

HDTV with DLP technology

High-Definition Television

User's Guide



# **Important Information**

### **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

RISK OF ELECTRIC SHOCK DO NOT OPEN Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



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



This symbol indicates important instructions accompanying the product.



This symbol indicates that the lamp in the HDTV contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage. FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

**Cable TV Installer:** This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

**Important:** This television is a table model and is designed to sit on a firm, flat, surface. Don't place the TV on soft carpeting or similar surface because the ventilation slots on the bottom of the unit will be blocked resulting in reduced lifetime from overheating. To assure adequate ventilation for this product, maintain a spacing of 4 inches from the top and sides of the TV receiver and 2 inches from the rear of the TV receiver and other surfaces. Also, make sure the stand or base you use is of adequate size and strength to prevent the TV from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the TV. Refer to the Important Safety Instructions packed separately.

## **Product Registration**

Please fill out the product registration card (packed separately) and return it immediately. For U.S. customers: Your RCA Scenium Consumer Electronics product may also be registered at www.rcascenium.com/productregistration. Returning the card allows us to contact you if needed.

### **Product Information**

Dealer/Address/Phone: \_\_\_\_\_

he serial and model numbers in case you need them. These numbers are located on the product.	
Model No	
Serial No	
Purchase Date:	

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record

# Thank you for choosing RCA Scenium

Congratulations on purchasing this RCA Scenium High Definition Television (HDTV) featuring Digital Light Processing<sup>™</sup> (DLP<sup>™</sup>) technology—a true viewing experience. Your purchase decision represents an investment in a new generation of technology— DLP and HDTV. Even though this is a technologically advanced HDTV, it is the most user-friendly of its kind— with comprehensive on-screen instructions that guide you through all of the TV's features.

This introduction has three parts that describe why an RCA Scenium HDTV featuring DLP technology is an excellent choice:

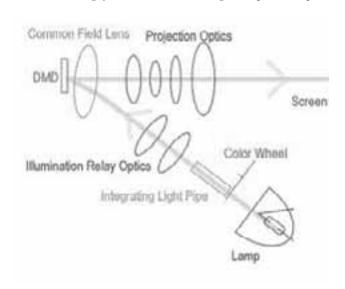
Part 1: DLP-brilliance in color, design, and technology

Part 2: Why RCA Scenium DLP is better

Part 3: Other Key Features of owning an RCA Scenium HDTV

## Part 1: DLP— brilliance, in color, design, and technology

RCA Scenium brings you brilliant pictures with Digital Light Processing (DLP) system — a brilliantly choreographed, engineering marvel that combines microscopic mirrors, light, and color to bring you the best and brightest pictures possible.





**EXAMPLE: Service Model Number sticker** with lamp type listed.

Model No	 
<b>Lamp Type</b>	 
Date	 

#### **How DLP Works**

In general, DLP combines microscopic mirrors, a specially designed semiconductor, and a color wheel to adjust light to display the most brilliant, accurate images! Your DLP HDTV doesn't use Cathode Ray Tubes (CRTs), which means you don't have to worry about screen burn (fixed video images burning onto the screen permanently) or convergence (realigning the CRTs). The diagram on the left illustrates the complex system.

### Thin and Light

The efficiency of DLP technology enabled our design team to create a high-performance HDTV that is about 16 inches thin and weighs less than 100 pounds.

### Lamp Replacement

DLP technology uses a special lamp. Eventually, you'll need to replace this lamp, which you can do yourself by following the replacement instructions on page 67. To order the correct lamp, you'll need to know your TV's model number, serial number, and lamp type—this information is listed on the Service Model Number sticker (example of the sticker is shown on the left). The sticker is located on the right side of the TV. The lamp type can also be found in the TV's *Lamp Power* menu. Go to page 62 for more information. For future reference, write down the information in the space provided at the left.

Digital Light Processing, DLP and DLP Cinema are trademarks of Texas Instruments. All other products and names may or may not be trademarks or registered trademarks of their respective companies.

## Part 2: Why RCA Scenium DLP is better

DLP is just part of the story. You have chosen to embark on the next generation of TV viewing— HDTV. There are many technological advancements that make HDTV better than analog TV, but there are basically three things about HDTV that bring you a superior viewing experience: (1) resolution, (2) aspect ratio, and (3) digital signal and sound.

### Resolution (it's math...that works for you)

The crisp, lifelike picture that people rave about when experiencing true HDTV is due to the resolution this technology provides. The resolution is measured by calculating the number of active lines of pixels. A pixel (which stands for picture element) is a small dot. The picture you see on your TV is composed of these dots.

A regular, analog television only has a resolution of about 200,000 pixels (480 vertical pixels x 440 horizontal pixels = 211,200 pixels). The HDTV format is capable of more than 2 million pixels (1,920 x 1,080 = 2,073,600).

More pixels equal more detail. In summary, HDTV is capable of resolution that is up to 10 times the resolution of the picture on a regular, analog TV!

Feature	Analog (NTSC)	HD Digital (ATSC)
Total Scan Lines	525	1125
Effective Scan Lines	480	1080
Aspect Ratio	4:3	16:9 (Widescreen)
Max Resolution	720 x 480	1920 x 1080
Sound	2-ch Stereo	5.1 ch Surround



16:9 Aspect Ratio



4:3 Aspect Ratio

### **Aspect Ratio**

Aspect ratio is simply the width and height of the picture. Regular TVs use a 4:3 aspect ratio, which means the picture is a little wider than it is tall (a screen that is 20 inches wide is about 15 inches tall).

When the standards were being developed for television broadcasting in 1941 by the NTSC (the National Television Standards Committee), it made sense to adopt the 4:3 aspect ratio the film industry was using at that time.

As TVs dropped in price and people prospered in the 1950s, the movie industry had to find a way to get people out of their living rooms and back to the movie theatres. That's when they created the 16:9 aspect ratio (also called widescreen format). When the standards for HDTV were being developed by the ATSC (Advanced Television Standards Committee), the 16:9 aspect ratio was chosen as the format for HDTV.

This widescreen format makes sense because it's much closer to the way we see. Our field of vision is actually much wider than tall because of our peripheral vision. Not only is it closer to the way we see, but the pictures are crisper and cleaner with more detail in the close-up and panoramic views.

### Digital Signal and Sound

The analog television broadcast system that has been used in the United States for the past 50 years transmits signals as electronic waves. These waves can suffer degradation as the signal travels to your home. Additionally, the analog waves are susceptible to interference from planes passing overhead, weather, and household appliances.

Digital signals, in contrast to analog signals, can be reproduced precisely because the images are transmitted and received using the computer language of 1s and 0s. Such precision yields a signal that is capable of displaying studio-quality picture and Dolby Digital 5.1 channel sound.

## Part 3: Other Key Features of owning an RCA Scenium HDTV

There are other HDTV's on the market- even some that use DLP technology. But your RCA Scenium HDTV has been designed with features that will enhance your TV viewing experience, and features that provide flexibility to build on the digital revolution that is taking place. A summary of your TV's most unique features follows. Go to Chapter 3 for more details on these and additional features.

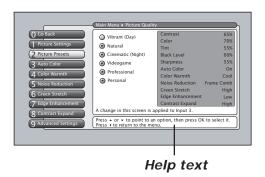
### Integrated HDTV Tuner with Digital Cable Ready QAM

RCA was the first to offer an integrated tuner with its HDTVs (which means there is no need for another box to receive digital programming). Now, we've gone one better—your HDTV's tuner is digital cable ready (no need for a cable box to view unscrambled digital cable programming). The CableCARD™ slot on your HDTV allows you to use a digital cable card to access digital cable. The tuner is able to decode all 35 formats of digital television broadcasts, and it can interpret unscrambled digital cable signals because it includes QAM (Quadrature Amplitude Modulation).

**Note:** A digital cable card may be necessary to view scrambled (encrypted) channels. Contact your cable provider for more information. Go to page 18 for more information.

## TruScan Digital Reality

The intelligent signal processing of TruScan Digital Reality recognizes incoming video signals and progressively converts them to achieve optimum digital picture performance. It also recognizes when original film sources have been modified and can automatically convert the analog frame rate back to its original format to bring out the detail--a process commonly referred to as reverse 3:2 pulldown.



### User-friendly Features Help You Personalize Your TV

- You can customize your TV to fit your viewing taste and match the lighting where you watch TV by using Personal Presets and/or the automatic picture quality settings: Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional. You can adjust each input jack to a different setting and the TV will automatically adjust the picture when you change inputs.
- Help Text: The elaborate, on-screen help text describes your TV's features and explains how to use them.

CableCARD is a registered trademark of Cable Television Laboratories, Inc.

# Introduction

### **Audio System**

Enjoy the great sound system in your HDTV with 30 watts total power. Your HDTV has front speakers with two 1" tweeters and two 5" midrange drivers. A 7-band on-screen graphic equalizer allows customization of the sound quality.

You can take advantage of the 6-Channel direct Audio Outputs (Matrix Surround, Subwoofer, etc.) if you have an amplifier you want to connect to your HDTV. Then choose to control the volume from the TV or the amplifier in the *Fixed/Variable Output* option in the *Audio Connections* menu. If you own an amplifier with digital audio, connect to the DIGITAL AUDIO OUTPUT jack instead.

### Audio/Video Output Jacks

Because the VCRs in most households are analog and can't receive or record digital TV signals, recording digital TV broadcasts wasn't possible without purchasing additional equipment. That's why RCA added AUDIO/VIDEO OUTPUT jacks to this HDTV. These jacks enable you to record both analog and digital programs. RCA understands how you watch TV and what's necessary to make the transition to HDTV seamless.

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# **Chapter Overview:**

- Things to Consider Before You Connect
- Choose Your Connection
- Explanation of Jacks and Cables
- The Front of Your TV
- How To Connect
- Plug in the TV
- Put Batteries in the Remote
- Turn on the TV
- Use the Remote Control to Complete the Assisted Setup
- Complete the Assisted Setup
- Next Steps



## **Choose Your Connection**

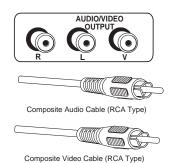
There are several ways to connect your HDTV, depending on the components you want to connect and the quality of the signal you want to achieve. Please use the following chart to determine which connection is best for you. Proceed to the appropriate page and connect your TV. For more information about the relationship between the cables, jacks, and the quality of the signal you see on your TV, go to the following page.

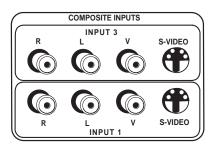
**Note for U.S. Customers:** If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359. For additional assistance while using your RCA Scenium product, please visit <a href="www.rcascenium.com/customersupport">www.rcascenium.com/customersupport</a>.

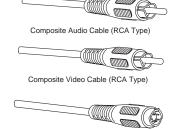
Components	Cables Needed	Connection Title	Go to
Video Connections  N  N  N  N  N  N  N  N  N  N  N  N  N	Coaxial Audio Component Composite	TV + VCR + DVD Player	page 15
TV Satellite Receiver VCR	Coaxial Audio Composite S-Video	TV + Satellite Receiver + VCR	page 16
Digital/Network Connections  TV Component with  Component HDMI  DVI or HDMI	Coaxial HDMI (or DVI with HDMI/DVI adapter)	TV + Component with DVI or HDMI	page 17
TV CableCARD <sup>TM</sup>	Coaxial	TV + CableCARD™	page 18
Audio Connections  AN  AN  Receiver  Speakers	Coaxial Optical cable or Audio cables Speaker wire	TV + A/V Receiver + Speakers or TV + Receiver w/ Dolby Digital + Speakers	pages 19, 20

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S-Video Cable

**AUDIO/VIDEO OUTPUT** Connect a VCR or DVD-recorder to record digital and analog programs from the Cable or Antenna Input (excluding copyprotected programs and component video formats) while the TV is turned on. You must leave the TV on the same channel you are recording.

- R Audio provides right audio connection and connector is usually red.
- L Audio provides left audio connection and connector is usually white.
- V (Video) provides composite video connection and connector is usually yellow.

**Notes:** When recording from this output, remember to tune to the channel you want to record.

If an unusual pattern appears when you connect a VCR to these jacks, playing a tape or switching to the VCR's tuner removes the pattern.

#### **VIDEO/AUDIO INPUTS**

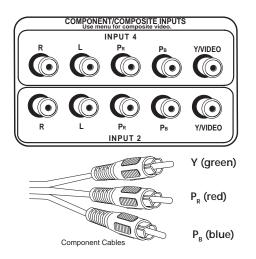
**INPUT 1 COMPOSITE INPUT** Connect an NTSC (analog) component. These jacks are used for most audio/video connections between components. The audio/video jacks are often color coded (yellow for video, red for right audio, and white for left audio).

- R Audio provides right audio connection and connector is usually red.
- L Audio provides left audio connection and connector is usually white.
- **V (Video)** provides composite video connection and connector is usually yellow.
- **S-VIDEO** lets you connect an S-Video cable for better picture quality to a component with S-Video capability, such as a VCR or DVD player. When using S-Video, make sure to connect the two audio cables as well as the S-Video connector.

The S-Video jack provides better picture quality than the composite video jacks because the color (chrominance, also called chroma) part of the signal is separated from the black and white (luminance) part of the picture.

**INPUT 3 COMPOSITE INPUT** Provides connection to a second NTSC (analog) video component such as a VCR. The jacks are the same as described above for INPUT 1.

Chapter 1 11



Tip

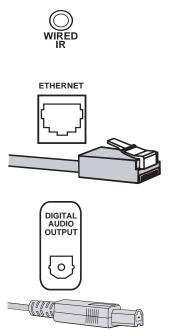
Inputs 2/4 can be used as either a component video  $(YP_BP_R)$  input or a composite video (Y/Video) input. Go to the Connections menu, choose Video Input Setup and select which video input source you are using.



- R Audio provides right audio connection and connector is usually red.
- L Audio provides left audio connection and connector is usually white.
- Y/Video P<sub>B</sub> P<sub>R</sub> Unlike a single video input, component (Y P<sub>B</sub> P<sub>R</sub>) video maintains the video signal as three separate parts through these three jacks. To ensure maximum picture quality, use three video-grade cables for the Y P<sub>B</sub> P<sub>R</sub> connections. Accepts 480i, 480p, 720p, and 1080i signals. If you're connecting to a component with a Video jack instead, you can still use the Y/Video jack. Go to the *Connections* menu, select *Video Input Source* and choose *Composite video* as your source. Go to page 57 for more information.

**Notes:** Also, remember to connect the left and right audio cables because the Y, Pb, Pr cables carry only the picture signal, not the sound. PIP can only be displayed from component inputs in 480i format.

**INPUT 4 COMPONENT/COMPOSITE INPUT** Provides connection to a second optional component video source, such as a DVD player or satellite receiver. The jacks are the same as described above for INPUT 2.



**WIRED IR** This jack is for connecting a wired remote control system, which is primarily for professional installers. If you're using the remote that was included with your TV, don't plug anything into this jack or the TV won't respond to the remote.

**ETHERNET** Connect a router, cable modem, or Digital Subscriber Line (DSL) modem to the TV using an Ethernet cable (CAT 5) for a possible software upgrade. Go to page 57 for more information on software upgrades. Do not connect a telephone cable because of risk of fire or shock. A green light on the jack means that an active network has been detected. An orange light on the jack means the data is either being sent or received.

**DIGITAL AUDIO OUTPUT** Use a digital optical cable (or SPDIF cable) to connect your TV to a compatible Dolby Digital or PCM receiver or decoder. Dolby Digital offers theatre-quality sound (six audio channels). If you own a receiver that uses an optical cable input, you can use an optical cable to connect the TV to that receiver for the best sound quality. Go to the *Digital Audio Out* screen in the *Audio* menu to select *Auto Select* or *PCM* as the output for this jack.

**Note:** This TV's optical digital output jack fully complies with the international standard governing this type of jack (IEC958), and is designed for connection to a Dolby Digital (AC-3® or PCM) receiver or decoder. Older equipment, some of which is not fully compliant with IEC958, may not be compatible with the Dolby Digital bitstream. Such a connection using anything other than a Dolby Digital (AC-3 or PCM) receiver or decoder could create a high noise level, causing damage to headphones or speakers.





CABLE

ANTENNA INPUT



**CableCARD** Allows you to use a digital cable television card to receive digital cable services, including premium and HDTV cable channels, without the need for a set-top box. Go to page 18 for information on using the CableCARD slot.

**HDMI/DVI INPUT** (High-Definition Multimedia Interface/Digital Visual Interface) Provides an uncompressed digital interface that carries both video and audio data by way of an integrated mini-plug cable. Since HDMI is based on Digital Visual Interface (DVI), the jack on the back of your TV is also compatible with DVI components.

**Note:** If you connect a component with a DVI jack to the HDMI/DVI input, you'll need an HDMI to DVI adapter. Also, connect the left and right audio cables to an input that is not in use. An example is shown on page 17. Then go to the Audio Connections menu and select DVI Audio Input to choose the input you're using to receive audio.

**CABLE INPUT** Used to connect a coaxial cable to receive the signal from cable or a cable box.

**ANTENNA INPUT** Used to connect a coaxial cable to receive the signal from an off-air antenna.

Chapter 1 13

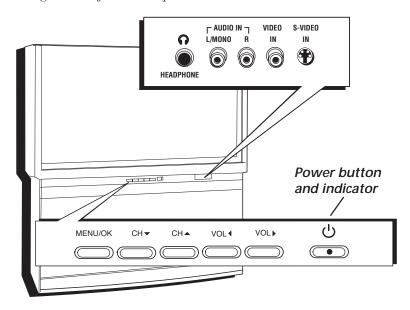
### The Front of Your TV

## Front Input Jacks

The TV has front input jacks for convenience in connecting a camcorder, digital camera, or video game system. Look for a hinged door and press to open the cover. Please note the illustration below is just an example of how these jacks might appear.

**Notes:** When you plug in headphones, the TV's internal speakers are muted. Use the VOL up or down button to control the volume.

When connecting a component that uses a monaural cable, such as some camcorders, use the L/MONO input jack to get sound from both speakers.



Power	Indicator Light Status
On	TV is on
Off	TV is off (standby mode)
Blinks	Light blinks 5 times, pauses, and blinks again 5 times: Lamp is trying to turn on. If the TV doesn't turn on after 5 minutes and then the light blinks steadily for one minute, one of the following options is possible:
	Lamp door is open. Locate the door on the side of the TV and close it. Turn off the TV and turn back on. The lamp should turn on.
	Lamp is dead. You can replace the lamp yourself following the instructions on page 67. Go to page 72 for ordering information.
	Lamp power supply within TV may need service. Go to page 73 for warranty information.

**Notes:** The front panel illustration shows a typical front panel layout. The exact look may be different from the one on the front of your TV.

If you use the Front Button Block feature, the front panel no longer provides access to the menus. The Front Button Block feature disables all front panel buttons but not the jacks. For more information, see Chapter 3.

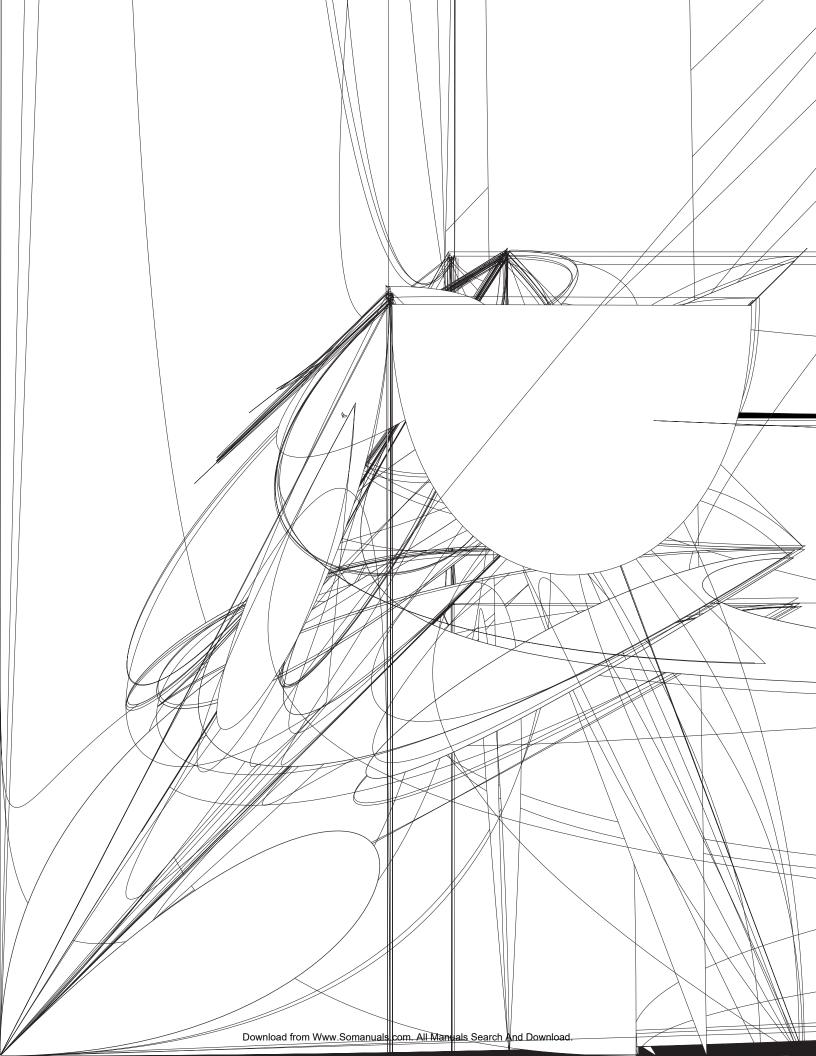
### **Front Panel**

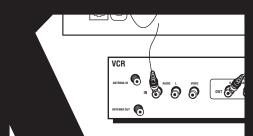
If you cannot locate your remote, you can use the front panel of your TV to operate many of the TV's features.

**MENU/OK** Brings up the Main menu. When the menu system is displayed, pressing MENU/OK selects highlighted items.

- **CH** ▼ Scans down through the channel list. In the menu system, it moves the highlight down and adjusts menu controls.
- **CH** Scans up through the current channel list. In the menu system, it moves the highlight up and adjusts menu controls.
- **VOL ◆** Decreases the volume. In the menu system, it moves the highlight left to items and adjusts menu controls.
- **VOL** Increases the volume. In the menu system, it moves the highlight right to items and adjusts menu controls.

(Power button and indicator) Turns the TV on and off. The indicator lights when TV is on. Your HDTV's lamp has a cool-down period when the TV is turned off, and a warm up period when the TV is turned on. If you try to turn the TV on during a cool-down, you will hear audio and then the picture will be displayed after a few moments. This could take up to one minute. For different light status of the indicator, see above.





## + Satellite Receive

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VCR R's

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## Components

TV and the compone

button on the remote co

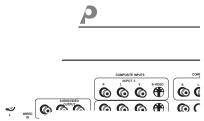
PUT button on the remote co

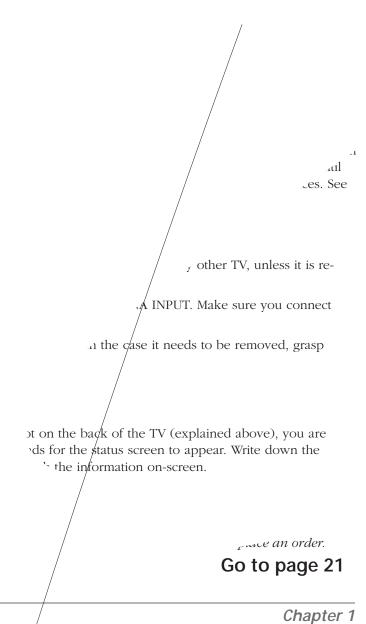
e VCR on the INPUT 1 channel.

e satellite receiver on the INPUT 3 ch

in set up the TV to automatically tune to r more information.)







### **Audio Connections**

With the audio versatility of your HDTV, you can choose various connection options depending on the type and quality of sound that you want. From good to best sound, choose one of the options or refer to the user's manual of each component that you are connecting to get the best results.

- Use your TV's internal speakers (good sound).
- Connect audio/video receiver (speakers connected to receiver) to your TV (better sound).
- Connect audio/video receiver (speakers connected to receiver) to your TV using the digital audio output jack (best sound).

### How to Connect: TV + A/V Receiver + Speakers

- 1. Connect the FIXED/VARIABLE AUDIO OUTPUTS from the TV to an A/V receiver using audio cables for 6-channel matrix surround sound.
- 2. Be sure to go to the *Fixed/Variable Out* screen in the *Audio Connections* menu and select whether you want the FIXED/VARIABLE AUDIO OUTPUT jacks to send fixed or variable volume audio.
  - *Fixed Output* provides fixed-level audio output from the TV. This audio output is ideal for connecting to an A/V receiver that has its own volume control.
  - Variable Output provides variable-level audio output. Volume levels are controlled by the TV's volume.
- 3. If you connect the SUBWOOFER jack, be sure to go to the *Fixed/Variable Out* screen in the *Audio Connections* menu and select *Yes* for connecting to an external subwoofer.
- 4. Use speaker wire to connect the audio/video receiver to your external front and rear speakers. Refer to your audio receiver manual to complete speaker hookup to the receiver.

### OR

## How to Connect: TV + Receiver with Dolby Digital + Speakers

If you own a receiver with Dolby Digital\* or PCM (Pulse-Code Modulation) that uses an optical cable-type input, connect an optical cable for excellent audio quality (shown on opposite page).

- 1. Connect one end of the optical cable to the DIGITAL AUDIO OUTPUT jack on your TV and to the Digital Optical Input jack on your receiver/amplifier receiver.
  - If your receiver can decode Dolby Digital and PCM, go to *Audio* menu, select *Audio Connections*, then *Digital Audio Output*. Select *AutoSelect* (recommended) or *PCM*.
  - If your receiver can decode only PCM, select PCM.
- 2. Use speaker wire to connect the audio/video receiver to your external front and rear speakers. Refer to your audio receiver manual to complete speaker hookup to the receiver.

**Note:** If you want to use your TV's internal speakers as the Center Channel speaker, use speaker wire to connect the audio receiver's Center Speaker Output to the TV's CENTER SPEAKER INPUT. Set the Center Speaker Input option in the Audio Connections menu to The center channel output from an audio receiver option.

## Go to following page for connection diagram

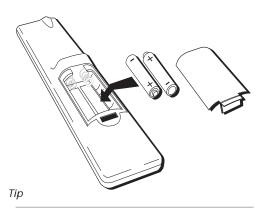
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<sup>\*</sup>Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

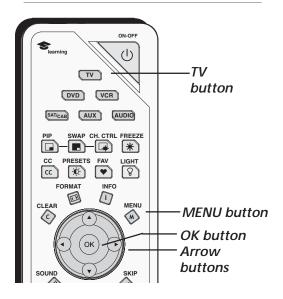
# Plug in the TV

Plug the flat end of the cable into the power jack on the back of the TV. Then plug the other end of the power cord into an appropriate wall outlet. Be sure to insert the plug completely. Do not plug the TV into an outlet controlled by a light switch.

**Note:** When you first plug your TV into an outlet, the Power indicator on the front panel will light and blink for approximately 30 seconds and then go off during the initialization of the TV. The TV can only be turned on after the Power indicator goes off. This happens every time the TV is unplugged and plugged back in.



When remote batteries are low, the component button corresponding to the mode you're in flashes when you press a button. Also, a message might appear on the TV screen and disappear within a few seconds. Press CLEAR and replace the batteries to remove the message.



Tip

To access the setup menus, press MENU and choose Assisted Setup.

## Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote by pushing down on the tab and lifting cover.
- Insert 2 fresh "AA" batteries. Make sure the polarities (+ and -) are aligned correctly with the polarities inside the remote.
- Replace the cover.

## Turn on the TV

Press TV on the remote, or press the Power button on the TV's front panel.

**Note:** Pressing the TV button turns on the TV and puts the remote into TV mode. "TV mode" means that the buttons on the remote control operate the TV's functions.

# Use the Remote Control to Complete the Assisted Setup

The technical term is "Navigation" – how you move through the on-screen menus. The method is the same throughout the menu screens: highlight your choice and select it.

To highlight a menu item, put the remote into TV mode by pressing the TV button then MENU. Press the arrow buttons on the remote to highlight one of the items listed in the menu. Use the up or down arrow button to move up or down. Use the right or left arrow button to move right or left.

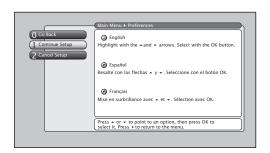
To select the item that you've highlighted, press OK.

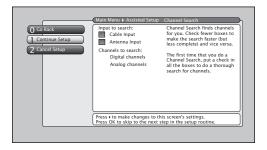
**Note:** Highlighted means that the menu item stands out from other menu items on the list (appears darker, brighter, or a different color).

## **Complete the Assisted Setup**

Your TV's menu system allows you to adjust your TV's features to be configured to work properly. On-screen information helps you choose settings to match your setup. The first time you turn on your TV, the *Assisted Setup* screens appear automatically. Select *Begin Setup* to start or select *Cancel Setup* to exit.

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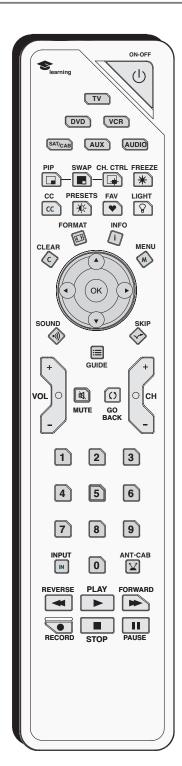


### Tip

The first Channel Search takes several minutes if the TV is searching for analog and digital channels and cable and antenna inputs are being searched. You may want to leave and come back later.

# **Chapter Overview:**

- · The Buttons on the Remote Control
- Programming the Remote to Operate Other Components
- How To Use the Remote After You've Programmed It
- The Learning Feature
- Volume Punchthrough Feature
- Using the INPUT Button
- Remote Code List



## The Buttons on the Remote Control

**Arrows (up, down, left, right)** Used to move through the on-screen menus. When not in the menu system, moves the PIP window. Go to page 44 for more information on PIP.

**(0-9) Number Buttons** Enter channel numbers and time settings. Also used in the TV menu to make selections.

**ANT • CAB** Switches between Antenna and Cable Input. In VCR mode, functions as a TV/VCR button. In SAT mode, functions as a TV/SAT button for an RCA satellite receiver. When tuned to an input, press to go back to the most recently used tuner (Antenna or Cable Input).

**AUDIO** Places the remote in audio mode to operate a component (such as a audio receiver, CD player, or amplifier receiver) that you've programmed to work with this button.

**AUX** Places the remote in auxiliary mode to operate a component (such as a cable box, satellite receiver, VCR, DVD, or audio receiver) that you've programmed to work with this button. AUX by default is set up for a second RCA VCR.

**CC (Closed Captioning)** Toggles closed captioning on and off, if available for the channel you're tuned to. When you change channels or inputs, the default for Caption Display is restored.

**CH + or CH –** Scrolls up or down through the channel or input list. Press once to change the channel up or down; press and hold to continue changing channels.

**CH CTRL (Channel control)** Toggles the channel control between the main TV picture and the PIP window. Use channel up, channel down, INPUT, component buttons, or number buttons to change channels in PIP. CH CTRL is marked by a triangle ( $\triangleright$ ) in the banner.

**CLEAR** Removes on-screen menus and displays. Cancels the commercial skip timer.

**DVD** Places the remote in DVD mode. If Auto Tuning is enabled, pressing the DVD button turns on the TV and tunes to the correct Video Input Channel.

**FAV (Favorite)** This button doesn't have a function for your TV.

**FORMAT** Toggles through the 4:3 video screen formats (Normal, Zoom, Stretch, Cinerama, and Auto Format) for some 4:3 signals—not applicable to 16:9 signals.

**FREEZE** Freezes entire screen, including the main picture and PIP window, if PIP is displayed. When recording from VIDEO OUTPUT, freezes digital, but not analog channels.

**GO BACK** Returns you to the previous channel or previous screen in the menu system. Also, toggles between antenna and input sources.

**GUIDE** If you're controlling another component that has a guide, this accesses the on-screen guide.

#### Tips

The component button corresponding to the mode you're in flashes when the remote batteries are low and you press a button on the remote. Also, a message might appear on the TV screen and disappear within a few seconds. Press CLEAR and replace the batteries to remove the message.

To turn off most RCA components that are connected to the TV, press ON•OFF twice within two seconds and hold remote steady until indicator turns off.

**INFO** Brings up the Channel Banner with channel and viewing information. Press again to remove the banner.

**INPUT** Toggles through the TV's available input sources (INPUT 1, INPUT 2, INPUT 3, INPUT 4, Front Input, HDMI/DVI, and last-active channel). To quickly access an input, press the INPUT button and the input number, for example, INPUT + 1 to access INPUT 1.

**LIGHT** Press to illuminate the remote control's buttons. To conserve battery power, the light turns off after several seconds. Backlight won't activate if batteries are low, but blinks on and off quickly.

**MENU** Makes *Main Menu* appear and disappear.

**MUTE** Reduces the TV's volume to its minimum level. Press again to restore volume. The TV *Audio Output* menu must be set to *Variable Level, Speakers On* to control the TV's volume.

**OK** When a menu item is highlighted, press OK to select the item.

**ON•OFF** Turns the TV on or off. Your HDTV is equipped with a special lamp system. In order to preserve the life of the lamp, the TV must warm up and cool down properly when you turn the TV on and off. When you turn the TV off, the screen turns blue and fades to black. While the screen is blue, you can still turn the TV back on. If the screen is black when you try to turn it on, the TV's lamp is in its cool-down cycle. The TV's audio comes on, then the picture is displayed after a few moments.

In other modes (VCR, DVD, SAT/CAB, AUX, AUDIO), and if programmed, turns the component on and off.

**PIP** Makes the PIP window appear and disappear (See Chapter 3 for more information about using PIP).

**PRESETS** Toggles through the Picture Presets for the input currently tuned to. The preset is only temporarily changed and goes back to the original menu setting when you change channels or inputs or turn off the TV.

**REVERSE, PLAY, FORWARD, RECORD, STOP, PAUSE** If programmed, provides transport control for some remote-controllable VCRs and CD and DVD players.

**SAT/CAB (Satellite/Cable)** Places the remote in SAT/CAB mode. If Auto Tuning is enabled, turns on the TV and tunes it to the correct Video Input Channel.

**SKIP** Press once before changing channels and the TV returns to the original channel after 30 seconds. Press repeatedly to add more time. Press CLEAR to cancel.

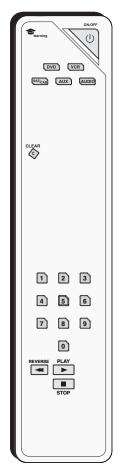
**SOUND** On digital channels/inputs, toggles through the audio modes (if available for that channel). For analog channels, toggles SAP on or off. If you change channels/inputs, the default for Audio Mode is restored. Does not affect default menu settings for *SAP* or *Audio Mode*.

**SWAP** When using PIP, switches the main picture with the PIP window.

**TV** Places the remote in TV mode. Turns on the TV and tunes to the last-viewed TV channel or input.

**VCR** Places the remote in VCR mode. If Auto Tuning is enabled, turns on the TV and tunes to the VCR Video Input Channel.

**VOL – or VOL +** Decreases or increases the TV's volume. The TV *Audio Output* menu must be set to *Variable Level, Speakers On* to control the TV's volume.



You'll use these buttons when you program the remote for other components.

Important Note: The remote may not be compatible with all models of all brands of components. It also may not operate all functions of your component.

### Tip

By default, the AUX button is programmed for a second RCA VCR. If auto tuning is set up, it will tune to VCR2 input channel.

# Programming the Remote to Operate Other Components

The universal remote can be programmed to operate many brands of remote-controllable VCRs, audio components, DVD players, cable boxes, satellite receivers and other components. In addition to being programmed to operate your television, it's already programmed to operate most RCA components.

The AUX button can be programmed to operate most brands of an additional remote-controllable component: satellite receiver, cable box, DVD, VCR, and an audio component. A second and third RCA TV can be programmed to any component button, except the TV button. Go to page 58 for more information on programming the remote to another TV.

**Note:** The TV button can't be programmed on this remote to control any component; it controls only this TV.

## Find Out If You Need to Program the Remote

To determine whether the universal remote needs to be programmed to operate one of the components connected to your TV, such as a VCR, do the following:

- 1. Turn on the component (in this example, a VCR).
- 2. Point the remote at the component.
- 3. Press the corresponding component button (in this example, VCR).
- 4. Press ON•OFF to see if the VCR responds. If the VCR doesn't respond, you need to program the remote to operate it.

## **Programming the Remote**

There are two ways to program the remote control to operate other components: *Automatic Code Search* and *Direct Entry*.

### **Using Automatic Code Search**

**Note:** The AUX button can only search VCR codes, but can be used for a non-VCR device by programming it with direct entry method.

The following instructions can be used to program the remote to operate each of your components. If you want to stop the automatic code search without programming any of your components, press and hold CLEAR until the indicator on the remote turns off.

- 1. Turn on the component you want to operate (VCR, DVD player, etc.)
- 2. Press and hold the component button you want to program (VCR, DVD, etc.). While holding the component button, press and hold ON•OFF until the component button on the remote turns on, then release both buttons.
- 3. Point the remote at the component.

4. Press and release PLAY, then wait 5 seconds or until the component button stops flashing.

At this point the remote is searching for the correct code to program. If, after 5 seconds, the component you want to operate does not turn off, press PLAY again to tell the remote to search the next set of codes.

Continue pressing and releasing PLAY until the component turns off or you have searched through all of the codes. The component buttons flash when all codes have been searched, the component button turns off, and the remote exits Automatic Code Search.

If the component you want to control does turn off:

- 1. Press and release REVERSE, then wait 2 seconds. Repeat this step until the component turns back ON.
- 2. To finish, press and hold STOP until the component button on the remote turns off.

### **Using Direct Entry**

- 1. Turn on the component you want to operate (VCR, DVD player, etc.)
- 2. Look up the brand and code number(s) for the component on the code list in this section.
- 3. Press and hold the component button you want to program on the remote.
- 4. Enter the 4-digit code from the remote control code list on the following pages. If the indicator flashes, you have either entered an invalid code or the button isn't programmable.
- 5. Release the component button, point the remote at the component, and then press ON•OFF to see if the component responds to the command. If it doesn't, try pressing the component button and then ON•OFF again.
- If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote commands.
- If you try all the codes for your component brand and none work, try the automatic code search method. If automatic code search doesn't find the code, the remote is not compatible with your component.

# How to Use the Remote After You've Programmed It

Because this universal remote can control several different components (TV, DVD, VCR, satellite receiver, etc.), it uses operational modes triggered by the component buttons.

- 1. Press the appropriate component button (DVD, TV, VCR, SAT/CAB, AUDIO, AUX) to set the remote to control the component.
- 2. Press ON•OFF to turn the component ON or OFF.
- 3. Use the remote buttons that apply to that component.

**Notes:** The remote control may not be compatible with all brands and models of components.

If you keep pressing buttons and nothing happens, the remote is probably in the wrong mode. You must press the component button that matches the component you want to operate (i.e., if you want to operate the VCR, press VCR on the remote control to put the remote in VCR mode.)

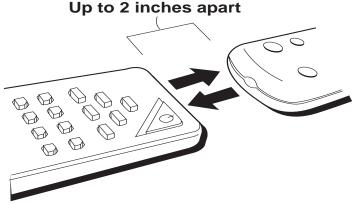
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# The Learning Feature

Before using the learning feature, make sure this TV's remote control is programmed to control other components you have connected to the TV. Programming the remote control erases all learned commands for that component mode.

After you program the TV's remote control to operate the other component, the TV's remote provides most of the operations you need. However, there may be some functions on the component's original remote control that your TV's remote control doesn't have. For example, your DVD remote control might have an ANGLE button that enables you to change the angle of the picture, but your TV remote doesn't have that button. The learning feature enables you to record the functionality of a specific button from the original remote control to one of the TV's remote control buttons.

**Note:** All learned functions for a mode can be erased if you program a different component to that mode.



## Adding a Learned Function

There are several things to consider before you begin the learning process:

- You can't record a learned function to the following buttons on the TV's remote control: component buttons (TV, VCR, DVD, SAT/CAB, AUX, and AUDIO), the CLEAR button, and the LIGHT button.
- Before adding a Learned Function, you must program this TV's remote control to operate that component because programming the remote control erases all learned commands for that component mode.
- Do the learning process in low light areas because too much natural light or fluorescent light might cause the learning feature to fail because the remote control functions are recorded (learned) by sending infrared (IR) signals.
- The TV's remote and the original remote should be no more than 2 inches apart.
- In order to record (learn) a function from one remote to the other, you must make sure the Infrared (IR) transmitter of the original remote is facing the IR receiver on the top of the TV's remote (see illustration). To accomplish this, you may have to hold a remote in each hand instead of laying both on the table.
- The learned buttons are mode specific—if you add a button function from your DVD player's remote control, you must press the DVD button first before the learned function will work (in TV mode, the button where you've stored the learned function won't be affected and will continue to work as it always has).

- 1. Press and hold the component button on the TV's remote that applies to the function you will be adding (DVD, VCR, SAT/CAB, AUDIO, or AUX). The component button lights.
- 2. On the TV remote, press and hold the RECORD button.
- 3. Keep pressing both of the buttons (the component button and the RECORD button) until the component button light turns off, flashes, and turns off. Release both buttons.
- 4. On the TV's remote control, press and release the button where you want to store the new function (the component button turns off and then back on).

**Note:** If you press an invalid button on the TV remote, the component button flashes 4 times to alert you. You'll have to repeat step 4.

- 5. With the remote controls facing each other and no more than 2 inches apart, press and hold the button of the component's remote control that has the functionality you are recording to the TV's remote control. Keep pressing the button until the TV remote's component button light turns off and back on (the function has been saved to the TV remote). If all component buttons flash 4 times, the function wasn't learned. Try again starting with Step 4.
- 6. The TV remote control remains in "learning mode" so you can continue adding functions to different buttons by repeating steps 4 and 5. Or, press CLEAR to exit learning mode.

Notes: If you want a new function on a button, you must record (learn) over it.

The amount of memory each learned function uses in the TV's remote control varies. If your TV remote is out of memory, the component button(s) light flashes 4 times and turns off, exiting you from the Learning mode.

## Clearing a Learned Function

To delete a learned button function, use the procedure below.

- 1. Press and hold the component button (the component button lights). Then press and hold the CLEAR button for 3 seconds. Continue pressing both buttons (the component mode button flashes—turns on and off again).
- 2. Release the component and CLEAR buttons (the component button being programmed turns on). The remote is now in Clear learned function mode.
- 3. Press and release the button where learning is to be cleared. The component button blinks off then back on—the learned function was cleared successfully.
- 4. Repeat steps 1 through 3 until all buttons' learned functions have been cleared.

**Note:** If an invalid button is pressed, the component mode button(s) flashes 4 times and the selected component button stays on and the remote remains in Clear Learned Function mode. Repeat step 3.

5. Press the CLEAR button and your TV remote returns to its original operation mode.

## **Deleting ALL Learned Functions**

This procedure erases all learned functions in every component mode of the remote.

- 1. Press and hold the CLEAR button (the current component button lights). Then press and hold the ON•OFF button (component button light turns off for 3 seconds, flashes, turns on and off) while continuing to hold CLEAR.
- 2. Release both buttons (current component button turns on).
- Press any component button to delete all learned functions in all modes. The remote is automatically exited from this mode.

Note: Pressing the CLEAR button will NOT delete all learned functions, but will exit the Delete mode.

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# Volume Punchthrough Feature

You may find this feature helpful if you've connected your components to an audio/video receiver (A/V receiver) or amplifier, but you want to use the TV's remote control to operate the volume for the receiver. An example follows:

Let's say you've connected your DVD player to your audio/video receiver. You've also programmed your TV remote control to operate your DVD player. Since the DVD player gets its volume through the audio/video receiver, you would have to bounce back and forth between two remote controls: the A/V receiver's remote to adjust the volume and the TV's remote control to operate the DVD player.

The Volume Punchthrough feature eliminates the need for you to use two remote controls and saves a button press when you're using the TV remote to adjust the volume. In effect, you are telling the TV remote to retrieve and send volume commands from the A/V receiver whenever the TV remote is in DVD mode.

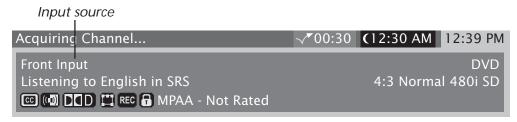
Therefore, after you've successfully set up the Volume Punchthrough feature, whenever the TV remote is in DVD mode (press the DVD button) and you want to adjust the volume, you only have to press the VOL + or VOL- buttons. Follow the instructions below to set up Volume Punchthrough.

- 1. IMPORTANT: First, you must program the AUDIO button on the TV's remote control to operate your audio receiver or amplifier. Go to page 26 for instructions. If you can't program this remote to operate your audio receiver, Volume Punchthrough won't work.
- 2. While setting up Volume Punchthrough, it's best to point the remote away from components.
- Decide which mode the remote will be in when the volume from the audio receiver "punches through." The mode will be one of the component buttons (TV, DVD, SAT/CAB, VCR, or AUX).
- 4. Press and hold the VOL- button. Keep pressing VOL- while you press and release the component button you chose in step 3 (TV, DVD, SAT/CAB, or AUX).
- 5. Press and release the AUDIO button since the sound will be coming from the audio/video receiver. Release the VOL- button.
- 6. Now, test it by turning on your audio receiver or amplifier.
- 7. Turn on the component that is connected to the audio/video receiver or amplifier (a DVD player, for example).
- 8. Put the TV's remote in DVD mode by pressing the DVD button, and play a disc.
- 9. Press VOL+ or VOL-. The volume from the audio receiver should increase or decrease accordingly.

## **Deleting ALL Volume Punchthrough Commands**

To delete all programmed Volume Punchthrough settings and return the remote control back to the factory defaults, press and hold the VOL- button (the component button of the Volume Punchthrough lights). While holding the VOL- button, enter **000** using the number buttons. All component buttons turn on for 2 seconds and then turn off. The remote returns to the factory settings.

**Note:** If an invalid button is pressed, all component buttons blink 4 times and turn off. At this point, you must start over.



Note: Watch the Channel Banner to see the input sources change each time you press the INPUT button.

# **Using the INPUT Button**

- 1. Repeatedly press the INPUT button to scroll through the available input sources until you find the input associated with the component (such as VCR or DVD player) you want to view.
- 2. Once you find the input source you want, stop pressing INPUT.
  - If you tune to INPUT 1 and your VCR is connected to that input, you will be able to view your VCR. To play, stop, or rewind the VCR tape using the remote that came with your TV, you must first press the VCR or AUX button (whichever one is programmed to the VCR) to put the remote control in VCR mode.

There are other ways of selecting a Video Input Channel:

- Program the component (VCR, DVD, etc.) buttons on the remote control to automatically tune to the correct Video Input Channel when pressed. For more details on Auto Tuning, see Chapter 3.
- When viewing an input, press ANT/CAB, GO BACK, or INPUT to go back to viewing channels or
  use the number buttons to enter the channel number.
- To quickly access an input, press the INPUT button and the input number, for example, INPUT + 1 to access INPUT 1. **Note for professional installers:** This is a discrete input code.

Phono

## **Remote Code List**

#### **Audio Codes**

Programmable for the AUDIO and AUX buttons.
AUX/Dimensia/Lyra Wireless
RCA 4004
Audio Cassette
GE
RCA
CD Players
ADC
Aiwa
Akai
Denon
Emerson
Fisher
GE
Hitachi
JVC
Kenwood
Luxman
Marantz
MCS
Mitsubishi
NEC
Onkyo
Panasonic
Pioneer
RCA
Sears
Sony
Technics
Toshiba
Yamaha

GE	
RCA	
Receiver/Tuner/Al	
	4008. 4009, 4010, 4011, 4012, 4021
	4016, 4017, 4025
Yamaha	
Cab	le Box Codes
Drogrammable for	SAT/CAB and AUX buttons.
	5002, 5003, 5004, 5006, 5045
	5008, 5009
	5007
	5015
	5016
	5002, 5003
	5017, 5018
Comonal Instrumento	

Hitoob:	5003
	, 5017, 5022, 5023, 5039, 5045
	5025
	5005
	5015, 5027
	5041, 5044
Рпшрѕ	5011, 5012, 5013, 5014,
	. 5018, 5024, 5028, 5029, 5030
	5031, 5032
	5002, 5003
	5007, 5040, 5042, 5044
	5009
Samsung	5032
	5006, 5034, 5035, 5036
	5003
	5044
	5037, 5038
	5017, 5045
	5017
	5004, 5022
	5045
	5008, 5009, 5010
	5015, 5024, 5025
	5043
HD Rece	iver Code
Programmable for AUX	button.
	=000

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# TV Codes Home Theatre in a Box (DVD Receiver) Codes

Programmable for DVD	VCR,	SAT/CAB,	AUX,
and AUDIO buttons.			

TV2	 1222
TV3	1223

### **DVD** codes

DVD	e for DVD and AUX button		
Aiwa		3010,	302
Apex		3023,	3024
Broksonic		3027.	307
	3029,		
Funai		,,,	303
GF		3034	303
Go Video		,00,1,	307
Hitachi		3060	307
IVC	3003, 3007, 3008, 3	3005, 3011	3079
Lasonic			208
Memorex			505
	3006, 3043, 3		
Proscan		3000,	3040
Qwestar			3047
RCA	3000, 3002, 3048, 3	3079,	3080
	3072, 3073. 3074, 3		
Sansui	•••••		3049
	3050,		
	3007, 3016, 3017, 3054, 3055,		
Toshiba	3008, 3018, 3059, 3	3060	306
Vamaha		3063	306
Portable DVD		,000	300
			202
	3		
Sharp			305

#### **DVD/VCR Combo Codes**

DVD and AUX buttons can use DVD codes; VCR and AUX buttons can use VCR codes

	DVD	VCR
Broksonic	3075	2075
Emerson	3076	2076
Go Video	3077	2077
JVC	3078	2078
RCA	3079	2079
Samsung	3080, 3081 2080,	2081
Sanyo	3082	2082
Sony	3083	2083
Zenith	3084	2084

### **PVR Codes**

 AUDIO and AUX buttons can use Audio codes; DVD and AUX buttons can use DVD codes

•••••	Audio	DVD
JBL	4031	3088
JVC	4032	3089
Koss		
Onkyo	4034	3091
Panasonic		
Pioneer		
RCA		
Venturer		

### **Satellite Receiver Codes**

Programmable for SAT/CAB and AUX buttons.		
Alphastar	5064	
Chapparal		
Dishnet		
Drake	5048, 5049	
Echostar	5070	
GE	. 5000, 5001, 5072	
General Instruments	. 5050, 5051, 5052	
Hitachi	5066, 5067	
Hughes		
JVČ		
Panasonic		
Philips	5068	
Primestar		
Proscan	. 5000, 5001, 5072	
RCA	. 5000, 5001, 5072	
Realistic		
Sony		
STS1		
STS3		
STS4	5056	
Toshiba		
Uniden		

#### **VCR Codes**

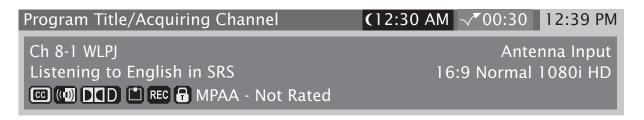
Programmable for VCR and AUX buttons.
Admiral
Aiko
Aiwa
Akai
Audiovox
Bell & Howell
Broksonic
Calix
Canon
Capehart
Carver
CCE
Citizen 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2023
Colortyme
Craig
Curtis-Mathes
Daewoo 2011, 2013, 2015, 2021, 2022, 2023, 2056
Daytron
Dimensia
Electrohome
Emerson
Fisher
Fuji
Funai
Garrard
GE 2000, 2001, 2009, 2017, 2018, 2060,
Gradiente
Harm5, 2(7, 2062)]TJ0 -1.0629 TD0 Tw[(Funai)-225(rr)-251Hitachi 202856

# Using the TV's Features

# **Chapter Overview:**

- About the Channel Banner
- Digital or Analog TV Channels
- Parental Controls
- How V-Chip Works for the USA and Canada
- Auto Tuning Feature
- PIP (Picture-In-Picture) Operation
- Emergency Alert System (EAS)

# Using the TV's Features



## **About the Channel Banner**

The Channel Banner appears when you press the INFO button on the remote. If an icon in the channel banner is grayed out (dim), the feature is not available. The following list describes the items on the Channel Banner screen (left to right and top to bottom). Other displays that are not described here are self-explanatory. When you change channels, the Channel Banner appears as a smaller version than what's shown above.

The icons change appearance to show the item's status or availability.

**Program Title/Acquiring Channel** Title of program (if available) or Acquiring Channel appears when tuning a channel.

(12:30 AM) The time when the TV shuts off if the Sleep Timer is activated in the *Time* menu.

Displays the time remaining before the TV tunes back to the channel where Commercial Skip was activated.

12:39 PM Current time if the Time feature is set in Time menu.

**Cb 8-1 WLPJ** Current channel, subchannel (for digital channels) and the TV station call letters, if available

Antenna/Cable/Auto Tuning Displays type of signal (Antenna or Cable) you're viewing or the Auto Tuning component you're viewing.

**Listening to** Displays when SAP is playing for an analog channel. For a digital channel, displays the currently playing audio mode. Also displays the audio processor in use. SAP or Audio Mode changes with SOUND button.

**16:9** Normal 1080i HD Aspect ratio (4:3 or 16:9); original resolution of the broadcast, not the resolution of the TV; HD or SD. For more information about aspect ratio and broadcast resolution, go to page 2.

Displays when Closed Captioning is available on the current channel and matches the format selected in the *Caption Priority* menu.

SAP or Audio language icon appears when the current analog channel is broadcasting SAP (Second Audio Program) information or when current digital channel is broadcasting an alternate audio mode, respectively.

Sound mode icons (mono, stereo, Dolby surround, four-channel surround, 4.1-channel surround, five-channel surround, etc.).

REC Appears when a program can be recorded; otherwise, it is grayed out.

Parental Control icon is displayed red when the TV is locked, green when the TV is unlocked, and yellow when the TV is temporarily unlocked.

**MPAA - Not Rated** V-chip program rating (not the TV's rating set up in Parental Control menu).



#### **Editing Channels in the Channel Lists**

All the lists can only be edited through the *Unlocked List* and *Locked List* in the *Parental Controls* menu. You can remove or "hide" a channel from the *Unlocked List* by removing the check mark in the box. Also, you can remove or "hide" a channel from the *Locked List* by selecting *Blocked* in the *Locked List*. When you press the channel buttons, that channel will be skipped. When the TV is locked, you can still access the channel directly by using the number buttons on the remote control but may not be able to see the video until a valid password is entered.

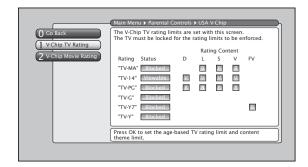
To save time, you can also add ALL or delete ALL channels in a list by changing the box or choice field in the line that says *All Video Inputs* or *All Channels* but be very careful because you could erase all of your selections.

**Note:** If a cable box is connected to the CABLE INPUT, the channel list can be edited for Cable Channel in the Parental Controls menu. If a cable box is connected via INPUT1, the channel list cannot be edited-you can only use channel up/down or use the number buttons.

# How V-Chip Works for the USA and Canada

The V-Chip software reads a code that most broadcasters send with programs. That code tells the TV software the program's age-based rating (TV-MA, TV-14, etc.) and content themes [(Violence (V), Adult Language (L), etc.)]. If you have blocked the rating and/or content themes that the program contains and the TV is locked and you tune to a program whose rating exceeds the rating limit you set, you will receive a message telling you that the program is not approved for viewing.

Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating and the TV is locked. With the *V-Chip Unrated* menu, you can also block out programs that have been given a rating of "Not Rated," or "Exempt" and programs that are considered "unrated". The TV age-based ratings and content themes you can block are in the table on the next page.



### **USA V-Chip TV Ratings**

The USA V-Chip TV Rating lets you decide which TV programs can and cannot be viewed. To set TV programming limits:

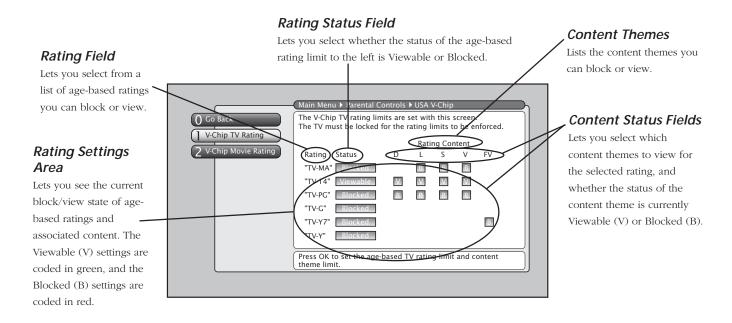
- 1. Choose *Parental Controls* from the Main menu. If *Parental Controls* have previously been locked, you must enter your password.
- 2. Highlight and select USA V-Chip.
- 3. Highlight and select V-Chip TV Rating.
- 4. Once you get to the *V-Chip TV Rating* screen, use the arrow buttons and OK on your remote to change the status of a TV program rating or content theme from *Viewable* to *Blocked*.

Proceed to the next sections for more details about how to change the status of TV program limits.

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#### **USA V-Chip Rating Limit Screen**

The following is an example of where items are located within the V-Chip TV Rating screen below the USA V-Chip menu.



Age-Based Rating	USA Description and Content Themes for Age-Based Ratings			
TV-MA	<b>Mature Audience Only</b> . Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).			
TV-14	<b>Parents Strongly Cautioned</b> . Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).			
TV-PG	<b>Parental Guidance Suggested.</b> Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).			
TV-G	<b>General Audience</b> . Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).			
TV-Y7	<b>Directed to Children 7 years and older</b> . Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between makebelieve and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.			
TV-Y	<b>All Children</b> . Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.			

#### **Blocking Age-Based Ratings**

You can automatically block all program ratings above a specified age-based rating level. For example, if you only want your child to watch programs that have a TV-G rating and lower (in other words, you want the child to watch TV-G, TV-Y7, and TV-Y), then you need to block out higher ratings.

To block programs with higher ratings:

- 1. First, determine the lowest level rating you don't want the child to watch (see chart of age-based ratings on previous page).
- 2. Highlight the lowest rating you do not want the child to watch. In the example discussed above, you would highlight TV-PG, since the highest rating you want the child to watch is TV-G.
- 3. Press the OK button to toggle between *Viewable* and *Blocked*. The status for the rating listed to the right and all higher ratings automatically change to *Blocked* (and *B*).
- 4. Select *Lock TV* from the *Parental Controls* menu. Enter a password and re-enter password a second time to confirm the password.

Hierarchy of Age-Based Ratings		
TV-MA	Mature Audience Only	
TV-14	Parents Strongly Cautioned	
TV-PG	Parental Guidance Suggested	
TV-G	General Audience	
TV-Y7	Directed to Children 7 years and older	
TV-Y	All Children	

#### **Viewing Age-Based Ratings**

After you block age-based ratings, you have the option of changing some of the ratings back to *Viewable* (V).

- 1. Determine which blocked rating you want to view.
- 2. Use the up and down arrow buttons to highlight the rating with a status of *Blocked*.
- 3. Press the OK button to select Viewable.

**Notes:** The content status fields corresponding to the unblocked rating become Viewable as well. They and the age-based rating status are the only fields that automatically change back to Viewable when you complete this process.

You must remember to lock the TV for rating limits to take effect.

#### **Blocking Specific Content Themes**

You can block programs based on their content. When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.

For example, if you do not want your child to watch programs that have adult language (L) rated TV-PG or higher, then you could block out all programming TV-PG and above containing adult language.

To block program content:

- 1. Determine the lowest level of content you don't want the child to watch.
- 2. Use the up and down arrow buttons on the remote to highlight the age-based ratings that correspond with the lowest content you do not want the child to watch. (In the example above, you would highlight TV-PG.)
- 3. Press the OK button to change content status from (V) Viewable to (B) Blocked. All higher ratings' content themes change to Blocked.

**Notes:** Broadcasters are not required to provide content themes or age-based ratings.

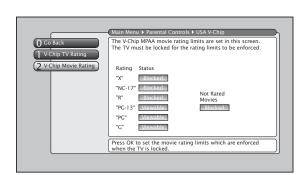
You must remember to lock the TV for rating limits to take effect.

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#### **Viewing Specific Content Themes**

If you block specific content themes, you have the option of going back and changing some of the content themes back to (V) Viewable:

Content Themes		
D	Sexually explicit dialogue	
L	Adult language	
S	S Sexual situations	
V	Violence	
FV	Fantasy Violence	



- 1. Determine the content themes you want to change to (V) Viewable.
- 2. Use the up and down arrow buttons to highlight the age-based rating whose content theme you want to change to *Viewable*.
- 3. Press the OK button to change its status back to *V*. Your child would then be able to watch programs with TV-14 adult language content, but not programs with TV-PG or TV-MA language content.

**Note:** Only the content theme status corresponding to TV-14 (L) language changes to (V) View. Higher rated content themes, such as that for TV-MA language, do not change.

#### V-Chip Movie Rating Limit

You set movie (MPAA) rating limits by blocking movies rated above a specified rating. How to block and view movie ratings is explained in the next two sections.

To access the V-Chip Movie Rating menu:

- 1. Press MENU on the remote control (the *Main Menu* appears).
- 2. Select Parental Controls.
- 3. Select USA V-Chip.
- 4. Select V-Chip Movie Rating.

#### **Blocking Movie Ratings**

If you only want your child to watch movies that have a PG rating and lower (in other words, movies rated PG and G), then you could automatically block out all other movies with higher ratings.

To block movies:

- 1. Highlight the rating that is the lowest rating you don't want the child to watch. (In the example above, you would highlight the rating status button corresponding to PG-13, since the highest rating you want the child to watch is PG.)
- 2. Press the OK button to change the button from *Viewable* to *Blocked*. All higher ratings automatically change to *Blocked*.
- 3. If the TV is not locked, you must lock it so the movie rating limits will take effect.

**Note:** Some movies may be given a Not Rated (NR) rating. After blocking movie ratings, you must set NR to Viewable separately to view NR movies.

#### Viewing Movie Ratings

After you block movie ratings, you have the option of changing some of the rating status buttons back to Viewable:

- 1. Highlight the rating you want to view.
- 2. Press the OK button to change the button from *Blocked* to *Viewable*.
  - For example, if movies with a rating of PG-13 and higher are blocked, you can change the rating status corresponding with NC-17. Your child would then be able to watch all movies with a G, PG, and NC-17 Rating.
- 3. Exit the screen, and be sure the TV is locked.

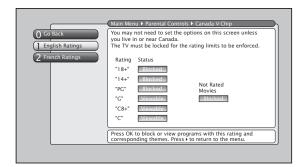
# Canada V-Chip

Canadian TV V-Chip supports two different Canadian rating systems: English and French.

Age-Based Rating	Canada V-Chip English Rating System
18+	Adults. Programming intended for adults 18 and older. It may contain elements of violence, language, and sexual content which could make it unsuitable for viewers under 18. Violence guidelines: may contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other content guidelines: may contain graphic language and explicit portrayals of nudity and/or sex.
14+	Viewers 14 and over. Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence guidelines: may contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other content guidelines: may contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
PG	<b>Parental Guidance.</b> Programming intended for a general audience but which may not be suitable for younger children (under the age of 8). Parents may consider some content inappropriate for unsupervised viewing by children aged 8-13. Violence guidelines: depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other content guidelines: may contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.
G	<b>General Audience.</b> Programming considered acceptable for all ages groups. While not designed specifically for children, it is understood younger viewers may be part of the audience. Violence guidelines: will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other content guidelines: there may be some inoffensive slang, no profanity and no nudity.
C8+	<b>Children 8 and Older.</b> Programming generally considered acceptable for children 8 years and over to watch on their own. Violence guidelines: violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other content guidelines: there will be no profanity, nudity or sexual content.
С	<b>C (Children)</b> Programming intended for children under age 8. Violence guidelines: careful attention is paid to themes which could threaten children's sense of security and well being. There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other content guidelines: there will be no offensive language, nudity or sexual content.

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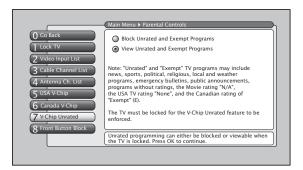
Age-Based Rating	Canada V-Chip French Rating System
18+	<b>Adults.</b> Programming is for adults only. This program contains sustained violence or extremely violent scenes.
16+	<b>Viewers 16 and over.</b> Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes.
13+	<b>13+ (Viewers 13 and over)</b> Programming may not be suitable for children under the age of 13. This program either contains several violent scenes or one or more scenes that are violent enough to affect them. Viewing in the company of an adult is therefore strongly recommended for children under the age of 13.
8+	<b>8+ (Viewers 8 and over)</b> Not recommended for young children. This program is suitable for most audiences, but it contains mild or occasional violence that could upset young children. Viewing in the company of an adult is therefore recommended for young children (under the age of 8) who do not distinguish between reality and imagination.
G	<b>G (General Audience)</b> This program is suitable for audiences of all ages. It contains no violence, or any violence that it does contain is either minimal or is presented in a humorous manner, as a caricature, or in an unrealistic way.



#### Canada V-Chip

The *English* or *French Canada V-Chip TV Rating* lets you decide which TV programs can and cannot be viewed. To set TV programming limits:

- 1. Choose *Parental Controls* from the Main menu. If *Parental Controls* (TV) have previously been locked, you must enter your password.
- 2. Highlight *Canada V-Chip* and select either Canada's *English Ratings* or *French Ratings*.
- 3. Once you get to the *English* or *French Ratings* screen, use the arrow buttons and OK on your remote to change the status of a TV program rating or content theme from *Viewable* to *Blocked*.



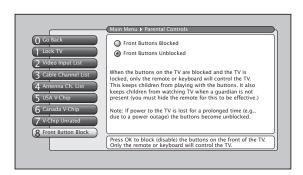
#### V-Chip Unrated Program Block

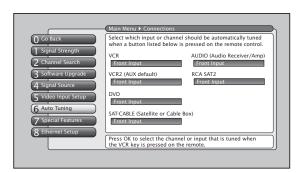
Selecting this option lets you decide if programs that the V-Chip recognizes as "Unrated" (USA) and "Exempt" (Canada) can be viewed. Note that "Unrated" and "Exempt" TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings, the movie rating "N/A," and the TV rating "None" and the Canadian rating of "Exempt."

**Block Unrated and Exempt Programs** All unrated and exempt programs are available.

*View Unrated and Exempt Programs* All unrated and exempt programs are not available.

**Note:** You must remember to lock the TV for rating limits to take effect.







With the Auto Tuning feature, you can set up the TV to tune to the channel or input you want to watch by pressing that component's button. Auto Tuning for the TV button cannot be set.

#### **Front Button Block**

Selecting this option lets you block (disable) or unblock (enable) the TV's front buttons. The remote still tunes to any channel. *Front Panel Block* can:

- Keep children from watching TV when the parent is not present.
- Keep young children from playing with the buttons on the TV.

(When using this as a *Parental Control* method, you should remove access to any remote that is capable of operating the television.)

Don't forget to lock the TV after you select *Blocked*. If you do not, the front panel block will not take effect.

**Note:** If power to the TV is lost for an extended period, the buttons become unblocked. Blocking the front buttons does not disable the front input jacks.

# **Auto Tuning Feature**

The way you set up the *Auto Tuning* feature in the TV's menu corresponds to the component buttons on the remote and the way you have each component connected to your TV. When you set auto tuning, you're telling the TV what channel or input to tune to when you press the VCR, DVD, AUDIO, or SAT/CAB button on the remote control. This is especially useful for going directly to an input like HDMI/DVI.

**Notes:** The AUX button by default is set up for a second RCA VCR. If you need to reprogram the AUX button, or instead want to program the VCR button, use the 2001 code. Then use the VCR2 option in the auto tuning menu to set auto tuning.

If you have two RCA satellite receivers, you can control each separately. Program the second receiver with the AUX button using the 5001 code. Then use the RCA SAT2 option in the auto tuning menu to set auto tuning.

- 1. Press MENU (the Main Menu appears).
- 2. Highlight Connections and press OK.
- 3. Highlight *Auto Tuning* and press OK.
- 4. Highlight the component button field and continually press OK to scroll through the selection of inputs.

The choices and a brief explanation follow:

**Not Connected** Choose this if you don't have this particular component connected to the TV, or if you don't want the TV to automatically tune to the correct channel when you press one of the component buttons on the remote.

**Channel 2, 3 or 4 Cable Input** Component is connected to the *CABLE INPUT* jack on the back of the TV, and you want the TV to tune to channel 2, 3, or 4 when you press the corresponding button on the remote. Reminder: make sure the component's Channel 2/3 or 3/4 switch is set to match the channel you choose in *Auto Tuning*.

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**Channel 2, 3 or 4 Antenna Input** Component is connected to the *ANTENNA INPUT* jack on the back of the TV, and you want the TV to tune to channel 2, 3, or 4 when you press the corresponding button on the remote. Reminder: make sure the component's Channel 2/3 or 3/4 switch is set to match the channel you choose in *Auto Tuning*.

**Input 1, Input 3** Component is connected to the Input 1 or 3 Video (V) or S-VIDEO jack on the back of the TV and you want the TV to tune to the Video Input Channel when you press the corresponding button.

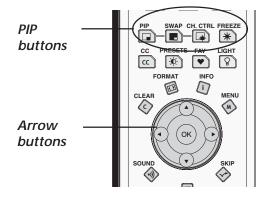
*Input 2, Input 4* Compatible video source, such as a DVD player or satellite receiver, is connected to the Input 2 or 4 *COMPONENT/COMPOSITE INPUT* jacks (Y/Video, Pb, Pr) on the back of the TV and you want the TV to tune to the composite/component video input when you press the corresponding button.

**Front Input** Component is connected to the *S-VIDEO IN* or *VIDEO IN* jack on the front of the TV and you want the TV to tune to the front Video Input Channel when you press the corresponding button.

**HDMI** Component is connected to the *HDMI/DVI* jack on the back of the TV and you want the TV to tune to this input when you press the corresponding button.

# PIP (Picture-in-Picture) Operation

The PIP (Picture-In-Picture) feature lets you display a second, smaller analog (NTSC format) picture on top of the main analog picture. You will only be able to use the PIP window and main picture with analog channels and inputs; PIP doesn't support digital signals. The main and PIP channels must be from different tuners or inputs; for example, main is from INPUT 1 and PIP is from ANTENNA INPUT. If you are only using tuners for PIP and main, you must have the main picture from CABLE INPUT and the PIP picture from ANTENNA INPUT, or vice-versa.



#### Tip

If you want to go directly to an input or channel in PIP (or main), set up auto tuning and press the component button (VCR, DVD, etc.).

#### **PIP Buttons**

There are certain remote buttons that control the way the PIP window works:

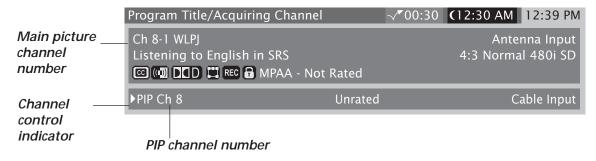
PIP Brings up the PIP window. Press PIP again to remove the window.

**Arrows** Let you move the PIP window to different areas of the screen.

**SWAP** Switches the video from the PIP window to the main picture.

**FREEZE** Freezes entire screen, including the main picture and PIP window, if PIP is displayed.

**CH CTRL** (Channel Control) Lets you switch channel control between the PIP window and the main picture. To determine whether you are controlling the PIP or the main picture, look at the channel banner as you change channels or press the INFO button. The triangular indicator (>) beside the channel number lets you know which picture you're controlling with channel up/down, number buttons, etc.



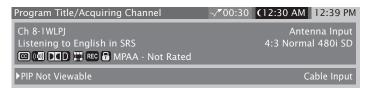
#### **Using the PIP Feature**

The PIP feature is only available for analog (NTSC) channels; PIP won't work when tuned to a digital (ATSC) channel. Use the channel banner to determine whether a channel is digital or analog. A digital (ATSC) channel has a dash and second number after it (e.g., 21-2); an analog channel doesn't (e.g., Ch 21). While you may use PIP in different ways, this basic PIP scenario should get you started. When watching an analog channel, follow these steps.

- 1. Press the PIP button on the remote control. The PIP window appears on the screen and *Channel Control* is automatically set to the PIP window.
- 2. Use the channel up and down, INPUT, ANT/CAB, or number buttons, or component buttons that have been auto tuned, to change the PIP channel.
- 3. To change the program in the main picture window, press CH CTRL. Then use any of the above mentioned buttons. To go back and forth between controlling the PIP window and the main picture, press the CH CTRL button.

#### PIP Problems?

• If you are channel surfing in the main window and PIP disappears, you may have tuned to a digital channel. To view PIP and the main picture, make sure that both the main and PIP channels are analog inputs, or signals. Continue changing the channel until you find an analog (NTSC format) channel. The PIP window will reappear.



The message "PIP Not Viewable" in the channel banner lets you know that PIP is not available on this channel and you should tune to another channel.

- If you press PIP and the PIP window is gray, you may have activated the Parental Control feature and the program exceeds the rating limits you set. For information on removing limits, see the section "Parental Controls."
- You cannot view closed captioning in the PIP window.
- PIP channel skips all digital (ATSC) TV channels and tunes to analog channels.
- PIP can only be displayed in analog signals from CABLE, ANTENNA, composite, S-VIDEO and component (Y, Pb, Pr) inputs in 480i format.

# **Emergency Alert System (EAS)**

The EAS works only if you have a digital cable card connected to the CableCARD slot on the back of the TV. Your cable company informs you of emergency alert information related to your state or local-level emergencies, such as Flash Flood Warnings, Severe Thunderstorm Warnings, and Tornado Watches. When your TV receives a state or local-level emergency, a message is displayed that lasts approximately 2 minutes, but can be replayed if necessary. During this time, you can't clear the information being displayed. In the rare event that there is an national-level emergency, your TV would tune to a channel broadcasting the emergency information.

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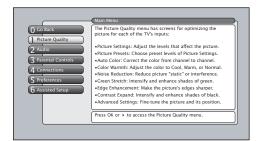
# **Chapter Overview:**

- Menus, On-Screen Help, and Control Panels
- Picture Quality Menu
- Audio Menu
- Connections Menu
- Preferences Menu

# Menus, On-screen Help, and Control Panels

This section highlights your TV's on-screen menu system. The menu system has several types of screens. An overview follows.

**Note:** The Parental Controls menu items is discussed in the Features chapter, while Assisted Setup is discussed in the Connections and Setup chapter.



#### **Tips**

A shortcut method to access a menu item is to press the number button on the remote that matches the number next to the on-screen menu. For example, in the Main Menu, press 2 to go straight to the Audio menu.

Feel free to explore the menu system. If you're ever unsure where you are in the menu system, look at the menu path at the top (for example, Main Menu, Picture Quality) or if you're just tired of exploring, press CLEAR to remove the menus from the screen and start over again.

#### Navigating the Menu System

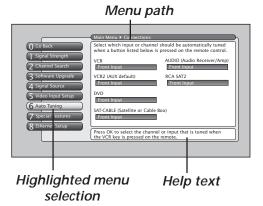
The first menu you see when you press the MENU button on the remote is called the *Main Menu*. To access the *Main Menu*:

- 1. Press the MENU button (the *Main Menu* appears).
- 2. Use the arrow buttons (left, right, up, down) to move through the menu and highlight different options.
- 3. Press the OK button to select a highlighted item.

**Note:** Press the number button on the remote that matches the number next to the on-screen menu to select the option.

To exit the Main Menu:

- Press CLEAR. The on-screen displays are cleared from the screen and you return to TV viewing.
- Press MENU.
- Press 0 (Go Back) or GO BACK on the remote.



# On-Screen Help

Information appears on most screens to assist you in understanding your menu selection. To the right of the highlighted menu item is a display area that might provide text for the item selected along with any submenu items. In addition, a menu path appears at the top of the screen to let you know where you are in the menu system. At the bottom of the screen are two lines of help text that explain the currently highlighted item.

#### **Controls**

Controls let you adjust the default settings of your TV. You can choose a setting, enter a number, or adjust a level such as tint or brightness. There are four types of controls:

- Sliders
- Choice lists (check boxes, radio buttons)
- Alpha/numeric entries
- Menu (action, choice fields)

#### **Sliders**

Sliders are used to select a specific point of a control that has continuous levels. To make adjustments:

- 1. Highlight the slider for the feature you want to adjust.
- 2. Press the up or down arrow button to adjust the indicator on a vertical slider. Press the left or right arrow to adjust the indicator on a horizontal slider.



#### **Choice Lists**



Check boxes and radio buttons are used to select options from a list. Check boxes let you select one or more options. A radio button lets you select only one option.



- 1. Use the arrow buttons to move left/right/up/down.
- 2. Press OK to select a radio button; press OK to select or de-select a check box.



#### **Numeric Entries**

- Numeric entry fields are used to enter numbers, passwords, and time values. The number buttons on the remote and the arrow, channel up/down, volume up/down, and MENU/OK buttons on the front panel can be used to enter the information.
  - 1. Use the left/right arrow button to highlight the field.
  - 2. To enter time values, such as the Wake-Up Timer, highlight the + or field and press OK to change the time, or simply use the number buttons. To enter passwords, you must use the number buttons.



#### **On-screen Menu Items**

The on-screen menu items are used to access the information and/or change the settings of the specific item highlighted. Highlight the item with the up and down arrow buttons. Then press OK or right arrow button to access the item's information. To make a selection in one step, press the number button corresponding to the item.

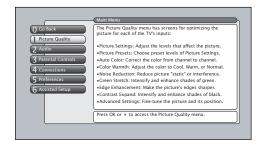
#### **Action Buttons**

An on-screen button that performs the action labelled on the button. Press the right arrow button to highlight and press OK to select.

#### Choice Fields

A choice field cycles through at least two or more choices. Press OK to select the next entry within the choice field. Moving the highlight to a different choice field, pressing CLEAR, or exiting the menu saves the selection previously made.

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# **Picture Quality Menu**

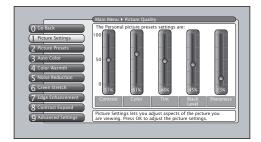
The *Picture Quality* menu contains menus to configure video settings: *Picture Settings, Picture Presets, Auto Color, Color Warmth, Noise Reduction, Green Stretch, Edge Enhancement, Contrast Expand,* and *Advanced Settings*. Each one is described below.

**Note:** When changing an item in the Picture Quality menu, the graphics become transparent so you can see how your adjustments affect the picture.

To access the Picture Quality menu:

- 1. Press MENU on the remote control (the *Main Menu* appears).
- 2. Highlight Picture Quality and press OK (the Picture Quality options appear).

**Note:** When making Picture Quality changes, inputs are all adjusted independent of each other. Digital cable and antenna channels are adjusted independent of analog cable and antenna channels.



#### Picture Settings

The *Picture Settings* menu displays five slider controls for adjusting the way the picture looks. Your options under the *Picture Settings* menu are:

**Contrast** Difference between the light and dark areas of the picture.

**Color** The richness of the color.

*Tint* The balance between the red and green levels.

**Black Level** The brightness of the picture.

**Sharpness** The crispness of the edges in the picture.

To create picture settings for the video inputs:

- 1. Press the INPUT button while in the *Picture Settings* menu until the correct Video Input Channel appears in the upper right corner.
- 2. Press the right and left arrow buttons on the remote control to select the slider.
- 3. Press the up and down arrow buttons to operate the slider.



#### **Picture Presets**

Picture Presets displays a choice list that lets you select one of the six preset picture settings: Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, and Personal.

Choose your setting based on the degree of lighting in your room. After you select a preset, the settings listed to the right are adjusted automatically.

If you choose *Personal*, you can customize each picture quality setting to your desired level, and a message appears asking if you want to save those settings. After you've saved your personal settings, you can go back into the menu and select a different picture preset. For example, if you normally use *Personal* but want to watch a show in *Vibrant (Day)* lighting, choose *Vibrant (Day)*, watch the show, and then afterwards return to your customized settings by choosing *Personal*. The PRESETS button on the remote works with Picture Presets. Go to the Remote chapter for more information.

#### Tip

To create a temporary personal setting, make your changes and when the message appears asking if you want to save the setting, select No. The preset is saved until you change the channel or input.



#### **Auto Color**

*Auto Color* minimizes the flesh tone variations of the TV picture. Choose *On* or *Off*, depending on your preference.



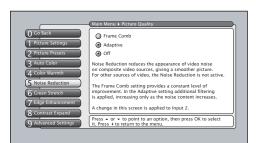
#### **Color Warmth**

*Color Warmth* automatically adjusts the color temperature of the picture. The feature lets you set one of three automatic color adjustments:

Cool More blue.

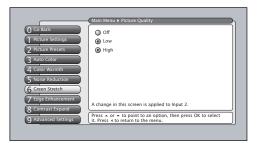
Normal Standard picture color.

Warm More red.



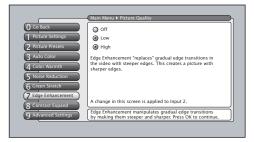
#### **Noise Reduction**

Noise Reduction displays a list that lets you set one of the three settings that allows you to reduce picture "static" or any type of interference. A different Noise Reduction setting can be stored for each input, but only applies to components connected to the composite inputs. You can set the Noise Reduction to Frame Comb, Adaptive, or Off. The settings are explained in the on-screen help text.



#### **Green Stretch**

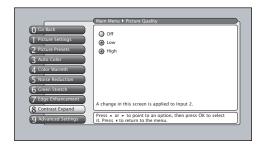
*Green Stretch* makes green "greener" and increases the saturation. For example, nature shows and sporting events are especially enhanced by this feature. The options are *Off, Low,* and *High.* 



# **Edge Enhancement**

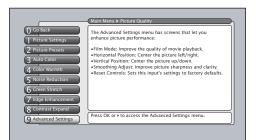
*Edge Enhancement* makes the edges of the video steeper, sharper, and crisper. There are three options for the edge enhancement: *Off, Low*, or *High*. If artifacts appear in the video, change the setting to *Low* or *Off*.

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#### **Contrast Expand**

*Contrast Expand* makes the picture appear brighter by deepening the black parts of the picture. This also helps to maintain a more consistent black level from one scene to the next. The options are *Off, Low,* and *High*.



Smoothing Adjust only available for models HD44LPW164, HD50LPW164, and HD61LPW164.

#### **Advanced Settings**

The *Advanced Settings* option lets you enhance picture performance and adjust picture position. When you select *Advanced Settings*, a submenu appears with options:

**Film Mode** Automatically detects video sources that were originally recorded on film and converted to a different format. Film mode modifies the converted signal so it looks as close as possible to the original, a process called reverse 3:2 pulldown. Film mode is applied to all inputs. Options are:

- Advanced The default and recommended setting.
- **On** Used in circumstances when the TV is to be used solely with film-based sources.
- *Off* Use this setting if you think the reverse 3:2 pulldown is causing distortions in your picture.

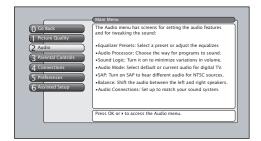
**Horizontal Position** Allows you to adjust the picture left and right. Press the right arrow button to move the slider right and move the picture to the right. Press the left arrow button to move the slider left and move the picture to the left.

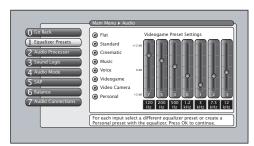
**Vertical Position** Allows you to adjust the picture up and down. Press the right arrow button to move the slider right and move the picture up. Press the left arrow button to move the slider left and move the picture down.

**Smoothing Adjust** (available only for models HD44LPW164, HD50LPW164, and HD61LPW164) Allows you to adjust the lines of the picture so they appear smooth. Press the left/right arrow buttons to move the lines in the test pattern until they're smooth.

**Reset Controls** Menu button resets all Picture Quality controls to their original factory settings (except *Personal Picture Preset*, *Horizontal* and *Vertical Position*, and *Smoothing Adjust*) for the currently tuned input (see on-screen text). To reset the settings, you must:

- 1. Tune to the input you would like to reset.
- 2. Press MENU to access the Main Menu.
- 3. From the *Advanced Settings* menu, select *Reset Controls*, and then select *Reset* to reset the settings for the currently tuned input.





#### **Audio Menu**

The *Audio* menu lets you adjust audio output. To access the *Audio* menu, press MENU on the remote, and then select *Audio* from the main menu. The following audio items can be adjusted: *Equalizer Presets, Audio Processor, Sound Logic, Audio Mode, SAP, Balance,* and *Audio Connections*.

# **Equalizer Presets**

You can select one of the seven-band Equalizer Presets or create your own personal preset. The seven-band graphic equalizer lets you adjust the audio frequency settings. The equalizer can only be changed if the <code>Fixed/Variable</code> <code>Audio Output</code> is set to <code>Variable Output</code>, <code>Speakers On</code>. If the <code>Fixed/Variable</code> <code>Audio Output</code> is set to <code>Fixed Output</code>, you cannot make changes to the equalizer and the bands are set to 0dB. However, the graphic equalizer levels for <code>Variable Output</code>, <code>Speakers On</code> are stored in memory in case you switch from <code>Fixed Output</code> back to <code>Variable Output</code>, <code>Speakers On</code>.

**Notes:** If the internal speakers are used as the center channel audio speaker from an external audio receiver, the graphic equalizer settings do not apply. Equalizer Presets are stored for each input. All other audio feature settings are stored globally across all inputs and not per input.



#### **Audio Processor**

The Audio Processor displays a choice list of available audio modes, which control the way the sound comes through your speakers when the TV is set to using the *Variable Output*. The selected setting affects all inputs and tuners.

To create the settings:

- 1. Press the MENU button (the *Main Menu* appears).
- 2. Select Audio, and then Audio Processor. The following options appear:

*Mono* Plays the sound in monophonic audio only. This should only be used when the stereo signal is weak. The channel banner displays the word *Mono* when you have selected Mono and SRS is turned off.

**Stereo** Splits the incoming stereo audio signal into left and right front channels. Most TV programs and recorded materials have stereo audio. The channel banner displays the word *Stereo* when you have selected Stereo and SRS is turned off.

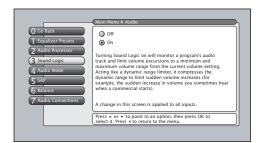
The following options are available only if the *Fixed/Variable Output* is set to *Variable Output, Speakers On*:

**Off** No SRS processing is applied to the audio.

Adds greater depth and stereo separation to stereo audio signals. Delivers a panoramic 3D sound stage from stereo material. Use the SRS FOCUS adjustment on the right to adjust the clarity.

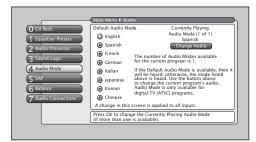
SRS and (( ) symbol are trademarks of SRS Labs, Inc.

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#### Sound Logic

Acting like a dynamic range limiter; it compresses the dynamic range to limit suggested volume increases (for example, the sudden increase in volume you sometimes hear when a commercial starts). Choose *On* or *Off,* depending on your preference.



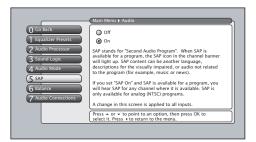
#### **Audio Mode**

The *Audio Mode* menu lets you choose the default audio mode you want to hear for ATSC (digital TV) programs. If the Audio Mode icon ( ) in the banner lights, it means there is more than one audio mode available. The system automatically sets the audio program to the default audio mode from the menu when the channel you are viewing is a digital channel and the specified language is available for that program.

In the *Audio Mode* menu, highlight the default audio mode you usually want to hear by pressing the up and down arrow buttons on your remote control. Press OK to hear that language by default whenever available on a channel.

Some programs can have audio mode available that can be heard but that cannot be set as the default. To select and hear those audio modes, navigate to the "Change Audio" action button and select OK, or use the SOUND button on the remote.

**Note:** You can change the Audio Mode temporarily by pressing the SOUND button on the remote control. Changing channels reverts the Audio Mode back to the default Audio Mode originally selected in the menu.

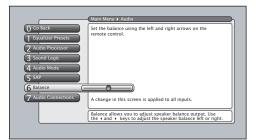


# SAP (Second Audio Program)

When turned on and available, Second Audio Program plays the analog program's audio in a second language. SAP is also used to broadcast a program's audio with descriptions of the video for the visually impaired. SAP might also contain audio which is totally unrelated to the video.

**Notes:** SAP is broadcast in mono and is only available for analog programs, not digital programs.

You can activate SAP (if available) temporarily with the SOUND button. Changing channels or inputs reverts SAP back to the SAP menu setting.

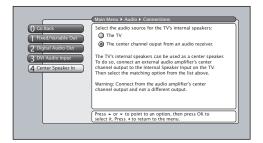


#### **Balance**

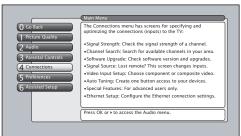
The *Balance* setting applies to the internal speakers and the headphone output. Balance is how much audio (loudness) gets sent to the left and right speakers.

**Note:** Balance applies if the Fixed/Variable Audio Output is set to Variable Output, Speakers On. See the following page for more information.





• *Center Speaker In* If you don't have an audio amplifier connected to the TV, choose *The TV* option. If you've connected an audio amplifier to the TV but want to use the TV's internal speakers as the center speaker, choose *The center channel output from an audio receiver* option.





#### **Connections Menu**

The *Connections* menu specifies various ways to adjust the inputs to your television. Items in the *Connections* menu are: *Signal Strength, Channel Search, Software Upgrade, Signal Source, Video Input Setup, Auto Tuning, Special Features,* and *Ethernet Setup.* 

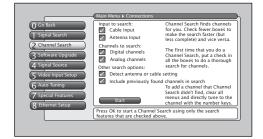
#### Signal Strength

This screen lists any channel EVER added to the TV. The list shows the channel number, the station name (only when tuned and available, e.g. NBC), whether the channel is digital or analog, which tuner is picking up the channel, and current signal strength of digital channels.

When you move the highlight to the *Signal Strength* list, the TV attempts to tune to that channel. You can then adjust your off-air antenna for maximum signal strength (largest number) for the selected channel. The signal strength for a digital channel will be shown as "--" until the signal is strong enough for use, then numbers will appear. Analog channels will always have the display, "N/A", since analog signal strength is not measured.

Only primary channels appear in the list. Digital subchannels, e.g. 8-1, 8-2, do not appear.

**Note:** If you have both Antenna and Cable channels, press the ANT•CAB button to view your Cable channels, or vice-versa.



#### Tip

You can still add a channel that was not found by Channel Search. Clear any on-screen menus, and tune to it by using the number buttons on the remote. If the channel can be tuned, it will be added to the channel list for that tuner.

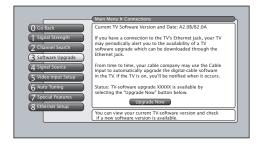
#### **Channel Search**

Engaging in a channel search tells the TV to search for all the TV channels available through the Antenna and Cable inputs. When the TV finds an active channel, it places it in the channel list. Inactive channels (weak stations or channels with no signal at all) aren't placed in the channel list.

To do a complete channel search, check each box that pertains to your TV. For example, if you're only receiving cable from the CABLE INPUT, highlight *Cable Input* and press OK to place a checkmark in the box. Select *Start* to begin the setup.

**Notes:** Channel Search with all options selected takes some time to complete because all possible analog and digital channels are being searched.

If a cable box is connected to your TV's CABLE INPUT or a CableCARD is in use, Channel Search won't work for Cable Input.



#### Software Upgrade

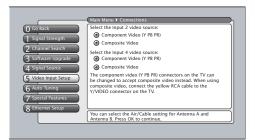
The *Software Upgrade* screen contains current software information and indicates if a new upgrade is available. The software information and upgrades can be accomplished only if you have the TV connected via the Ethernet cable to the Internet with ISP subscription. Select the *Upgrade Now* button, if available, to upgrade your software.

**Note:** If using a dialup service via a router connected at a dialup speed of 56K, the Software Upgrade could take several hours or more. If the TV is unplugged during a Software Upgrade, it could cause the TV to not operate properly.



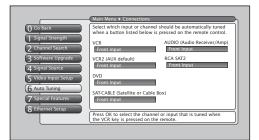
# **Signal Source**

The *Signal Source* menu allows you to choose the source from which you would like the signal to come: Cable Input, Antenna Input, or Video Inputs. The same can be accomplished using the component buttons if you've set up Auto Tuning on the remote or by pressing the INPUT button. But, if you misplace the remote, this feature gives you another way to tune to a signal source.



#### Video Input Setup

The *Video Input Setup* screen lets you choose which type of connection you're using for the Input 2 and/or Input 4 jack on the back of the TV. If you decide to change the connection, you need to go back into the *Video Input Setup* screen.



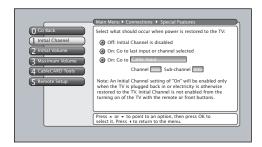
#### **Auto Tuning**

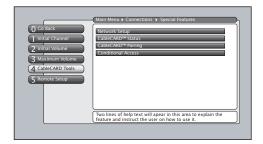
This menu lets you specify the various components you have connected to your TV. It lets you program a component button on the remote control (VCR, AUX, DVD, SAT/CAB, or AUDIO) so that pressing the button automatically turns on the TV and turns the TV to the correct Video Input Channel (go to Chapter 3 for detailed information).

**Notes:** The AUX button by default is set up for a second RCA VCR. If you need to reprogram the AUX button, or instead want to program the VCR button, use the 2001 code. Then use the VCR2 option in the auto tuning menu to set auto tuning.

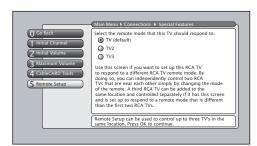
If you have two RCA satellite receivers, you can control each separately. Program the second receiver with the AUX button using the 5001 code. Then use the RCA SAT2 option in the auto tuning menu to set auto tuning.

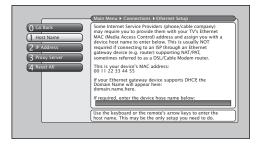
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Example status screen for digital cable television service.
Example status screen for Continue





#### **Special Features**

The special features options are mostly intended for commercial/retail use.

*Initial Channel* You can select the tuner and channel or input that your TV tunes to each time the TV is turned on by plugging it back in.

*Initial Volume* This feature works only if the *Initial Channel* feature is set to *On*. Select the volume level that you want when the TV is turned on.

**Maximum Volume** This feature is intended to stop the volume from being turned up too loudly. Set the volume at the loudest level you would want to hear.

**CableCARD Tools** Displays information available for digital cable TV services when a CableCARD is inserted in the back of the TV and you have subscribed to digital cable service. Go to page 18 for more information on using your CableCARD.

The *CableCARD Tools* information might vary according to the brand of card you have inserted into your TV. The graphic to the left is an example of what you might see. Select an option to view more information.

Some *CableCARD Tools* screens might have additional information displayed on more than one page. Use the arrow buttons on the remote to highlight the blue *Continue* link at the bottom of the page, for example, as the graphic to the left shows, and simply press the OK button on the remote to read more text. If more than one link appears, use the arrow buttons to highlight the one you want. To exit the screen, press CLEAR on the remote.

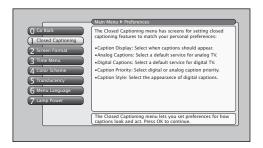
**Remote Setup** This features allows you to control three different RCA TVs. This is helpful if you have two or three RCA TVs near each other, and they also have this menu option, but you want to control them independent of each other. Program a second RCA TV to the DVD, VCR, AUX, SAT/CABLE, or AUDIO component button, using the TV2 code 1222. Select the TV2 option in that TV's *Remote Setup* menu. If you have a third RCA TV, program a component button using the TV3 code 1223. Select the TV3 option in that TV's Remote Setup menu. Go to Chapter 2 for more information on programming your remote.

# **Ethernet Setup**

An Ethernet connection allows your TV to be upgraded if a software upgrade is available. Connect your TV to a router and cable modem via the ETHERNET jack. Then, go to the *Software Upgrade* menu to see if a software upgrade is available. If you have a NAT (Network Address Translation) /PAT (Port Address Translation) component with DHCP capability (router, etc.), no setup is required. The TV automatically sets itself up for Ethernet use. If you do not have a NAT/PAT router, you may need to establish some settings in conjunction with your ISP (Internet Service Provider) before you can connect to the Internet.

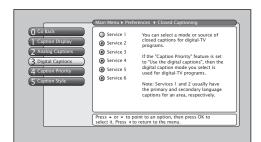
If an IP address isn't assigned for you, contact your network administrator for the necessary information.

A *Reset All* selection is provided for your convenience if you move to another city and must enter new information, or enter some incorrect information.



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- *CC1* and *Text 1* are the primary caption and text services. The captioning or text is displayed in the same language as the program's dialog.
- *CC3* and *Text 3* serve as the preferred data channels. The captioning or text is often a secondary language translation, simplified English, or displayed at a slower rate.
- CC2 and CC4 and Text 2 and Text 4 are rarely available and broadcasters use them only in special conditions, such as when CC1 and CC3 are not available, or Text1 and Text3 are not available.

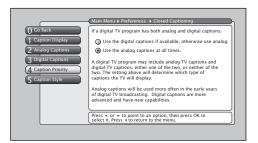


# Digital Captions

You can select a closed caption, service mode (1-6) for digital channels.

**Service 1** and **Service 2** are the primary and secondary languages, respectively.

**Service 3** and **Service 4, 5, 6** are additional caption sources that may be available. Specific label names may be displayed (e.g., Spanish) instead of a generic label (e.g., Service 1), if available.



#### **Caption Priority**

You can choose whether the TV uses digital or analog captions for digital TV programs that have both or either. The captions are displayed if turned on in *Caption Display*.



#### Caption Style

Customize closed captioning for the digital captions by choosing the settings for the following options:

*Caption Size* is the font size (*Standard*, *Large*, *Small*) of the text characters.

**Caption Font** is a complete assortment of letters, numbers, punctuation marks, etc. of a given font design. You have eight fonts with varying styles of spacing from which to choose.

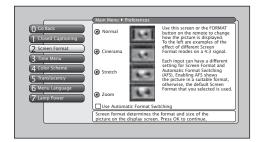
**Note:** A preview graphic of the caption font appears on the right of the screen.

*Caption Color* allows you to choose the font color: *White, Black, Red, Green, Blue, Yellow, Magenta,* and *Cyan*.

**Background Color** allows you to choose the background color: White, Black, Red, Green, Blue, Yellow, Magenta, and Cyan.

**Background Opacity** allows you to change the see-through background options: *Solid, Transparent, Translucent,* and *Flashing.* 

*Caption Opacity* allows you to change the see-through caption options: *Solid, Transparent, Translucent,* and *Flashing.* 



#### **Screen Format**

The *Screen Format* feature allows you to change how the image of a 4:3 picture is displayed on your 16:9 screen. The options are *Normal, Cinerama, Zoom* or *Stretch*. If your TV receives an image with a 4:3 aspect ratio, the image can be displayed in one of four ways:

**Normal** The image of a 4:3 video signal is centered with bars on the right and left sides of the screen.

**Cinerama** The image of a 4:3 video signal is centered, expanding in the horizontal direction to fill the display with little distortion.

**Stretch** The image of a 4:3 video signal is stretched horizontally by approximately 33% while the vertical size stays the same.

**Zoom** The image of a 4:3 video signal increases by approximately 33% and the vertical size increases by approximately 33%. Edges of the image might be cropped.

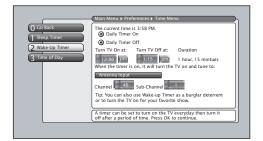
**Note:** When recording from the AUDIO/VIDEO OUTPUT jacks, use Normal or Stretch to record the video closest to its original format.

Turn on *Automatic Format Switching* so that as you change channels, the TV will change formats for you.

**Notes:** There is no ability provided to change the screen format for a 16:9 video signal since it fills up the entire area of the TV's screen.

The format of some video cannot be changed even though it appears to be a 4:3 aspect-ratio picture.

The FORMAT button on the remote lets you change the format with a one-button press rather than navigating to the Screen Format menu.



#### Time Menu

The *Time* menu lets you set up time-related features. *Time* menu consists of *Sleep Timer, Wake-Up Timer,* and *Time of Day.* 

**Sleep Timer** A one-time event that is used to set the TV to turn off at a specific time.

**Wake-Up Timer** Used to turn the TV on and off at a specific time every day of the week and tune to a specific channel or video input.

**Time of Day** Enables you to enter the correct time manually. If you don't enter the time, it is acquired from the last tuned digital channel. Make sure you check the time acquired is correct.

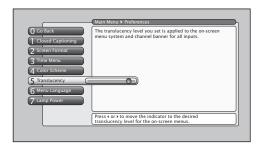
**Note:** If you enter the time manually, you must remember to set your TV's time when the time changes to Daylight Saving Time. Sleep Timer and Wake-Up Timer will not function as you expect if you forget to change the TV's time.

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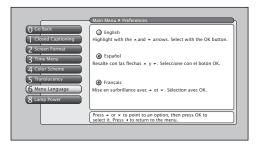
#### Color Scheme

Select from among four colors (*Sky Blue, Emerald, Raspberry, and Plum*) to change the color of the menu system and banner.



#### **Translucency**

You can change the translucency (see-through) level of the menu screens. Adjust the slider by using the left and right arrow buttons.



#### Menu Language

The menu language can be changed to one of three languages: *English, Spanish* or *French*. The menu language can also be selected when using the *Assisted Setup* menu.



#### **Lamp Power**

Your HDTV is equipped with a special lamp system. Eventually, the lamp (like a light bulb) will need to be replaced and you'll need to know your lamp type. Check the menu for your lamp type and write it down on page 1 for future reference. The *Lamp Power* menu enables you to extend the life of the lamp (choose *Longer Life*), or provide the brightest possible picture (choose *Brighter Picture*).

# Reference

# **Chapter Overview:**

- Troubleshooting
- Lamp Replacement Instructions
- HDTV Specifications
- Accessory Information
- Limited Warranty
- · Care and Cleaning
- FCC Information
- Index

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# **Troubleshooting**

Most problems you encounter with your TV can be corrected by consulting the following troubleshooting list.

**Note for U.S. customers:** If you prefer, we can provide you with the name of an Authorized Service Representative who will visit you home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359. For additional assistance while using your RCA Scenium product, please visit <a href="www.rcascenium.com/customersupport">www.rcascenium.com/customersupport</a>.

#### TV Problems

#### TV won't turn on

- Press the TV button or ON/OFF button while remote is in TV mode and there's a source of power to the outlet or outlet strip.
- Make sure the TV is plugged in.
- Does the power light on the front of the TV turn on and you hear audio but see no picture? If so, the TV is in its cool-down cycle. Wait a few moments and the picture will appear.
- Has the power light on the front of the TV been blinking for one minute? If so, the lamp is dead. Go to page 67 for replacement instructions and page 72 for ordering information.
- When you first plug your TV into an outlet, the Power indicator on the front panel will light and blink for approximately 30 seconds and then go off during the initialization of the TV. The TV can only be turned on after the Power indicator goes off. This happens every time power is reapplied to the TV.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else, such as a lamp.
- Something might be wrong with your remote control. Press the POWER button on the front of the TV. If the TV turns on, check the remote control solutions on page 66.
- Remote Setup might be set to the wrong option. Press MENU/OK on the front panel. Select Connections, then Special Features, then Remote Setup. Choose TV (default).

#### Power indicator is blinking or flashing

If the light blinks 5 times, pauses, and blinks again 5 times, the lamp is trying to turn on. If the TV doesn't turn on after 5 minutes and then the light blinks steadily for one minute, one of the following options is possible:

- Lamp door is open. Locate the door on the side of the TV and close it. Turn off the TV and turn back on. The lamp should turn on.
- Lamp is dead. You can replace the lamp yourself following the instructions on page 67. Go to page 72 for ordering information.
- Power supply within TV may need service. Go to page 73 for warranty information.

#### Buttons don't work

- If you're using the remote control, press the TV button first to make sure the remote is in TV mode.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Button Block* in the *Parental Controls* menu and choosing *Front Buttons Unblocked*.
- Unplug the TV for five minutes and then plug it back in. Turn the TV on and try again.

#### TV turns off while playing

- Sleep Timer or Wake-Up Timer may have been activated. Go to page 61 for instructions.
- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.
- Unplug. Wait five minutes. Plug in again.

#### TV turns on unexpectedly

- Wake-Up Timer may have been activated. Go to page 61 for instructions.
- Initial Channel feature is enabled and you lost power to your TV. Go to page 58 for instructions.

#### Video and audio are out of sync

• If you've connected a component, such as a DVD player, to your TV's Video jack, and to an audio receiver using the audio jacks, you may experience a slight delay between the audio heard and the video seen. Connect the DVD player to the TV's Audio jacks, then use the TV's FIXED/VARIABLE AUDIO OUTPUT jacks to connect to an audio receiver.

If your TV is connected to an audio/video (A/V) receiver or home theatre system via the DIGITAL AUDIO OUT jack, read the following information.

- If you've connected a component to your A/V receiver, such as a DVD player or satellite receiver, you may experience a slight delay between the audio heard and the video seen. This occurs because the digital audio is sent directly to the speakers while the video must be processed inside the TV before it is displayed.
- If the component has Component Video (Y, Pb, Pr) jacks, connect these jacks to the TV's Y, Pb, Pr jacks to minimize the discrepancy. This works best if the component supports Progressive Scan technology.
- If necessary, you can connect the component directly to the TV using L/R audio jacks and bypassing the A/V receiver or you can program an audio delay in the A/V receiver so the audio and video match up (not all audio equipment has the ability to program delays). Check the audio/video Receiver's manual.

#### Blank screen

- Make sure you have connected the component to the TV correctly.
- Make sure the component connected to the TV is turned on and tuned to the corresponding Video Input Channel.
- Try another channel, or press the INPUT or ANT CAB button.
- When you first turn off your TV, the screen fades from blue to black. Once the screen goes black, the TV's internal lamp starts its cool-down cycle. If you try to turn on the TV during the cool-down cycle, the TV turns back on and you'll hear audio, but the picture will take a few moments to be displayed.

#### **Unusual sound quality**

- Check the Graphic Equalizer, SRS, and Sound Logic settings.
- Check if SAP is turned on.
- Check that the *Audio Mode* is set to your language.

#### Humming or buzzing noise

- The TV is in its lamp cool-down cycle. To prolong the life of the TV's lamp system, the TV must warm up and cool down properly. You may notice additional noise during these cycles.
- Maybe the speakers are turned off. Check the FIXED/VARIABLE OUT control panel in the Audio menu.

#### No picture, sound okay

- If the indicator on the front of the TV is blinking for one minute, the lamp inside of your TV may need to be changed. Go to page 72 for ordering information.
- You might have tried to turn on the TV during lamp cool-down. Wait a few moments and the picture will be displayed.

#### No sound, picture okay

- Maybe the sound is muted. Try pressing the volume up button to restore sound.
- Maybe the speakers are turned off in the *Audio Connections* menu. Check the *FIXED/VARIABLE OUT* control panel in the *Audio Connections* menu.
- If using an S-Video connection, component video and composite video, remember to also connect the component's L and R AUDIO OUT jacks to the TV's L and R INPUT jacks.
- Check the Maximum and Initial Volume settings in the Special Features menu.

#### Channel search finds few channels

- The cable connected to the CABLE and/or ANTENNA INPUT jack might be loose.
- Your off-air antenna might be getting a weak signal. Move it higher or get a bigger antenna.
- If you have cables connected to the CABLE and ANTENNA jacks, try swapping the cables. Cable needs to be connected to the CABLE INPUT; off-air antenna needs to be connected to the ANTENNA INPUT.
- If you have a cable box, you can't connect it to the ANTENNA jack. Connect it to the CABLE INPUT or a Video Input jack.
- Select all the options in the *Channel Search* menu, and retry channel search.

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#### References

#### Can't select certain channel

- May be blocked or not approved in the *Parental Controls* menu.
- If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR or INPUT button on your VCR).
- You usually can't change channels when a menu is on the screen (press the CLEAR button).

#### Noisy stereo reception

• May be a weak station. Use Audio menu to choose Mono sound.

#### No picture, no sound but TV is on

- Maybe the cable/antenna option wasn't chosen in the *Channel Search* menu. Select *Detect antenna or cable setting* in the *Channel Search* menu and run the search again.
- The channel might be blank change channels.
- If you're watching your VCR and it's connected with coaxial cable to the CABLE/ANTENNA jack, tune the TV to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR). Also check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).
- If a channel doesn't exist and you tune to scrambled QAM channel, Unusable Signal appears.

#### Sound okay, picture poor

- Check antenna and video connections. Make sure all of the cables are firmly connected to the jacks and they're not damaged.
- Try adjusting sharpness function to improve weak signals. Go to page 50 for more instructions.
- Press the FORMAT button repeatedly to view the picture in different video formats. Analog channels may look better when you use the Normal video format (the video format appears on the right side of the channel banner).

#### Black box appears on the screen

Closed-captioning might be on. Check the Caption Display control panel in the Preferences menu. Go to page 59 for more
instructions.

#### The Remote Control Doesn't Work

- Something might be between the remote and the remote sensor on the component. Make sure there is a clear path.
- Maybe the remote isn't aimed directly at the component (TV or VCR) that you're trying to operate.
- Maybe remote is not in TV Mode. Press the TV button so the remote controls the TV.
- Maybe batteries in remote are weak, dead, or installed incorrectly. If batteries are weak, you will not be able to activate backlighting on the remote; instead, backlight will blink once when activated. Put new batteries in the remote. (Note, if you remove the batteries, you may have to reprogram the remote to operate other components.)
- When using the Learning feature, do the learning process in low light areas to prevent natural light and fluorescent light interfering with the infrared signals.
- For Volume Punchthrough, remember to program the AUDIO button on the TV's remote control to operate your audio receiver or amplifier. Go to page 26 for instructions. If you can't program this remote to operate your audio receiver, Volume Punchthrough won't work.
- Remote Setup might be set to the wrong option. Press MENU/OK on the front panel. Select Connections, then Special Features, then Remote Setup. Choose TV (default).

# Problems with V-Chip/Parental Controls

#### The rating limits don't work

• You must lock the settings. Go to the *Main Menu* (press MENU on your remote), select *Parental Controls* (press 5 on your remote), select *Lock TV* (press 1 on your remote).

#### I don't remember my password and I want to unlock the TV

• If you forget your password, put the remote in TV mode. Simultaneously press and hold MENU/OK on the television and VOL down on the remote for 3 seconds. Nothing appears on the screen, Parental Controls simply unlock and you can re-enter a password via Lock TV.

#### The V-Chip won't let me watch a program even though it's not rated as violent.

Maybe the movie was given an NR (Not Rated) status. After you block movie ratings, you must set V-Chip Unrated to View separately
in order to view movies with an NR rating.

# **Lamp Replacement Instructions**

#### Replacing the Lamp Unit

Your TV's source of light comes from a lamp – similar to lamps used in film or front projectors. Although this lamp is long-lasting, it may need to be replaced eventually.

#### When to replace the lamp

You probably need a new lamp if there's no picture, but you still can hear the audio and the power light on the front of the TV does the following: blinks 5 times, pauses, blinks 5 times again. If the TV doesn't turn on after 5 minutes and then the light blinks steadily for one minute, the lamp is dead. If you have any concerns, please contact us at 1-866-723-6486 or call an authorized servicer in your area.

**Note:** The same symptoms occur if the lamp unit isn't seated correctly, lamp access door is ajar, or lamp power supply needs service. Make sure the lamp access door is completely closed and the lamp unit is seated correctly.

#### What to do

- If your TV is still covered by the warranty, we will refer you to a service person who will replace the lamp for you. Call 1-866-723-6486.
- If your TV's warranty has expired, call 1-800-338-0376 to order a new lamp, and you can install it yourself using the directions that follow.

The lamp has been designed to make installation as easy as possible, but if you don't follow the directions, there is a risk of burn injury or electric shock. If you don't feel comfortable replacing the lamp, call 1-866-723-6486 to have a qualified technician install the new lamp unit (a fee will apply).

**IMPORTANT PRECAUTIONS:** Before you begin, make sure you read and understand all of the instructions. If you need any clarification, call 1-866-723-6486 for help. You must follow all the instructions step by step. TTE Technology, Inc. cannot be held responsible for failure to adhere to the safety measures described herein, the safety measures on the back panel of the TV, and any other reasonable safety practices and precautions.

**Note:** Lamp contains a small amount of mercury which can be considered hazardous if improperly handled or disposed. Take proper precautions to ensure that the lamp does not break during handling. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

#### IMPORTANT: Wait 30 Minutes Before You Replace the Lamp

The lamp unit's temperature can reach 200 degrees. Unplug the TV and allow the lamp to cool thoroughly (for at least 30 minutes) before you remove the burnt-out lamp.

- Don't remove the lamp access door or remove the inoperative lamp unit until you have a replacement lamp (this will reduce the risk that children or pets will come into contact with the hot lamp, and will keep foreign objects and dust out of the lamp unit.)
- Never allow children or pets to play with the lamp access door at any time.
- Use only a genuine RCA lamp replacement unit.

A flat-head screwdriver

• There are no user serviceable parts within the lamp unit itself. Don't attempt to repair the lamp unit – attempting to do so may cause injury, and will void your warranty.

What you'll need to	get started:	•		
A flashlight				

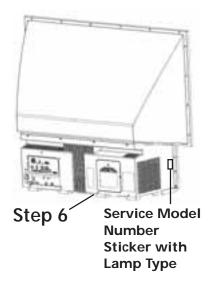
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#### References

\_\_\_\_ The correct lamp replacement unit. To order the correct lamp, you'll need to know your TV's model number, serial number, and lamp type—this information is listed on the Service Model Number sticker (example of the sticker is shown at right). The sticker is located on the right side of the TV (see picture below for sticker location).

\_\_\_ The box that the lamp replacement unit came in.

- 1. Read the precautions listed above.
- 2. Make sure your hands are dry and clean before you begin replacing the lamp.
- 3. Unplug the TV's power cord from the wall outlet (or power strip). Unplug the power cord from the back of the TV.
- **4.** Put the power cord far away from the TV. Taking this precaution will ensure that no one plugs in the TV if you walk away from it, or when you're waiting for the lamp unit to cool, or when you're installing the new lamp.
- 5. Wait 30 minutes so the lamp can thoroughly cool. If you don't wait at least 30 minutes, you risk getting injured!



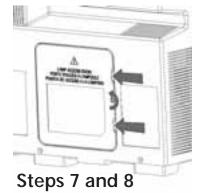
**6.** After 30 minutes, go to the back of the TV set and find the lamp-unit access door (located in the lower right side of the TV). Read the precautions on the door (you may need a flashlight).

EXAMPLE: Service Model Number

sticker with lamp

type listed.

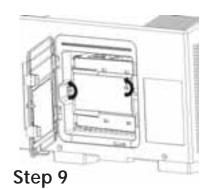
**Note:** Do not attempt to repair the lamp. Do not open the lamp assembly unit — leave the lamp in its casing.



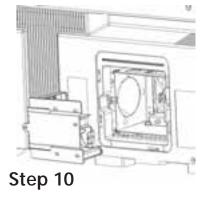
7. Loosen the screw on the door (don't remove the screw, just loosen it).

**Note:** Don't use a coin to loosen the screw because the coin could fall into the TV.

**8.** Press the catch tabs near the screw you just loosened (one tab is above the screw and one is below), and remove the entire lamp access door. Place the door to the side (don't put it on the floor or anywhere someone might step on it or accidentally break the tabs).



**9.** Loosen the two screws on the lamp unit inside the TV (the screws stay with the unit so just loosen them, don't remove them).



- **10.** As you remove the lamp, pay attention to how the lamp fits so that you can use the proper orientation when you're installing the new lamp. To remove the lamp unit:
  - grasp the handles and pull straight back to remove the entire lamp assembly unit from the TV.
  - place the old unit out of the way where it won't get broken or dropped.
- 11. Remove the new lamp assembly unit from its packaging.
- **12.** Make sure the lamp unit is oriented in the correct position, and gently slide it into the lamp access opening as far as it can go (it fits snugly).
- 13. Tighten the two screws on the new lamp unit.
- 14. Put the old lamp unit into the box in which the new lamp unit was packaged.
- 15. Replace the lamp access door (the TV won't turn on unless this door is in place and properly attached).
  - a. Insert the catch tabs (also called latches) into the slots on the left side of the lamp access compartment first. Then put the rest of the door in place by rotating the door until it is fully closed and the latches are engaged.
  - b. Tighten the screw.
- 16. Plug the power cord into the back of the TV first and then back into the wall outlet strip.
- 17. Turn on the TV.
- **18.** After the TV warms up (up to 60 seconds), you should see a picture. If you don't see a picture, check the following:
  - Make sure TV is plugged in.
  - Make sure you've tuned the TV to a valid channel.
  - Try turning on the TV both ways: with the remote control, and then with the power button on the front of the TV.
  - Make sure the lamp unit access door is properly and completely closed.
  - Make sure the screws are completely tightened.
  - Unplug the power cord from the TV and from the power outlet. Return to step 7 and make sure the lamp unit is fully seated in the housing.
  - If the TV still doesn't come on, you need to have the unit professionally serviced. See your warranty.

# References

# **HDTV Specifications**\*\*

Tuning Capability	Channel Tuning Digital Cable Compatibility	64 QAM - 256, QAM, HDMI/DVI,
Video	3:2 Pull Down (Film Mode)	Reverse Diagonal
	4:3 Format Control (Screen)	
	Adaptive Video Noise Reduction	Yes
	Adjustable Color Warmth	Yes
	Adjustable Picture Control	Yes
	Auto Color Control	Yes
	Auto Flesh	
	Comb Filter	Digital Frame Comb (3D Y/C)
	Contrast Expand	9
	Optimum Contrast, High-Resolution Screen	
	Edge Enhancement	
	Green Stretch	
	Horizontal Resolution (Picture Width)	1280
	Horizontal Viewing Angle (Alpha H)	80°
	Hybrid Lens System	
	Picture Presets	
		Cinematic (Night), Videogame,
	Light Engine Type	•
	Picture Screen Pitch	0 0
	Scan Rate Converter	
	Vertical Viewing Angle (Alpha V)	
	Wide Band Video Amplifier	
	wide baile video impinei	
Sound	Audio Power (Watts) Front Speakers	20 Watts/Channel
	Balance Control	Yes
	Broadcast Stereo w/dbx <sup>†</sup> Noise Reduction	Yes
	Sound Presets	7 plus Personal
	Front Speakers	2 Mid/Tweeter/Pass Rad
	Fully Enclosed Speaker System	Yes
	Graphic Equalizer	
	Matrix Surround Sound	Yes
	Second Audio Program (SAP)	Yes
	Sound Logic Audio Leveler	Yes
	SRS	Yes

<sup>†</sup> dbx is a registered trademark of Carillon Electronics Corporation.

<sup>\*\*</sup>Specifications are subject to change.



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# **Limited Warranty**

#### What your warranty covers:

• Defects in materials or workmanship.

#### For how long after your purchase:

- One year from date of purchase for labor.
- One year from date of purchase for parts.
- One year from date of purchase for light engine and lamp assembly.

The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

#### What we will do:

Pay an Authorized Service Center the labor charges to repair your unit.

Pay an Authorized Service Center for the new, or at our option, refurbished replacement parts, light engine, and lamp assembly required to repair your unit.

#### How you get service:

- Call 1-866-SCENIUM and have your unit's date of purchase and model/serial number ready.
- A representative will troubleshoot your problem over the phone.
- If the representative determines that you should receive service, they will provide you with the name(s) of the Authorized Service Center in your area.
- Contact the Service Center and arrange for home or pick up, repair, and return service, provided that your unit is located within the geographic territory covered by an Authorized Service Center. If not, you must take your unit to the Service Center location at your own expense, or pay for the cost the Service Center may charge to transport your unit to and from your home.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

#### What your warranty does not cover:

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Damage resulting from non-approved installation methods.
- Signal reception problems not caused by your unit.
- Damage from misuse or neglect.
- Batteries.
- Labor to replace the light engine and lamp assembly after one year from the date of purchase.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- A unit purchased or serviced outside the U.S.A.
- Acts of nature, such as but not limited to lightning damage.

#### **Product Registration:**

 Please complete and mail the Product Registration Card packed with your TV or register on-line at www.rcascenium.com/productregistration. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

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#### References

#### Limitation of Warranty:

- THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TTE TECHNOLOGY, INC., IT'S AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.
- REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TTE TECHNOLOGY, INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

#### How State Law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

#### If you purchased your unit outside the United States:

• This warranty does not apply. Contact your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

# Care and Cleaning

CAUTION: Turn OFF your TV before cleaning.

You can clean the TV as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

The TV's screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water.

Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV.

While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, avoid placing drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV.

# **FCC Information**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This Class B digital apparatus complies with Canadian ICES-003

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