click **Save and Exit** to complete the PIN modification and return to the Menu. A confirmation message appears; after a few seconds, the system returns to the Menu.

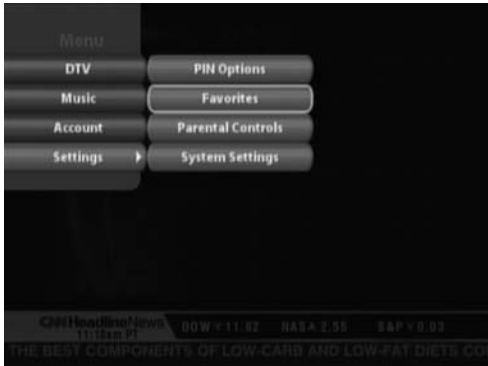
FAVORITES

With access to hundreds of channels you can create, edit, and delete a list of your most frequently viewed and favorite channels. Use the default favorites lists (All or Subscribed) or create your own (up to 5 unique lists.)



GETTING STARTED

Displaying Favorites Lists



1. Press **MENU** on the remote. The Main menu displays.
2. Select **Settings**, then **Favorites**.
3. Select **New**. Peruse the list of channels to either select or deselect each channel. The selected Favorites list appears at the top of the screen and the displayed channels are arranged according to the Favorites list in the Program Guide.
4. Select **Save & Exit**.

Note: Pressing the **GUIDE** button will scroll through the names of your favorites lists.

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GETTING STARTED



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1. Press **MENU** on the remote. The Main menu displays.
2. Select **Settings**, and then **Favorites**.
3. Choose the list to rename by using the << or >> keys to select the Favorites list to edit. Peruse the list of channels to either select or deselect each channel.
4. Select the **Rename** button. The Rename dialog box appears, revealing the on-screen keyboard.
5. Use the on-screen keyboard to change the name (from 1 to 10 characters).
6. Select **Done**. The Rename dialog box closes. The Edit Favorites screen is updated and reflects the new name.
7. Select **Exit**.



GETTING STARTED



1. Press **MENU** on the remote. The Main menu displays.
2. Select **Settings**, and then **Favorites**.
3. Choose **Delete**. The Confirm Deleting dialog box appears.
4. Select **Yes**. The Delete Favorites screen is updated and reflects the removed Favorite.
5. Select **Exit**.

PARENTAL CONTROLS

Setting Parental Controls

Use Parental Controls to set maximum viewable ratings for movies and TV programs, as well as prevent unrated TV shows from displaying. A valid PIN is required to alter Parental Controls. TDS TV uses TV Parental Guidelines and MPAA ratings for movies. These ratings give parents more information about content and age appropriateness of TV shows.

[**NOTE:** Not all TV programs and movies are rated. To prevent unrated programs from being accessed, set Parental Controls accordingly.]



GETTING STARTED



1. Press **MENU** on the remote.
2. Select **Settings**, and then **Parental Controls**. The Enter PIN dialog box appears.
3. Enter your PIN
4. Select options for the following:
 - **Enable Parental Controls**—Select Yes or No to activate Parental Control features throughout the system.
 - **MPEG Ratings**—Control viewing of programs below the selected MPEG ratings level (PG 13 etc.).
 - **VCHIP Ratings**—Control viewing of programs below the selected VCHIP rating level (TV-14 etc.).
 - **Lock Unrated Shows** —Select Yes or No to restrict viewing of shows that are not assigned a rating.
 - **Show Titles**—Select Yes or No to Display titles exceeding parental control levels.
 - **Hide Channels**—Select Yes or No to remove channels from the system.
5. Enter preferences using the remote keys and **SELECT**.
6. Select **Exit**.

[NOTE: See "Overriding Parental Controls" on page 26 for additional information.]



GETTING STARTED

ACCOUNT HISTORY



Viewing Account History

1. Press **MENU** on the remote.
2. Select **Account**. The Enter PIN dialog box appears.
3. Enter your System PIN.
4. The Account History screen appears. View transactions and account information.

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GETTING STARTED

SYSTEM SETTINGS



Program Information Overlay

Basic program information appears on-screen as channels are changed; to enable/disable this feature:

1. Press **MENU** on the remote.
2. Select **Settings**, and then **System Settings**. Enter the system PIN.
3. Use the remote arrow keys and SELECT and verify Yes or No to Show Information when Changing Channels.
4. Select **Exit**.

Connecting Audio

Verify the audio connection from the set-top box to the TV. The set-top box may be connected using either analog or digital audio. The STB default setting is analog audio.



GETTING STARTED

1. Press **MENU** on the remote.
2. Select **Settings**, and then **System Settings**. Enter the system PIN.
3. Use the remote arrow keys and **SELECT** to change the output setting of your cabling if necessary and verify Yes or No to Enable AC-3 S/PDIF output.
4. Select **Exit**.

Optimize Video

Select to optimize video output based on the video cable setup. Not all set-top boxes contain this option.

1. Press **MENU** on the remote.
2. Select **Settings**, and then **System Settings**.
3. Enter the system PIN.

If the set-top box is connected with any system video cable, and an inconsistent option button is selected on the Settings screen, the video image may appear distorted. To revert back to previous video settings (the default is no option selected), press Promos four times, then DTV once. To restore optimum video performance, return to the System Settings screen and select the proper video setting (setting should match video output cable choice).

4. Use the remote arrow keys and **SELECT** to verify and optimize the appropriate video output used. Choose from Composite, SVideo, or Modulator (RF or coax).
5. Select **Exit**.



GETTING STARTED

TV Display Format

You can set your TV format to enable the most optimal image for your display; select the appropriate option for your TV to preserve the complete image. Select 16:9 for 16:9 format televisions; select 4:3 or 4:30 letter box for 4:3 televisions. Options include:

- 4:3—Crops the left and right sides of the image and displays a 4:3 image.
- 4:3 Letter box—Shrinks the image vertically to preserve its aspect ratio on a 4:3 display and puts black bars at the top and bottom of the image.
- 16:9—The image is not manipulated, so it displays in the original format.

1. Press **MENU** on the remote. The Main menu displays.
2. Select **System Settings**, and then next to the Video Aspect Ratio option, select the arrows to choose your display format (4:3, 4:3 Letter box, or 16:9).
3. Select **Save & Exit**. Overview



DIGITAL TELEVISION (DTV)

OVERVIEW

Digital Television (DTV) from TDS Telecom allows you to access local and premium television channels. The DTV Guide provides the ability to access and search program listings. Use the remote to navigate DTV channels and guide. Pressing **GUIDE** on the remote is the only way to access the guide.

Access a week of programming information with the DTV Guide. The Guide provides on-screen information for all subscriber channels and programs. The "picture in guide" function allows you to scan the Guide while watching a program.

CHANNEL SELECTION

VIEWING TDS TV

[**NOTE:** If the remote does not function properly, ensure it is accurately programmed for compatibility with your brand of television.]

1. Press **MENU** on the remote.
2. Select **TV** from the Menu. The first channel in the lineup appears.
3. To view a channel or change channels:
 - Enter the channel number (e.g. 04 or 812) and press **ENTER** using the numeric keypad on the remote.
 - Press **CH +/-**.
 - Press **GUIDE** and use the navigation arrows and **SELECT** on the DTV Guide.
 - Use the up/down navigational arrows and **SELECT** to browse listings.
 - Press **LAST** to return to previous channel.



Program information (channel, network, title, duration, air-time, and description) appears briefly as channels change. This information appears depending on system settings.

DTV GUIDE

TDS TV Guide provides the most up to date program information in an easy to use and intuitive format. Use visual cues on the Guide to view, browse, and search program listings, as well as purchase pay-per-view programs.

Color Coding

[NOTE: Pressing GUIDE on remote is the only way to access the guide.]

The Guide contains a color coded system, to differentiate at first glance the type of programs available. Colors include:

Table 1 Color Coding

Color	Meaning
Light Green/Blue	Normal Programming
Dark Green	No Information Available
Dark Gray	Unsubscribed
Dark Blue System	Movies, Promos, Search
Red	Sports
Light Green	News
Light Blue	Children's
Purple	Movies

Searching the Guide

1. Press **DTV** on remote, then press **GUIDE**.



2. Using the arrow keys on remote, scroll up to the **SEARCH** line item (looks like a channel in the guide),
3. Press **SELECT**. The on-screen keyboard displays,
4. Use the navigational arrow keys to navigate letters and numbers to spell search term/word,
5. Press **DONE**.

The Search feature queries both titles and descriptions of the item.

Viewing Program Information

1. Press **MENU** on the remote, and then press **GUIDE** to access the DTV Guide).
 - Use the navigational arrow keys to browse programs. The Guide advances in 30 minute increments displaying future programming; a highlight appears around a selected channel.
 - Use fast-forward or rewind (>> or <<) to display program listings for the next day.
 - Use CH +/- to preview channels in the upper right corner from the DTV Guide.
2. Highlight a program.
3. Press **SELECT** to change to the channel or press **INFO** to display program information. Press **INFO** again to clear information and return to the guide.
4. Use the arrow keys and **SELECT** to browse other channels in the Guide.



PAY-PER-VIEW

Renting a PPV Movie

1. Press **DTV** on the remote, then press **GUIDE**. Navigate using remote arrow keys to a PPV channel.
2. Press **SELECT** on the remote. If the movie is in progress, a warning box is presented that states "Selected Program already showing. Continue?" Options are **YES** or **NO**. Selecting **YES** allows you to continue renting movie.
3. The rental screen displays and contains description of movie, rating, actors, runtime and cost to rent.
4. Enter your **PIN** to rent the move, or press **CANCEL** on this screen.
 - **CANCEL** on-screen takes you back to DTV channel. Entering PIN adds an icon on the rental screen that says **ACCEPT CHARGES?**
 - **CANCEL** Button is also present. Accepting charges rents the movie. Cancel returns you to DTV.



AUTOTUNE/REMINDERS

*Setting Autotune/Reminders*

1. Press **DTV** on the remote, and then press **GUIDE** to access the DTV Guide.
 - Use the navigational arrow keys to browse programs. The Guide advances in 30 minute increments displaying future programming; a highlight appears around a selected channel.
 - Use fast-forward or rewind (>> or <<) to display program listings for the next day.
 - Use **CH +/-** to preview channels in the upper right corner from the DTV Guide.
2. Highlight a future program and **SELECT**.
3. The Autotune/Reminder page appears. Select either an Autotune or a Reminder event. Select the preferred event time by using the +/- buttons to select a time period from 1 to 99 minutes.
4. Select **Save & Exit** to return to the DTV Guide.



Confirming a Reminder

When watching DTV, an Autotune reminder changes the station for you.

- Click **OK** to accept.
- Click **DISMISS** to ignore.

PARENTAL CONTROLS (DTV)

Parental Control ratings determine accessible DTV programs. The TDS TV system blocks restricted programs from being viewed and/or displayed in the DTV Guide, according to preset parental control settings.

Parental Guidelines for television programs contain two parts: an age-based rating indicating the age group for which a particular program is designed, and a content-based rating indicating program material. Some key letters and definitions found in TV ratings include:

- V = Violence
- S = Sexual Conditions
- L = Coarse or crude indecent language
- D = Suggestive dialog
- FV = Fantasy violence



Table 2 TV Ratings and Meaning

Rating	Meaning
TV-Y	All Children
TV-Y7	Directed to Older Children
TV-G	General Audience
TV-PG	Parental Guidance Suggested
TV-14	Parents Strongly Cautioned
TV-MA	Mature Audience Only

Overriding Parental Controls

When a restricted program is accessed, a Parental Control Override screen appears. The override feature allows a valid PIN to temporarily extend the parental control rating. An override applies only to the current show and continues for the duration of the television program.

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EMERGENCY ALERT SYSTEM (EAS)

Your set-top box may be interrupted for Emergency Alert System (EAS) updates when the system is in DTV, PPV, or Guide mode. The system will automatically change to the EAS alert channel when an EAS event occurs. The DTV guide is disabled during an EAS event. EAS events do not effect viewing of VOD, Music, and Web surfing.



OVERVIEW

The Music feature provides a “virtual stereo” with numerous music categories. Access a comprehensive Music Guide or basic program information for individual music selections with the touch of a remote button.



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AUDIO CHANNELS

The Music Guide provides a list of the available audio/music channels. The Music Guide highlights and plays the most recently accessed music channel.

Access Music Guide

1. Press **MENU** on the remote..
2. Select **MUSIC** from the Menu or press the Music button on the remote.

The last audio channel begins playing. Channel information displays.

3. Press **GUIDE** to list available music channels.
4. Use remote arrow keys and **SELECT** to browse music.



Changing Audio Channels

Change audio channels with one of the following:

- Press **CH +/-**.
- Use **Music Guide** and navigation keys.
- Use the **numeric keypad** to type audio channel and **ENTER**.
- Press **LAST** to return to the previous audio channel.

Viewing Audio information

TDS TV displays basic program information for an individual audio selection as channels are changed. The system also displays title, track, and artist information and can be accessed by pressing the **INFO** button on the remote.



APPENDIX A: THE REMOTE

REMOTE CONTROL FEATURES

The TDS TV universal remote control sends infrared signals to the TV and set-top box. The remote control uses navigation keys (left, right, up, and down arrows) to move highlights on-screen; selections are confirmed by pressing SELECT or ENTER.



Device Controls

Select system mode; turn system on/off.

Numeric Keypad

Enter channel or PIN.

System Controls

Control volume, change channel, switch to last channel viewed, and change video source for TV.

Direct Access Buttons

SELECT Confirm on-screen selection.

GUIDE Display detailed program listings for a system feature.

MENU Display system Menu; access system features.

EXIT Return to previous feature.

INFO Provide details for current program or selection.

Navigation Arrows

Move on-screen highlight up, down, left, and right.

Movie Controls

Play, stop, pause, fast-forward, and rewind movies.

Feature Buttons

Jump directly to main features: DTV, Movies, Music, Media, Promos, and Help.



APPENDIX A: THE REMOTE

Common uses for remote keys are noted in the step-by-step procedures throughout this guide. The following table details functions of various keys.

Table 3: Remote Control Features

Key	Function
SETUP	Use for all programming sequences.
Device controls	PWR, Control system mode; turns other services on/off.
Numeric keypad (0-9)	Enter specific channel numbers and PINs.
SELECT, ENTER	Confirm selection.
System controls	VOL +/- Control volume CH +/- Change channels. LAST Return to last channel viewed. INPUT Change input mode for TV.
Direct Access buttons	GUIDE Display detailed program feature listings. EXIT Return to previous screen. INFO Display basic details for selected program. MENU Display system Menu; access system features.
Navigation arrows	Move the on-screen highlight, up/down, left, and right. Use SELECT to confirm selection. Forward and backward day arrows are active when browsing for available movies.



APPENDIX B: THE SET-TOP BOX

OVERVIEW

The following provides details about the set-top box and is for informational purposes only. Do not change or alter any of the equipment installed by TDS Telecom.

FRONT PANEL

Below is a representation of the front panel of the set-top box.



Table 4: Front Panel of the Set-top Box

Component	Function
Infrared (IR) Receiver	Translates infrared signals from the remote.
Indicator LEDs	Light emitting diodes (LED) lights when unit power is on dark when unit use unplugged or in power stand by mode.



APPENDIX B: THE SET-TOP BOX

BACK PANEL



Table 5: Back Panel of the Set-top Box

#	Component	Function
1	Power connector	Attaches AC cord to power unit. It is important the set-top box and the TV are plugged into the same electrical circuit (same wall plate or surge protector outlet strip).
2	Ethernet RJ-45	Ethernet Connects the Network Interface Card (NIC) in the unit to an RJ-45 terminated CAT5 cable.
3	USB Connector	Not Used
4	SP-DIF Digital Output	Black RCA jack. Digital audio output line feed, S/PDIF.
5	AV Output Mini-DIN	Connects the set-top box to TV monitor via a special cable (provided). Cable includes S-video and audio/visual connections.

Table continues on page 33...



APPENDIX B: THE SET-TOP BOX

6	OUT to TV (RF)	This connection requires a coaxial cable terminated with F connectors. If the TV is connected with a coaxial cable, make sure it is set to channel 3. Note: Only one of the video outputs (Out to TV, Composite video, or S-video) should be cabled to TV. If multiple outputs are cabled to TV, video degradation may be observed.
7	TV Ant In (RF)	Allows RF modulated (UHF or VHF) video signals from an antenna input, cable box, or VCR to pass through the set-top box to the TV monitor.

Reverting Video Settings

If the set-top box is connected with any system video cable, and an inconsistent option button is selected on the Settings screen, the video image may appear distorted. To revert back to previous video settings on the remote (the default is no option selected), press the **Promos** button four times, then the **DTV** button once. To restore optimum video performance, return to the System Settings screen and select the proper video setting (setting should match video output cable choice).





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