RC/I SCENIUM HDTV User's Guide











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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). With the exception of the lamp, 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. Special disposal of the lamp for environmental reasons may be required under the laws applicable to your jurisdiction. 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, cabinet, 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 Consumer Electronics product may also be registered at www.rcascenium.com/productregistration. Returning the card allows us to contact you if needed.

Product Information

Serial No .

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. ______

Purchase Date:

Dealer/Address/Phone:

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The TV Guide On Screen system is manufactured under license from Gemstar-TV Guide International, Inc. and/or one of its related affiliates.

The TV Guide On Screen system is protected by one or more issued United States patents 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

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VCR required for recording.

Thank you for choosing RCA Scenium

Congratulations on purchasing this RCA Scenium High Definition Television (HDTV) featuring Texas Instruments Digital Light Processing[™] 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 HDTV featuring DLP™ technology is an excellent choice:

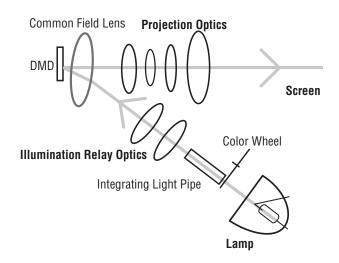
Part 1: DLP™ technology-brilliance in color and design

Part 2: Why RCA Scenium HDTV is better

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

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

RCA Scenium brings you pictures with 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 | |
|------------------|--|
| Lamp Type | |
| Date | |

How DLP™ Technology Works

In general, DLP™ technology combines microscopic mirrors, a specially designed semiconductor, and a color wheel to adjust light to display the most brilliant, accurate images! Your HDTV with DLP™ technology 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 instructions that come packed with the new lamp. 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). Face the back of the TV. 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 76 for more information. For future reference, write down the information in the space provided at the left.

Digital Light Processing, DLP, the DLP logo, and the DLP medallion 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 HDTV is better

DLPTM technology 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 almost 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 Scenium 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, which means there is 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).

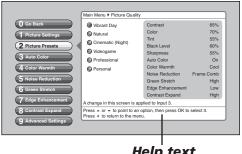
Note: A digital cable card may be necessary to view scrambled (encrypted) channels. Contact your cable provider for more information. Go to page 10 for more information.

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.

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

Introduction







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.
- TV Guide On Screen™ System: The on-screen programming Guide helps you navigate through channels so you can quickly see what's on and tune directly to a specific show from the Guide! You can use the Search feature to search listings. You can even set up reminders to watch a show at a certain time and record an upcoming show.

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 Scenium added AUDIO/VIDEO OUTPUT jacks to this HDTV. These jacks enable you to record both analog and digital programs. We understand how you watch TV and what's necessary to make the transition to HDTV seamless.

TV Guide On Screen System is a registered trademark of Gemstar-TV Guide International, Inc.

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Chapter 1: Connections and Setup

Chapter Overview:

- **♦** Things to Consider Before You Connect
- **♦** Choose Your Signal
- Choose Your Connection
- Why You Should Connect the G-LINK Cable
- ♦ 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
- ♦ What To Expect
- ♦ Next Steps
- Explanation of Jacks
- ♦ The Front of Your TV

Things to Consider Before You Connect

Protect Against Power Surges

- Connect all devices before you plug any of their power cords into the wall outlet or power strip. NEVER plug your TV into an outlet that is controlled by a wall switch.
- Turn off the TV and/or device(s) before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions sheet packed with your TV.

Protect Devices from Overheating

- Don't block ventilation holes on any of the devices. Arrange the devices so that air can circulate freely.
- Don't stack devices.
- If you place devices in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other devices.

Position Cables Properly to Avoid Audio Interference

Insert each cable firmly into the designated jack.

Use Indirect Light

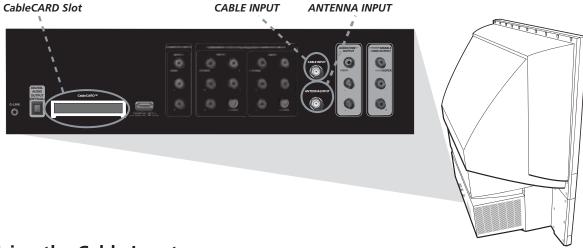
Don't place the TV where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

CableCARD Service Details

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information, call your local cable operator.

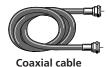
Choose Your Signal

The first part of connecting your TV is to get a signal. The back panel of your TV allows you to connect cable by using the CABLE INPUT; off-air antenna by using the ANTENNA INPUT; and a digital cable card by using the CableCARD slot. See below for these locations.



Using the Cable Input

Connect a coaxial cable from the wall outlet to the CABLE INPUT on the back of the TV to receive cable channels.



What You Need

Coaxial cable

What You Need To Know

- If you have cable connected and you want to record programs, go to the connection on page 14 for more information.
- When you get to the *Channel Search* screen in the Assisted Setup, place a check mark in the box next to *Cable Input*. To complete a channel search now, go to page 21.
- When you are ready to watch channels, make sure you are tuned to the Cable Input. Press the ANT•CAB button to tune to the Cable Input.

Using the Antenna Input

Connect a coaxial cable from an off-air antenna to the ANTENNA INPUT to receive off-air channels and local digital channels.



Indoor antenna

What You Need

Indoor or outdoor antenna

What you Need to Know

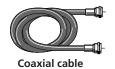
- Visit www.antennaweb.org to get help deciding what type of antenna to use to receive the local digital channels available to you. By entering where you live, this mapping program tells you what local analog and digital stations are available using a certain antenna. Once you determine what type of antenna you need, go to rea.com or go to the accessories on page 86.
- When you get to the *Channel Search* screen in the Assisted Setup, place a check mark in the box next to *Antenna Input*. To complete a channel search now, go to page 21.
- When you are ready to watch channels, make sure you are tuned to the Antenna Input. Press the ANT•CAB button to tune to the Antenna Input.

Using the CableCARD Slot

The CableCARD slot allows you to use a digital cable card to receive digital cable services, including premium and HDTV cable channels, without the need for a set-top box. Please contact your local cable company to obtain a digital cable card. Depending on your cable company, someone might come to your home to install the digital cable card for you, or they'll simply send you the digital cable card.

Important Note: CableCARD service details, availability, restrictions, and pricing are determined by your cable company.

When you receive the digital cable card, make sure you connect your coaxial cable to the CABLE INPUT jack. Then, turn on your TV. Insert the digital cable card into the slot on the back of the TV labeled *CableCARD*. Push firmly on the card until almost the entire card is inserted. Wait to receive information on-screen regarding your digital cable television services. See below for information on setting up digital cable television services for your TV.



What You Need

- Coaxial cable
- Digital cable service subscription
- Digital cable card



What You Need to Know

- The coaxial cable from your cable outlet needs to be connected to the CABLE INPUT jack so the digital cable card can get a signal and receive channel information.
- Once the digital cable card is authorized for a particular TV, the card can't be used with any other TV, unless it is re-authorized to it.
- You won't receive digital cable channels if you connect your cable to the ANTENNA INPUT. Make sure you connect your cable to the CABLE INPUT.
- Once inserted, it is not recommended you remove the digital cable card. In the case it needs to be removed, grasp firmly, and pull the card straight out.

Setting Up Digital Cable Television Service

Once you have inserted a digital cable card into the CableCARD slot on the back of the TV (explained above), you are ready to receive digital cable channels. Wait approximately 30 seconds for the status screen to appear. Write down the information you see and call your cable company to provide them with the information on-screen.

If you experience problems with your digital cable after your digital cable card is set up, try resetting your card. Go to page 71 for more information. If problems persist, contact your cable company.

Notes: If your information screen disappears before you have a chance to write down the information, press MENU on the remote to access the menu system. Then press 9, 9, 9, and the information screen appears. Go to page 71 for more information on the CableCARD Tools menu.

You can't order video-on-demand through your digital cable card. Call your local cable company to place an order.

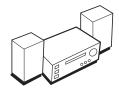
Choose Your Connection

There are several ways to connect your HDTV, depending on the devices you want to connect and the quality of the signal you want to achieve. The HDMI/DVI and component jacks are considered excellent; S-Video is very good; composite jacks are good, while connecting devices to the Antenna or Cable input is fair.

Please use the following chart to determine which connection is best for you. Cables may be ordered separately by calling the number on page 86. Proceed to the appropriate page and connect your TV.

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 <u>www.rcascenium.com</u>.

| Jacks Used | Cables Needed | Go to |
|--|------------------------|------------|
| Y Pb Pr Audio R and L | Component video Audio | page 12-13 |
| PR S-VIDEO | | nago 14 15 |
| Video Audio R and L Audio R and L R Audio/Video Output | 2 sets of Composite | page 14-15 |
| HDMI/DVI HDMI/DVI INPUT Use menu for DVI audio. | HDMI™ | page 16-17 |
| Use menu for DVI audio. | OR | |
| | HDMI | |
| | HDMI/DVI™ adapter | |
| | Audio | |



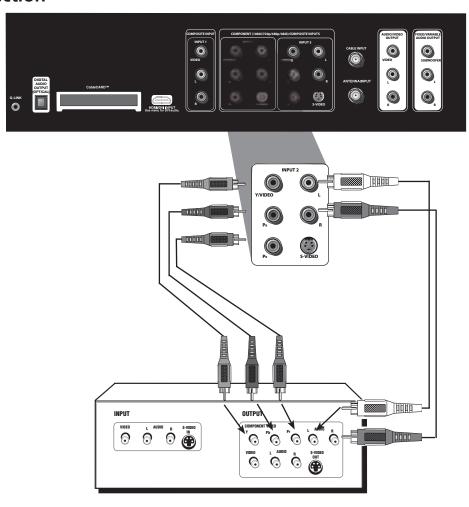
Connecting an optional audio receiver:

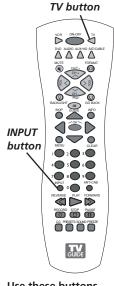
After you connect your TV (choose an option above), go to page 18 for general information about connecting an audio/video receiver.

HDMI and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

DVI is a trademark of the Digital Display Working Group (DDWG)

Y Pb Pr Connection





Use these buttons to view the picture of the device you've connected to the TV.

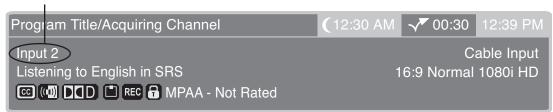
Viewing the Picture from Connected Device

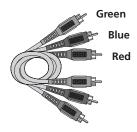
The device in this connection is connected to the TV's INPUT 2 jacks. To view this device:

- 1. Turn on the TV and the device you want to view, for example a DVD player.
- 2. Press the TV button on the remote control to put the remote in TV mode.
- 3. Press the INPUT button on the remote control to scroll through the Video Input Channels until you see *INPUT 2* displayed in the channel banner. See picture below for location.

Note: You can set up the TV to automatically tune to the correct device you want to view. This is called Auto Tuning. See Chapter 3 for more information on Auto Tuning.

Input channel appears here





Component Video cables (Y Pb Pr) are color coded- Green, Blue and Red



Audio cables are color coded- Red= right audio; white= left audio

Connecting the Device

This connection allows you to connect a device that has Y Pb Pr jacks, for example, a DVD player. If the device you are connecting also has S-Video or composite video, we recommend you use the component video input for better quality.

Using the example of a DVD player:

- 1. Connect your cable and/or off-air antenna as described on page 9.
- 2. Connect your Y Pb Pr component video cables.

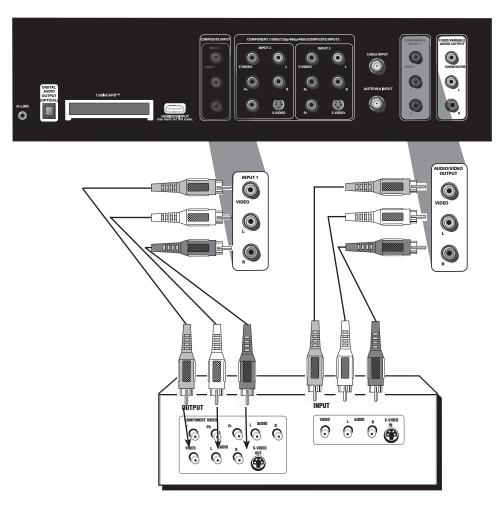
Connect three video grade cables to the INPUT 2 Y/VIDEO P_B P_R jacks on the back of the TV and to the Y P_B P_R outputs on the DVD player.

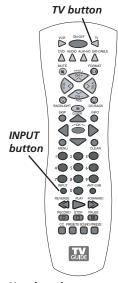
3. Connect your audio cables.

Connect the audio (white and red) cables to the INPUT 2 R and L Audio jacks on the back of the TV and to the Audio Output jacks on the DVD player.

- If you are done connecting devices to your TV, go to page 21 to complete the Assisted Setup.
- To continue connecting devices, go to the next page.
- If you don't have the cables needed for this connection, go to page 86 for accessory information.

Audio/Video Input and Output Connection





Use these buttons to view the picture of the device you've connected to the TV.

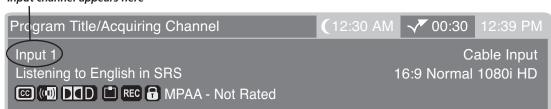
Viewing the Picture from the Connected Device

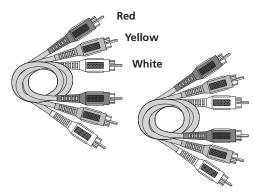
The device in this connection is connected to the INPUT 1 jacks. To view this device:

- 1. Turn on the TV and the device you want to view.
- 2. Press the TV button on the remote control to put the remote in TV mode.
- 3. Press the INPUT button on the remote control to scroll through the Video Input Channels until you see INPUT 1 in the channel banner. See picture below for location.

Note: You can set up the TV to automatically tune to the correct device you want to view. This is called Auto Tuning. See Chapter 3 for more information on Auto Tuning.

Input channel appears here





Use one set of composite audio/video cables to connect to the TV's input; another set to connect to the TV's output.

Composite cables are color coded-Yellow= video; Red= right audio; white= left audio

Connecting the Device

This connection allows you to connect a device such as a VCR that has audio/video inputs and outputs. Connecting to the TV's output allows you to record both analog and digital programs (except copy protected or component video formats).

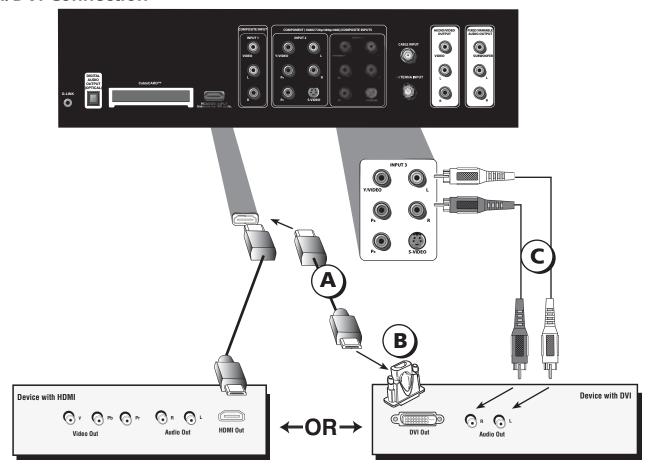
Using the example of a VCR:

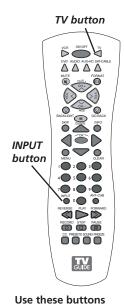
- 1. Connect your cable and/or off-air antenna as described on page 9.
- 2. Connect your composite audio/video cables to the TV's input.

 Connect composite audio/video cables to the TV's INPUT 1 jacks (R and L-Audio, and Video) and to the VCR's audio/video outputs.
- **3.** Connect your composite audio/video cables to the TV's output.

 Connect composite audio/video cables to the TV's AUDIO/VIDEO OUTPUT jacks (R and L-Audio, and Video) and to the VCR's audio/video input.
- 4. **Connect the supplied G-LINK cable.** If you want to use one-touch VCR recording and timed recordings, you need to connect the G-LINK cable. Go to page 19 for more information.
 - If you are done connecting devices to your TV, go to page 21 to complete the Assisted Setup.
 - To continue connecting devices, go to the next page.
 - If you don't have the cables needed for this connection, go to page 86 for accessory information.

HDMI/DVI Connection





to view the picture of the device you've

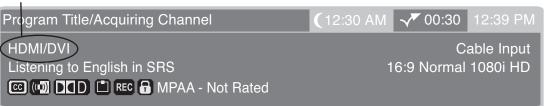
Viewing the Picture from the Connected Device

The device in this connection is connected to the HDMI/DVI jack. To view this device:

- 1. Turn on the TV and the device you want to view.
- 2. Press the TV button on the remote control to put the remote in TV mode.
- 3. Press the INPUT button on the remote control to scroll through the Video Input Channels until you see *HDMI/DVI* displayed in the channel banner. See picture below for location.

Note: You can set up the TV to automatically tune to the correct device you want to view. This is called Auto Tuning. See Chapter 3 for more information on Auto Tuning.

Input channel appears here

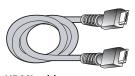


connected to the TV.

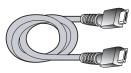
Connecting the Device

High-Definition Multimedia Interface (HDMI) is 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 devices that have a DVI jack.

Note: The HDMI/DVI jack is not intended to be used with a computer.

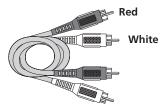


HDMI cable



HDMI cable





Audio cables are color coded- Red= right audio; white= left audio

• Connect your device that has an HDMI jack using an HDMI cable.

Connect an HDMI cable to the HDMI/DVI INPUT jack on the back of the TV and to the HDMI Out jack on the back of the device.

OR

- Connect your device that has a DVI jack using an HDMI cable and an HDMI/DVI adapter.
 - A. Connect an HDMI cable to the HDMI/DVI INPUT jack on the back of the TV.
 - B. Attach an HDMI/DVI adapter to the end of the HDMI cable, then connect the adapter to the DVI Out jack on the back of the device.
 - C. Since you're using an HDMI/DVI adapter, you need to connect Audio left and right cables to the R and L jacks on the back of the device and to R and L Audio jacks that aren't in use on the back of the TV.

Note: If the device you're connecting has a digital audio output jack, connect a digital audio cable from the device to an audio receiver for digital audio.

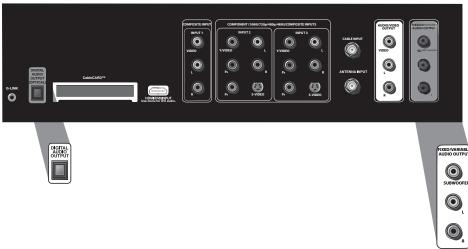
D. After you've completed the on-screen Assisted Setup (page 21), go to the *DVI Audio Input* option in the *Audio Connections* menu to select which Audio Input jack you're using. In the example on the opposite page you would choose INPUT 3.

- If you are done connecting devices to your TV, go to page 21 to complete the Assisted Setup.
- To find out more about connecting audio/video receivers, go to the next page.
- If you don't have the cables needed for this connection, go to page 86 for accessory information.

Advanced Audio Connection Information

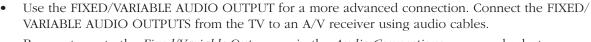
With the audio versatility of your HDTV, you can choose various connection options depending on the type and quality of sound that you want. From good to best sound, choose one of the options or refer to the user's manual of each device that you are connecting to get the best results.

- Use your TV's internal speakers (good sound).
- Connect an audio receiver (speakers connected to receiver) to your TV (better sound).
- Connect an audio receiver (speakers connected to receiver) to your TV using the DIGITAL AUDIO OUTPUT (OPTICAL) jack (best sound)



Connecting Your TV to an Audio/Video Receiver

For better sound quality than the TV's internal speakers, connect to an audio receiver using audio cables to the TV's AUDIO OUTPUT jacks.



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. Go to page 69 for more information.

- Variable Output provides variable-level audio output. Volume levels are controlled by the TV's volume.
- 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.
- 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. Go to page 69 for more information.

Connecting Your TV to a Receiver with Dolby® Digital

If you own a receiver with Dolby® digital decoding or PCM (Pulse-Code Modulation) that uses an optical cable-type input, connect an optical cable for excellent audio quality.

- Connect one end of the optical cable to the DIGITAL AUDIO OUTPUT (OPTICAL) jack on your TV and to the Digital Optical Input jack on your receiver/amplifier receiver.
 - Connections, then Digital Audio Output. Select AutoSelect (recommended) or PCM.

White

Audio cables are color coded- Red= right audio; white= left audio





cable

• If your receiver can decode Dolby digital and PCM, go to Audio menu, select Audio

• If your receiver can decode only PCM, select PCM.

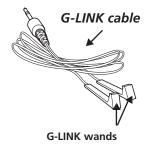
Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

Why You Should Connect the G-LINK Cable

The supplied G-LINK cable enables the TV Guide On Screen system (the on-screen interactive program guide) to work with your VCR and/or cable box.

Cable Box – If your TV is connected to a cable box, you must connect the G-LINK cable to receive TV program listings for your area and to tune directly to a channel when the TV Guide On Screen system is on.

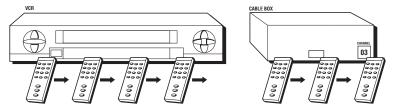
VCR – If your TV is connected to a VCR and you don't connect the G-LINK cable, one-touch VCR recording and timed recordings won't work. The other features of the TV Guide On Screen system will work properly.



How to Find the Remote Sensor

You have to place the G-LINK wands in front of the remote sensor on the VCR and/or cable box. Some cable boxes and VCRs have the remote sensor labeled on the unit. If the remote sensor isn't labeled on your VCR and/or cable box, you need to use the remote control that came with the VCR and/or cable box to locate the sensor.

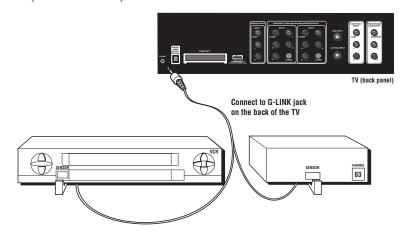
- 1. Turn off the VCR and/or cable box.
- 2. Hold the remote control (**not** the one that came with your TV, but the one that came with the cable box and/or VCR to which you're attaching the G-LINK cable) so that it is touching the front of the device.
- 3. Slowly move the remote control across the front of the device (VCR or cable box) while you continually press the power button. You must press and release the power button each time you move the remote (holding down the button won't work).



4. When the device turns on, you've located the VCR's or cable box's remote sensor.

Placing the G-LINK Wands

Place the G-LINK wands in front of the remote sensor on your VCR and/or cable box approximately one inch away from the remote sensor (see below).



Tips

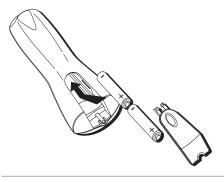
If you have both a VCR and a cable box, it doesn't matter which wand is connected to which box.

If you don't have both a cable box and a VCR connected to your TV, just coil the cable of the extra G-LINK wand with a twist tie and leave it behind the TV.

Plug in the TV

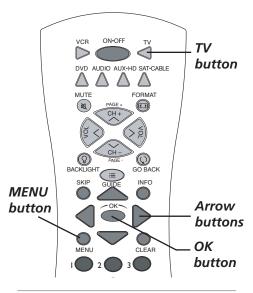
Plug the flat end of the cable into the power jack on the back of the TV. Then plug the other end of the power cord into an appropriate wall outlet. Be sure to insert the plug completely. Do not plug the TV into an outlet controlled by a light switch.

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. This happens only when the TV is unplugged and plugged back in. The TV can only be turned on after the Power indicator goes off.



Tip

When remote batteries are low, the device 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 initial 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 the 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.

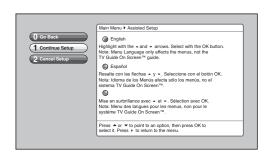
To use the TV's menus, first press the TV button on the remote control to put the remote in TV mode. When the Assisted Setup screen appears, use the arrow buttons to highlight one of the items listed in the menu. Use the up or down arrow button to move up or down. Use the right or left arrow button to move right or left.

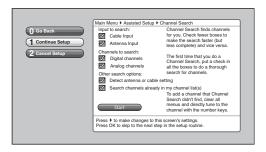
To select the item that you've highlighted, press OK.

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 customize your TV's features. On-screen information helps you choose settings to match your setup. The first time you turn on your TV, the *Assisted Setup* screen appears automatically. Select *Begin Setup* to start or select *Cancel Setup* to exit.





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.

Tip

If you move to a new ZIP or postal code, or if any of your information changes and you need to access the setup screens from the TV's main menu— press MENU, choose TV Guide Menu, and choose TV Guide Setup, then choose "No, repeat setup process."

Set the Menu Language

- 1. Use the arrow buttons to highlight your preferred language for the menu system.
- 2. Press OK to select that language.
- 3. Press the left arrow button to highlight *Continue Setup* and press OK to continue.

Complete Channel Search

Even though this initial channel search can take several minutes, it is important to complete in order for your TV to display channels and programming. Make sure you have connected cable and/or off-air antenna to the corresponding inputs before you start channel search.

1. Press the right arrow button to access the channel search screen, then use the up and down arrow buttons to choose an option. Press the OK button to toggle the option on (check mark in box) or off.

To do a 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 check mark in the box.

Note: If a cable box is connected to your TV's CABLE INPUT, or the CableCARD slot is in use, don't check the Cable Input box.

- 2. Press the down arrow to highlight *Start* and press OK to begin the setup.
- 3. When the channel search is complete, a message screen appears. Select *Continue* and press OK to setup the TV Guide On Screen system.

Note: If you skip Channel Search now, you can access it later through the Connections menu. See Chapter 4 for more details.

The TV Guide On Screen System Setup

Important Notes: If you have a VCR and/or cable box connected to the TV, you need to connect the G-LINK cable to use the TV Guide On Screen system. If you didn't connect the G-LINK cable, go to page 19.

The TV must be off to download TV Guide On Screen program listings. Leave your TV when it's not in use. It may take up to 24 hours to start to receive the initial download for your area. It may take up to one week to receive tall eight days of TV program listings.

The TV Guide On Screen interactive program guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air broadcast. It does not provide listings for satellite services.

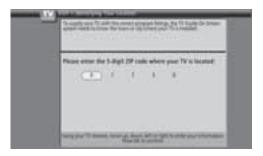
The TV Guide On Screen system is a no-fee, on-screen interactive program guide that lists what shows are on TV in your area. In order to receive program listings, you need to complete the following steps after you've read through the introductory screens.



Step 1: Identifying Your TV's Location

1. If your country is highlighted, press OK on the remote control.

If your country isn't highlighted, press the up or down arrow button on the remote control to highlight your country and press OK.



2. Use the number buttons and/or the arrows on your remote to enter your zip code or postal code. Press OK when you're finished.

Note: If your postal code contains letters, press the up and down arrow buttons on your remote to enter letters, and press the right arrow button to go to the next space. The left arrow button also moves the highlight to the left.



Step 2: Configuring for Cable

The next series of screens asks you about your cable setup. To supply your TV with the correct TV program listings, the TV Guide On Screen system needs to know if your TV is connected to cable.

Note: If you're using a cable box, always leave it on so you can receive program information.

1. If your TV is connected to cable, highlight *Yes* and press OK.

If your TV isn't connected to cable, highlight *No* and press OK. (*STEP 3: Configuring for Antenna* appears—go to page 24).



2. If you have a cable box connected to this TV, highlight Yes and press OK.

Note: The next series of screens is very important because the TV Guide On Screen system must find the correct cable box information in order to receive the correct TV program listings.

If you don't have a cable box connected to this TV, highlight *No* and press OK (*STEP 3: Configuring for Antenna* appears—go to page 24).

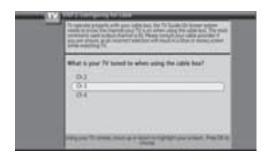


3. Highlight the input where you connected your cable box to the TV, and press OK.

If you select Cable Input, continue to step 4.

If you select any other option, go to step 5 on the next page.

Important Note: Your cable box can't be connected to ANTENNA INPUT if it is to be controlled by the TV Guide On Screen system.



4. Highlight the channel you have to tune your TV to see cable box programming, and press OK (a screen appears reminding you to connect your G-LINK cable to your TV and cable box).

Notes: This screen only appears if Cable Input was selected in the previous screen.

Channel 03 is the most common.



Highlight your brand of cable box, and press OK.
 If your brand isn't listed, highlight *Not Listed* and press OK.



6. Make sure your cable box is on.

Tune the cable box to channel 02 (use the remote control that came with your cable box, or press the channel buttons on the cable box).

Press OK (the TV Guide On Screen system starts testing codes).

Important Note: When code testing is in progress, don't touch your TV, cable box or any of the remote controls for these products. Make sure the placement of the G-LINK wand is in front of the remote sensor on the cable box. Go to page 19 for more information.



7. Look at your cable box. If it is still on and changed to channel 09, the test was successful. Highlight *Yes*, and press OK (*STEP 3: Configuring for Antenna* appears).

If your cable box didn't change to channel 09 or turned itself off, you have two choices: *No* and *Test this code again*.

Test this code again: If the G-LINK wand is out of place, position it correctly (go to page 19 for an example). If you think the TV, the cable box, or any of the remote controls might have been touched or bumped during the test, highlight *Test this code again* and press OK (the TV Guide On Screen system runs the same set of codes).

No: If you don't think the test was interrupted, highlight *No* and press OK (TV Guide On Screen system tests the next code).

Repeat the previous instructions until the TV finds the correct cable box code. Follow the instructions on the screen.

Note: If the TV can't find your cable box code, a troubleshooting checklist appears. Carefully review the checklist and follow the instructions on the screen.



Step 3: Configuring for Antenna

If you have an antenna connected to your TV, press OK to select Yes and continue.

If you don't have an antenna connected to your TV, press the down arrow button to highlight *No* and press OK to continue.

Note: If you have two off-air antennas connected and you're not getting channel listings after setup is complete, try swapping the antennas.



Step 4: Confirming Your Settings

The next screen allows you to review what items you've set so far during the setup. Review each item, and press OK to continue. If any items are incorrect, press the down arrow to highlight *No, repeat setup process*, and press OK to start over. There may be a slight delay before the setup screen appears.



Step 5: Configuring for a VCR

1. If your TV is connected to a VCR and you want the TV Guide On Screen system to work with your VCR for recording, press OK (a screen appears reminding you to connect your G-LINK cable to your TV and VCR).

If you don't have a VCR, or you don't want the TV Guide On Screen system to work with your VCR for recording, highlight *No* and press OK (*STEP 6: Confirming Your Settings* appears—go to page 25).



- 2. Use the up and down arrow buttons to highlight the brand of your VCR that is connected to the TV and press OK.
 - If your brand isn't listed, highlight Not Listed and press OK.



- 3. Keep the VCR on. Insert a tape and press play. When you complete these steps, press OK to begin testing.
 - *Important Note:* When code testing is in progress, don't touch your TV, VCR, or any of the remote controls for these products.



Tips

Leave your cable box turned ON all the time in order to receive listings and record shows.

Leave your VCR turned OFF to record programs.

4. If your VCR stopped playing the tape, the test was successful. Highlight *Yes* and press OK.

If your VCR didn't stop playing the tape, you can either choose *No* or *Test this code again*.

If the G-LINK wand is out of place, position it correctly (go to page 19 for an example). If you think your TV or remote might have been touched during the test, make sure the VCR is on and playing a tape. Highlight *Test this code again*.

If you don't think the test was interrupted, highlight *No*. Make sure the VCR is playing a tape and is on. Press OK (the TV Guide On Screen system starts testing another set of codes).

Keep following the previous instructions until the TV finds the correct code for the VCR.

Note: If the TV Guide On Screen system can't locate the correct code for the VCR, a list of troubleshooting instructions appear to help you before you try again.

- Try VCR configuration again: repeat VCR setup.
- Test alternate codes: tests selected brands and if this fails, the test continues with all codes in the system.
- Skip this step: the TV Guide On Screen system won't be able to automatically schedule programs to record on your VCR.



Step 6: Confirming Your Settings

Check to make sure all settings are complete and correct. If all settings are complete, highlight *Yes, end setup* and press OK. If your cable box and/or VCR code testing failed, you should see *INCOMPLETE* where the cable box and VCR codes are listed. Once setup is complete, additional screens appear.

If any settings are incomplete or incorrect, highlight *No, repeat setup process* and press OK. Follow the instructions on the screen.

What To Expect

The next time you turn on your TV after setting up the TV Guide On Screen system, the Guide will appear on the screen. The following examples explain what you might see:

- If all of the program information has been sent to your TV, the TV Guide On Screen system appears with all of your TV program listings.
- If the program information hasn't been sent to your TV yet, an outline of the TV Guide On Screen system (without TV program listings) will appear on the screen. Program information is usually sent several times a day. Turn off your TV when it's not in use to receive updated listing information.
- If more than one cable company services your area, or your cable provider has multiple service levels for your area, you may be prompted to choose your Channel Lineup. A channel lineup represents the specific service you receive at your location. On this screen you might have to choose between cable providers and service levels from your provider. In most cases you will have at least two choices, but in larger cities you may have several. Selecting the provider and service level that you have allows the TV Guide On Screen system to download listings that precisely match the programming you receive. If you aren't sure of your specific service, you may need to repeat this procedure until you receive current program listings.

Features of the TV Guide On Screen system are explained in Chapter 3.

To clear the guide from your screen, press CLEAR or GUIDE on the remote control.

Watching TV

If you have both analog and digital cable channels these will be put into the same channel list. To tell the difference between these channels, press the INFO button and look in the channel banner for these things: a subchannel, the format, and resolution the TV is receiving.

- Analog channels only display one channel number. Digital channels received through the digital cable card also have one channel number. Digital channels received through cable have a primary channel and a subchannel. In the example below, 6 is the primary channel; 1 is the subchannel.
- Analog channels are sent in a 4:3 format. Digital channels can be sent in a format of 4:3, but usually 16:9.
- Analog channels are sent in a resolution up to 480i. Digital channels are sent in a resolution of 480i, 480p, 720p, 1080i, or 1080p.



Changing Channels

Depending upon the type of signals you have connected to your HDTV, you might notice that the channels change slower than you're used to. This is perfectly normal. Digital cable channels sometimes take longer to tune.

Some channels might be found during the channel search that aren't available. Some channels are enabled by the cable company that don't carry programming, such as video-on-demand. When channels are unavailable, your TV's screen displays *Unusable signal*. You probably want to get rid of these so they no longer appear in your channel list. Remove these in the *Channel List* menu. Go to page 53 for more information.

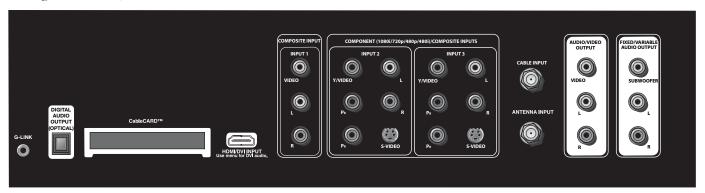
Next Steps

Now that you've finished the *Assisted Setup*, you're ready to watch TV. This might be a good time to program your remote control. The remote control that came with this TV can be programmed to operate other devices. Go to the next chapter to find out how to program your remote. Continue to the next few pages to learn more about the back panel and front of your TV.

- Chapter 2: Using the Remote Control
- Chapter 3: Using the TV's Features
- Chapter 4: Using the TV's Menu System
- Chapter 5: Other Information

Explanation of Jacks

The diagrams below illustrate jacks found on the back of the TV. When connecting cables, be sure to connect corresponding outputs and inputs (video input into video out, right audio input into right audio out, etc.).







G-LINK Connect the G-LINK cable for VCR one-touch recording and/or cable box control with the TV Guide On Screen system.

DIGITAL AUDIO OUTPUT (OPTICAL) Use a digital optical cable (or SPDIF cable) to connect your TV to a compatible Dolby Digital or PCM receiver or decoder. Dolby Digital Technology 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. Go to page 69 for more information.

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 beadphones or speakers.



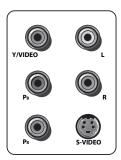


CableCARD Allows you to use a digital cable television card to receive digital cable services, including premium and HDTV cable channels, without the need for a set-top box. Go to page 10 for information on using the CableCARD slot.

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 devices.

Notes: The HDMI/DVI jack is not intended to be used with a computer. If you connect a device with a DVI jack to the HDMI/DVI input, you'll need an HDMI to DVI adapter. Also, since DVI only carries the video signal, you'll need to connect audio cables to an input that is not in use. An example is shown on page 16. Then go to the Audio Connections menu and select DVI Audio Input to choose the input you're using to receive audio.





Tip

Inputs 2 and 3 can be used as either component video (Y PB PR) inputs, composite video (Y/Video) inputs, or S-Video inputs.

CABLE INPUT





VIDEO/AUDIO INPUTS

INPUT 1 COMPOSITE INPUT Connect an NTSC (analog) device. These jacks are used for most audio/video connections between devices. 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.

INPUT 2 COMPONENT/COMPOSITE INPUT Provides connection to a second NTSC (analog) video device with either composite or component outputs such as a VCR or DVD player.

- **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_B P_R Unlike a single video input, component (Y P_B P_R) 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_B P_R connections. Accepts 480i, 480p, 720p, and 1080i signals. If you're connecting to a device with a Video jack instead, you can still use the Y/Video jack.

Note: Also, remember to connect the left and right audio cables because the *Y*, *Pb*, *Pr* cables carry only the picture signal, not the sound.

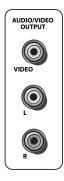
• **S-VIDEO** Lets you connect an S-Video cable for better picture quality to a device with S-Video capability, such as a VCR or DVD player. When using S-Video, make sure to connect the two audio cables as well as the S-Video connector.

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 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.

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.





AUDIO/VIDEO OUTPUTS

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.

FIXED/VARIABLE AUDIO OUTPUTS

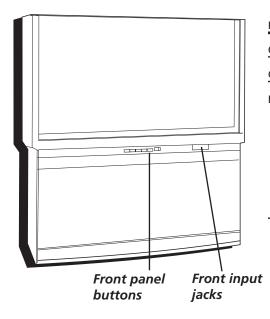
• **SUBWOOFER** Provides lower bass frequencies out from the TV to a powered subwoofer or audio receiver with a subwoofer jack.

Note: Go to Fixed/Variable Output in the Audio Connections menu to set option to Yes if an external subwoofer is being used.

R and L Provides right front and right rear mixed sound to the right input, and left front and left rear mixed sound to the left input.

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.

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 device 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 may be open. Locate the door on the back of the TV and close it. Turn off the TV and turn back on. The lamp should turn on. |
| | Lamp may be dead. You can replace the lamp yourself. Go to page 83 for lamp replacement 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.

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.

Note: 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.

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 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 cooldown 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 cooldown, 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.

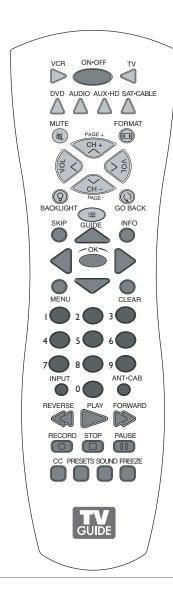


Chapter 2: Using the Remote Control

Chapter Overview:

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

Using the Remote Control



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. A warning banner may also appear on the screen when you press a remote button and your batteries are low.

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

The Buttons on the Remote Control

Arrows (up, down, left, right) Used to move through the on-screen menus.

(0-9) Number Buttons Enter channel numbers and time settings.

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

AUDIO Places the remote in audio mode to operate a device (such as a audio receiver, or amplifier receiver) that you've programmed to work with this button. This button lights when you press a valid button in AUDIO mode (see *Modes of Operation* on page 38 for more details).

AUX•HD Places the remote in auxiliary mode to operate a device (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 an RCA HDTV Tuner. This button lights when you press a valid button in AUX•HD mode (see *Modes of Operation* on page 38 for more details).

BACKLIGHT Press to illuminate some of 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.

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. Pages up and down through *Listings* in the TV Guide On Screen system.

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. This button lights when you press a valid button in DVD mode (see *Modes of Operation* on page 38 for more details).

FORMAT Toggles through video screen formats- Normal, Cinerama (only available for 4:3 formats), FlexWide, Zoom, and Auto Format.

FREEZE Freezes entire screen. Caution: When recording from VIDEO OUTPUT, freezes the video you're recording.

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

GUIDE Brings up the TV Guide On Screen system with the *Listings* screen displayed.

INFO Brings up the Channel Banner with channel and viewing information. Press again to remove the banner. In the TV Guide On Screen system, displays additional Help information for a highlighted item, if available.

INPUT Toggles through the TV's available input sources (INPUT 1, INPUT 2, INPUT 3, 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.

MENU Makes *Main Menu* appear and disappear. In the TV Guide On Screen system, displays more options for the highlighted item.

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 may be 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•CABLE, AUX•HD, AUDIO), and if programmed, turns the device on and off.

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 • CABLE (Satellite • Cable) Places the remote in SAT • CABLE mode. If Auto Tuning is enabled, turns on the TV and tunes it to the correct Video Input Channel. This button lights when you press a valid button in SAT • CABLE mode (see *Modes of Operation* on page 38 for more details).

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.

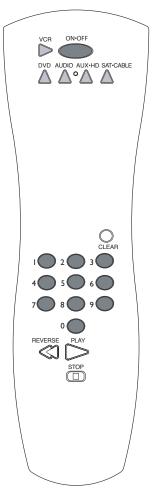
SOUND On digital channels/inputs, toggles the available Audio Modes. For analog channels, toggles SAP on or off. If you change channels/inputs, the default for Audio Mode or SAP is restored. Does not affect default menu settings for *SAP* or *Audio Mode*.

TV Places the remote in TV mode. Turns on the TV and tunes to the last-viewed TV channel or input. This button lights when you press a valid button in TV mode (see *Modes of Operation* on page 38 for more details).

VCR Places the remote in VCR mode. If Auto Tuning is enabled, turns on the TV and tunes to the VCR Video Input Channel. This button lights when you press a valid button in VCR mode (see *Modes of Operation* on page 38 for more details).

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.

Chapter 2 35



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.

Programming the Remote to Operate Other Devices

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

The AUX•HD button can be programmed to operate most brands of an additional remote-controllable device: satellite receiver, cable box, DVD, VCR, and an audio device. A second and third RCA TV can be programmed to any device button, except the TV button. Go to page 72 for more information on programming the remote to another TV.

Note: The TV button can't be programmed on this remote to control any device; 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 devices connected to your TV, such as a VCR, do the following:

- 1. Turn on the device (in this example, a VCR).
- 2. Point the remote at the device.
- 3. Press the corresponding device 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 devices: *Automatic Code Search* and *Direct Entry*.

Using Automatic Code Search

Note: The AUX•HD button can only search VCR codes, but can be used for a non-VCR device by programming it with direct entry method. By default, the AUX•HD button is programmed for an RCA HDTV Tuner.

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

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

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

At this point the remote is searching for the correct code to program. If, after 5 seconds, the device 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 device turns off or you have searched through all of the codes. The device buttons flash when all codes have been searched, the device button turns off, and remote exits Automatic Code Search.

If the device 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 device button on the remote turns off.

Using Direct Entry

- 1. Turn on the device you want to operate (VCR, DVD player, etc.)
- 2. Look up the brand and code number(s) for the device on the code list in this section.
- 3. Press and hold the device 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 device button, point remote at device, and then press ON•OFF to see if the device responds to the command. If it doesn't, try pressing the device button and then ON•OFF again.
- If you get no response, repeat these steps using the next code listed for your brand, until the device responds to the remote commands.
- If you try all the codes for your device 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 device.

How to Use the Remote After You've Programmed It

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

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

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

If you keep pressing buttons and nothing happens, the remote is probably in the wrong mode. You must press the device button that matches the device 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.)

Chapter 2 37

Modes of Operation

Because this universal remote can control several different devices (DVD player, VCR, cable box, etc.) it uses operational modes triggered by the device buttons. For example, if you want the remote control to operate the TV, press the TV button to put the remote into TV mode. If you want the remote to operate the VCR, press the VCR button.

The button corresponding to the mode the remote is in lights up when you press any button that works in that mode. For example, if you're in TV mode and you press the VOL+ button, the TV button lights up. This tells you that the command to increase the volume is being sent to the TV (and not the satellite receiver, for example).

Volume Punchthrough Feature

You may find this feature helpful if you've connected your devices 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 a device that is connected to the audio/video 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.

- IMPORTANT: First, you must program the AUDIO button on the TV's remote control to operate your audio receiver
 or amplifier. Go to page 36 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 devices.
- 3. Decide which mode the remote will be in when the volume from the audio receiver "punches through." The mode will be one of the device buttons (TV, DVD, SAT•CABLE, VCR, or AUX•HD).
- 4. Press and hold the VOL- button. Keep pressing VOL- while you press and release the device button you chose in step 3 (TV, DVD, SAT•CABLE, or AUX•HD).
- 5. Press and release the AUDIO button since the sound will be coming from the audio/video receiver. Release the VOLbutton.
- 6. Now, test it by turning on your audio receiver or amplifier.
- 7. Turn on the device 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 device button of the Volume Punchthrough lights). While holding the VOL- button, enter the code, 000, using the number buttons. All device 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 device 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 device (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•HD 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 device (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.

Remote Code List

Audio Codes Programmable for the AUDIO and AUX•HD AUX/Dimensia/Lyra Wireless Audio Cassette GE4006 Receiver/Tuner/AMP Aiwa 4008. 4009, 4010, 4011, 4012, 4021 JVC4013 Optimus 4028 Panasonic 4023, 4024 RCA 4003, 4015, 4029, 4030 Sherwood 4026

| Programmable for SAT | CABLE and AUX•HD |
|----------------------|--------------------------------|
| buttons. | |
| ABC | .5002, 5003, 5004, 5006, 5045 |
| Archer | 5008, 5009 |
| Cableview | 5007 |
| Contec | 5015 |
| Eastern | 5016 |
| GE | 5002, 5003 |
| Gemini | 5017, 5018 |
| | 5003 |
| | . 5019, 5020, 5021, 5026, 5033 |
| | 5003 |
| | , 5017, 5022, 5023, 5039, 5045 |
| | 5024 |
| Memorex | 5026 |
| | 5025 |
| | 5005 |
| | 5025 |
| | 5015, 5027 |
| | 5041, 5044 |
| Philips | 5011, 5012, 5013, 5014, |
| | . 5018, 5024, 5028, 5029, 5030 |
| | 5031, 5032 |
| | 5002, 5003 |
| | 5007, 5040, 5042, 5044 |
| | 5009 |
| | 5032 |
| | 5006, 5034, 5035, 5036 |
| Signature | 5003 |
| | |

| sprucer | |
|------------------------|------------------------------------|
| Standard Component | 5037, 5038 |
| Starcom | 5017, 5045 |
| Stargate | 5017 |
| | 5004, 5022 |
| United Cable | 5045 |
| Universal | 5008, 5009, 5010 |
| View Star | 5015, 5024, 5025 |
| Zenith | 5043 |
| HD Re | eceiver Code |
| | V Codes7000 |
| AUX•HD, and AUD TV2 | DVD, VCR, SAT • CABLE, DIO buttons |
| | |
| | |
| | |

Sprucer

5044

Chapter 2 39

DVD codes

| Programmable for DVD and AUX• | HD l | outto | ns. |
|-------------------------------|---------|--------|-------|
| Aiwa | | .3010, | 3021 |
| Apex | | .3023. | 3024 |
| Broksonic | | | |
| Daewoo | | | .3028 |
| Denon | | | |
| Emerson | .3032. | 3033. | 3076 |
| Funai | | | .3033 |
| GE | 3000. | 3034. | 3035 |
| Go Video | | | .3077 |
| Hitachi3009, 3067, | 3068. | 3069. | 3070 |
| JVC | | | |
| Kenwood | | | |
| Konka | | .3012, | 3013 |
| Koss | | | .3085 |
| Lasonic | | | .3087 |
| Magnavox | | .3004, | 3036 |
| Memorex | | | .3037 |
| Mintek | | | .3038 |
| Mitsubishi | | | |
| NAD | | | |
| Norcent | | .3039. | 3040 |
| Onkyo | | | |
| Oritron | | | |
| Panasonic | | | |
| Philips | | | |
| Pioneer | | | |
| Proscan | | | |
| Owestar | | | |
| RCA | | | |
| Samsung | | | |
| Sansui | | | |
| Sanyo | | | |
| Sharp | | | |
| Sony 3007, 3016, 3017, 3054, | 3055 | 3056 | 3083 |
| Sylvania | | | |
| Teac | | | |
| Technics | | | |
| Toshiba | | | |
| Yamaha | | | |
| Zenith | | | |
| | . 5017, | 5005, | 5001 |
| Portable DVD | | | |
| Aiwa | | | |
| Audiovox | | | |
| Panasonic | | | |
| RCA | | | |
| Sharp | | | .3051 |
| * | | | |

DVD/VCR Combo Codes

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

| DVD | .VCR |
|-------------------|-------|
| .3075 | .2075 |
| .3076 | .2076 |
| .3077 | .2077 |
| .3078 | .2078 |
| .3079 | .2079 |
| .3080, 3081 2080, | 2081 |
| .3082 | .2082 |
| .3083 | .2083 |
| . 3084 | .2084 |
| | .3075 |

PVR Codes

| Programmable | for the VCR and AUX•HD |) |
|--------------|---------------------------|---|
| buttons. | for the voic and from the | |
| PVR | | |
| Replay | | |

Home Theatre in a Box (DVD Receiver) Codes

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

| | Audio | DVD |
|-----------|-------|------|
| | 4031 | |
| | 4032 | |
| | 4033 | |
| Onkyo | 4034 | 3091 |
| Panasonic | 4035 | 3092 |
| Pioneer | 4036 | 3093 |
| RCA | 4037 | 3094 |
| Venturer | 4038 | 3095 |
| | | |

Satellite Receiver Codes

| Programmable for SAT • CABLE a | and AUX•HD | |
|--------------------------------|------------|----|
| buttons. | | |
| Alphastar | | |
| Chapparal | 5046, 50 | 47 |
| Dishnet | 50 | 63 |
| Drake | 5048, 50 | 49 |
| Echostar | | |
| GE | | |
| General Instruments | | |
| Hitachi | 5066, 50 | 67 |
| Hughes | | |
| JVC | | |
| Panasonic | | |
| Philips | | |
| Primestar | | |
| Proscan | | |
| RCA | | |
| Realistic | | |
| Sony | | |
| STS1 | | |
| STS3 | | |
| STS4 | | |
| Toshiba | | |
| Uniden | 50 | 69 |

VCR Codes

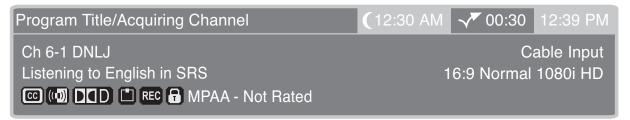
| Programmable for VCR and AUX•HD butt | ons |
|---|---------|
| Admiral | |
| Aiko | |
| Aiwa | |
| Akai | |
| Audiovox | |
| Bell & Howell | |
| Broksonic | |
| Calix | |
| Canon 20 | |
| Capehart | |
| Carver | |
| CCE. 20 | |
| Citizen2009, 2010, 2011, 2012, 2013, 2014, 20 | |
| Colortyme | 2005 |
| Colortyme | 19 2036 |
| Curtis-Mathes | 09 2012 |
| 2014, 2017, 2018, 2020, 20 | |
| Daewoo2011, 2013, 2015, 2021, 2022, 20 | |
| Daytron | |
| Dimensia | |
| Electrohome | |
| Emerson | |
| | |
| | |
| Fisher | |
| Fuji | |
| Funai | |
| Garrard | |
| GE2000, 2001, 2009, 2017, 20 | |
| 20 | |
| Gradiente | 2022 |
| Harman Kardon | |
| Harwood | |
| Hitachi2033, 2034, 2035, 2053, 20 | |
| JC Penney2005, 2006, 2007, 2008, 200 | |
| 2017, 2018, 2030, 2033, 2034, 2036, 20 | |
| Jensen | |
| | - , |
| | |

| Kenwood | 2005, 2006, 2007 2005, 2006, | 2007, | 2012, | 2014, 2057, |
|-----------------------|---|------------------|----------------|---------------------------|
| KLH Kodak | | | | 2036 . 2010, 2017 |
| Logik | | | | 2036 |
| Magnavox | 2017, 2018, | 2037, | 2038, | 2052, 2054, |
| Marantz Matsushita | 2005, 2006, 2007 | , 2012, | 2014, | 2017, 2037 |
| Memorex | 2007, 2009, | 2010, | 2017, | 2019, 2022, 2052, 2068 |
| Minolta | | | . 2033, | 2034, 2053 |
| | , 1 | 2040, | 2041, | 2059, 2064 |
| Motorola | ard | | | 2017, 2068 |
| Multitech | 2009 | . 2012. | 2022 | 2031. 2036 |
| Nikko | | | | 2010 |
| Optimus | | | | 2010, 2068 |
| Panasonic | | 2017, | 2018, | 2055, 2066 |
| Pentex Researc | 2012 h | | | 2014 |
| Philips | | 2017. | 2037, | 2047, 2065 |
| Portland | | 2012, | 2013, | 2015, 2056 |
| Quasar | 2000, | | . 2017, | 2018, 2066 |
| | 2033, 2034, 2060, 2063, 2066 | 2043, , 2070, | 2044, 2072, | 2045, 2053, 2073, 2079 |
| Radioshack/Res | alistic | 2007 | 2009 | 2010 2017 |
| Realistic | 2018, 2019 2007, 2018, 2019, 2022 | 2009, | 2010, | 2011, 2017, |
| Radix | | | | 2010 |
| Runco | 2004, 2009, | | | 2052 |
| Sansui | | 2006. | 2046, | 2057, 2064 |
| Sanyo Scott | 2008, 2011, 2021 | 2007, , 2026, | 2009, | 2019, 2082 2039, 2061 |
| | 2029 | , 2030. | . 2033, | 2034, 2053 |
| Shintom | 2013 | 2003, | , 2034, | 2036, 2049 |
| Singer | 2003 | | . 2017, | 2036, 2071 |
| STS Sylvania | 2017, 2018, 2022 | , 2037, | 2038, | 2017, 2053 2039, 2065 |
| Tandy | | | | 2007 |
| Tatung | | | | 2057 |
| Technics | | | | . 2017, 2055 |
| Toshiba | 2011, 2029 | , 2030, | 2033, | 2039, 2059 |
| Vector Research | 1 | 2005, | 2006, | 2011, 2012 |
| Wards | s2005 .2009, 2010, 2011, | 2017, | 2019, | 2022, 2024, |
| XR-1000 | , 2034, 2036, 2047 2005 | | . 2017, | 2022, 2036 |
| Zenith | 2003, 2049 | , 2052, | 2062, | 2071, 2084 |

Chapter 3: Using the TV's Features

Chapter Overview:

- **♦** About the Channel Banner
- **♦** Digital or Analog TV Channels
- **♦** About the TV Guide On Screen System
- Parental Controls
- ♦ How V-Chip Works for the USA and Canada
- **♦** Auto Tuning Feature
- **♦** Emergency Alert System (EAS)



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.

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.

Ch 6-1 DNLJ 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 device 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 (High Definition) or SD (Standard Definition). 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.

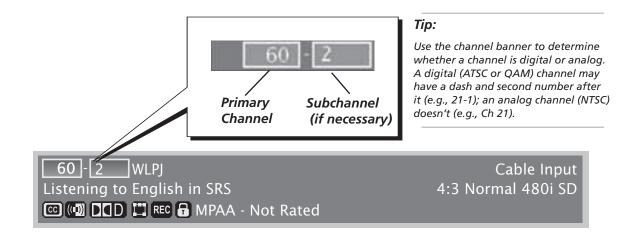
Parental Control icon is displayed red and locked when the TV is locked, green and unlocked when the TV is unlocked, and yellow and unlocked when the TV is temporarily unlocked.

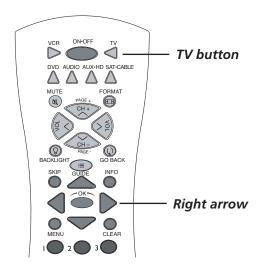
MPAA - Not Rated V-chip program rating (not the TV's rating set up in Parental Control menu).

Digital or Analog TV Channels

A single off-air antenna can pick up both analog and digital channels. Digital channels can be made up of primary channels and subchannels.

Note: Subchannels (sometimes called minor channels) are channels associated with the Primary channel (sometimes called the major channel). A primary channel may have just one subchannel or multiple subchannels.





Tip

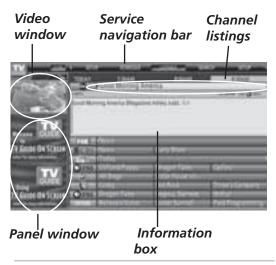
If a digital and analog channel have the same primary channel number, tune to the analog channel by entering the analog channel number or entering the analog channel number and then a subchannel of "0."

Direct Tuning to a Channel

- 1. Make sure the remote is in TV mode by pressing TV on the remote control.
- 2. Enter the primary channel number. This number appears in the primary channel entry box. Press OK or wait a few seconds. If you don't enter a subchannel, the TV tunes to the lowest digital subchannel.
- 3. If the primary channel number has fewer than six digits (for cable), or two digits (for antenna) and you want to enter subchannel numbers, press the right arrow button to advance to the subchannel entry box.
- 4. Enter the number of the subchannel. This number appears in the subchannel entry box.
- 5. Press OK to tune to the channel or wait a few seconds and the TV tunes to the channel.

Notes: You can always use the channel up and down buttons on the remote control to change channels within the TV mode.

If you wait too long before entering the subchannel, the TV tunes to the lowest digital subchannel.



Tips

The TV Guide On Screen system automatically comes up when you use the TV or ON/OFF button on the remote to turn on the TV. You can turn off this feature by selecting Setup, highlight Change default options and press OK. Highlight General default options and press OK. Press the down arrow button to highlight auto guide, select off, and press OK.

Also, since the program information provided by the TV Guide On Screen system is based on your locale, you will need to run Setup again if you move to a different ZIP or postal code.

About the TV Guide On Screen System

The TV Guide On Screen system is a no-fee, on-screen program guide that lists TV schedules for your area and enables your TV to directly control a cable box and/or recording device. You must first set up the TV Guide On Screen system in order to view this on-screen program guide (see Chapter 1 for details).

There are five sections of the TV Guide On Screen system:

- A video window
- Service navigation bar- Listings, Search, Setup, and Schedule
- Channel listings
- Panel window
- Information Box

Notes: Whenever the TV Guide On Screen system is activated in the TV, the last-viewed channel appears in the video window.

The TV Guide On Screen system screens illustrated in this book are representations of what you are likely to see. Not all channels, programs, and TV Guide On Screen information depicted will be available in your area. New features and options can be downloaded to the TV Guide On Screen system, so these are subject to change also. The TV Guide On Screen interactive program guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air broadcast. It does not provide listings for satellite services.

Using the TV Guide On Screen System

To enter the TV Guide On Screen system, use one of the following ways:

- Press GUIDE and the TV Guide On Screen system appears.
- Press MENU on the remote and select TV Guide Menu. Then select TV Guide On Screen.

To exit the TV Guide On Screen system, use one of the following ways:

- Highlight a program and press OK to tune to the program (channel).
- Press GUIDE to tune to the program (channel) displayed in the video window.
- Press CLEAR to return to the original channel.

The TV Guide On Screen System Services

The TV Guide On Screen system offers different options on the Service navigation bar: *Listings*, *Search*, *Setup*, and *Schedule*. To use the Service navigation bar:

- 1. Press GUIDE (the TV Guide On Screen system appears with the program you're watching highlighted).
- 2. To access the Service Navigation bar, press the up arrow button (*Listings* is highlighted).
- 3. Use the left and right arrow buttons to access other services.
- 4. Press the down arrow button to view options of the service you've highlighted.

5. To quickly access the Service navigation bar when exploring the TV Guide On Screen system, press the MENU button, highlight *go to Service bar*, and press OK.

There are two different ways to view more service options:

- Highlight a service item and press the MENU button. If available, options appear in the panel window on the left side of the screen associated with the service item.
- Highlight an item within the service you've chosen, for example, a program, and press the MENU button. Options appear in the panel window associated with the program.



Listings

Listings appears each time you enter the TV Guide On Screen system. It displays the current programming for each channel, and up to eight days of listings. The current program is displayed in the video window. To use Listings, here are some different options:

- Press the up and down arrow buttons on the remote to browse channel listings and the channel up and down arrow buttons to page through the listings. Use the right arrow button to browse future program listings.
- To tune to a channel you want to view, highlight the program in the channel listings and press OK.
- To quickly access a channel listing, press the down arrow button to enter the channel listings area. Use the number buttons to enter the channel. The *Shortcuts* panel menu appears. Press OK to view the channel. To access an ATSC digital channel, look for the subchannel under the channel in the Listings.

To use the Listings panel menu, see the descriptions that follow.

Listings Panel Menu

Listings has two different kinds of panel menus, depending on what you've highlighted.

With *Listings* highlighted, press the MENU button. The *Listings Options* panel menu appears on the left, with *video* highlighted.

- Press the right arrow to lock or unlock the video window. Press OK (*done* is highlighted). Press OK again to go back to the listings.
- Press the down arrow to highlight *edit channels* and press OK. The *Channel Editor* screen appears to edit channels, go to *Setup* for more information.

With a program highlighted, press the MENU button. The Listings *Episode Options* panel menu appears on the left with *watch now* highlighted (or *tune to channel* highlighted if the program is on at a later time).

- Press OK to watch the channel highlighted in the listings.
- To set a recording or reminder, see the following instructions.



Set Recording

There are various ways from within a service to set a recording. Those will be referenced later and you'll be referred back to these instructions. To set a recording, highlight a program from *Listings*, for example, and press MENU. The *Episode Options* panel menu appears.

1. Highlight *set recording* and press OK. The *Record Options* panel menu appears.

- 2. Press the left or right arrow button to select a frequency. Choose *once* to record the show one time; *regularly* to record the show every time the show is on at the current time and channel; *weekly* to record every time the show is on at the current day, time and channel; or *off* if you want to set a recording to be stored in the schedule but don't want it recorded. When the frequency is selected, press the down arrow to highlight *start*.
- 3. Press the left or right arrow button to select a start time. The right arrow goes forward in time, the left arrow button goes back in time. Choose up to 120 minutes early or 120 minutes late or On time. When start time is selected, press the down arrow button to highlight end.
- 4. Press the left or right arrow button to select a time you want recording to end. The right arrow button goes forward in time, the left arrow button goes back in time. The time options are the same as in step 3. Press the down arrow button to highlight *recorder*.
- 5. If you have more than one recording device, press the right arrow button to select which one you want to use with the TV Guide On Screen system. If your recording device is a VCR, press OK once it's selected and the highlight moves to *schedule recording*. Press OK to save the recording.

A record icon appears next to the program after a recording has been set. The icons and explanation follow.

Set Recording Icons

Each time you set a recording, an icon appears next to the program.

- Displayed if *once* was chosen through a schedule recording.
- Displayed if *regularly* was chosen through a schedule recording.
- Displayed if *weekly* was chosen through a schedule recording.
- Displayed if off was chosen through a schedule recording.
- Displayed if *daily* was chosen through a manual recording. Go to page 50 for more information on manual recordings.
- Displayed if a schedule conflict has occurred.



Set Reminder

There are various ways from within a service item to set a reminder. Those will be referenced later and you'll be referred back to these instructions. To set a reminder, highlight a program from *Listings*, for example, and press MENU. The *Episode Options* panel menu appears.

1. Highlight *set reminder* and press OK. The *Remind Options* panel menu appears.

- 2. Press the left or right arrow button to select a frequency. Choose *once* to set a reminder one time; *regularly* to set a reminder every time the show is on at the current time and channel; *weekly* to set a reminder every time the show is on at the current day, time and channel; or *off* if you want to set a reminder to be stored in the schedule but don't want it activated. When the frequency is selected, press the down arrow to highlight *power on TV*.
- 3. Press the right arrow button to choose *Yes*, and the TV will turn on when the reminder begins, or choose *No*. Press the down arrow button to highlight *auto tune TV*.
- 4. For auto tuning to work, the TV must be on at time of the reminder. Press the right arrow button to choose *Yes*, and the TV tunes to the channel with a set reminder, or choose *No*. Press the down arrow button to highlight *when*.
- 5. Press the left or right arrow button to choose when you want the reminder screen to appear. Choose an option ranging from 30 seconds to 15 minutes early; 30 seconds to 15 minutes late; or On time.
- Press OK when complete and highlight moves to schedule reminder. Press OK again and your set reminder is saved.

A remind icon appears next to the program after a reminder has been set. The icons and explanation follow.

Set Reminder Icons

Each time you set a reminder, an icon appears next to the program.



Displayed if once was chosen through a schedule reminder.



Displayed if regularly was chosen through a schedule reminder.



Displayed if weekly was chosen through a schedule reminder.



Displayed if off was chosen through a schedule reminder.



Displayed if *daily* was chosen through a manual reminder. Go to page 51 for more information on manual reminders.

Search

The *Search* service item allows you to browse programs by different categories, such as HDTV, Sports, Movies, and Children's programs, alphabetically, or by keyword.

To search shows by category:

- 1. With *Search* highlighted, press the down arrow button, and the left or right arrow button if necessary, to highlight a category.
- 2. Press the down arrow button to select a sub-category within the category you selected, and press OK.
- 3. Highlight the program you want to watch and press OK. The *Episode Options* panel menu appears.
- 4. Press OK to tune to the channel.

To set a recording or reminder, go to previous page for more information.



To search shows alphabetically:

- 1. With *Search* highlighted, press the down arrow button, and the left or right arrow button if necessary, to highlight *Alphabetical*.
- 2. Press the down arrow button to access the letter area. Use the arrow buttons while in the letter area to choose a letter to search.
- 3. Press OK when you've chosen a letter.



To search shows using a keyword:

- 1. With *Search* highlighted, press the down arrow button, and the left or right arrow button if necessary, to highlight *Keyword*.
- 2. Press OK to display the Keyword Search panel menu.
- 3. Highlight new search and press OK.
- 4. Highlight *category* and press the left or right arrow button to select a category to search within.
- 5. Press the down arrow to highlight *enter keyword* and press OK.
- 6. Use the arrow buttons to highlight a character and press OK to select it (the character appears at the top of the keyboard search panel menu).
- 7. Continue to use the arrow buttons and OK to enter a character as part of your keyword search.
- 8. Highlight *Done* when you're finished and press OK.





Setup

The *Setup* service item allows you to access the TV Guide On Screen setup information. You can do the following in the *Setup* menu:

Change system settings Confirms the settings you completed in the TV Guide On Screen system setup are correct. Press OK to view your settings and display the following options:

- Yes, everything is correct Select to keep your settings as they are.
- *Yes, but my lineup is incorrect* Select to change your channel lineup.
- *No, repeat setup process* Select to go through the setup.

Change channel display You can customize the channel listings by enabling or disabling the display of certain channels. For instance, you may disable channels that you never watch. Any changes to *Channels* only affect the program guide display and not the channel lists in the television's *Main Menu*. Press the MENU button to view the channel display options:

- *channel* Choose *On*, the channel will always be displayed in *Listings*; *Off*, the channel is never displayed in *Listings*; and *Auto-Hide*, the channel is only displayed when program information is available.
- service Change your channel source. Choose from options: Cable, Cable Box, Over-The-Air, or Antenna.
- *tune channel* Change the channel number to the correct channel if your lineup is incorrect.
- *position* Use the number buttons to enter where you want the channel to appear in the channel listings. For example, if you want channel 13 to be the first channel that appears in the listing, enter 1.

Change default options Press OK to display the default options.

• General default options Press OK to display the General default options:

box size Choose how you want the information box displayed: No, Small, Large, and Last Used.

box cycle Choose how you want the information box to cycle through options when you press the INFO button: *No only, Small only, Large only, No & Small, No & Large, Small & Large,* and *All.*

auto guide On automatically displays the TV Guide On Screen system when you press the ON•OFF or TV button on the remote control; *Off* disables the TV Guide On Screen system from being displayed automatically each time you turn on the TV.

- **Record defaults** Set recording defaults so that each time you want to set up a recording, the information is already entered.
- **Remind defaults** Set remind defaults so that each time you want to set up a reminder, the information is already entered.



Schedule

The *Schedule* service item allows you to alter the programs for either viewing or recording programs. Highlight *Schedule* to display the programs. To select a different way to sort the schedule, highlight *Schedule* and press MENU. The *Schedule Options* panel menu appears with *sort by* highlighted. Choose *date* to display the programs by date and time with the most recent date and time first. Choose *title* to display programs in alphabetical order. Choose *event* to display programs by recordings grouped together and reminders grouped together. Look at the icon to tell if it's a recording or a reminder. See *Set Recording Icons* and *Set Reminder Icons* explained earlier in this section for more information.

To edit a recording set in the schedule, highlight the program and press MENU. The *Schedule Options* panel menu appears with options *watch now, delete recording*, and *edit recording* and *set reminder* (if no reminder has been set).

To edit a reminder set in the schedule, highlight the program with the reminder and press MENU. The *Schedule Options* panel menu appears with options *watch now*, *delete reminder*, and *edit reminder*.



Set Manual Recording

You can also set manual recordings through *Schedule*. Highlight *Schedule* and press MENU.

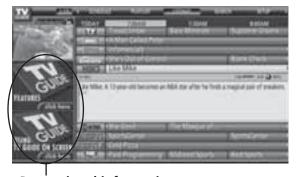
- 1. Press the down arrow button to highlight *new manual recording* and press OK. The *Record Options* panel menu appears.
- 2. Use the number buttons to enter the date. Enter 0 and 2 for the month of February, for example. Press the right arrow button to highlight the day option, and use the same method as entering the month. Press the right arrow button to highlight the year option. Press the right arrow button when the date is entered to highlight *start*.
- 3. Use the number buttons to enter the time you want the recording to begin. If the time is 1:30, enter the hour by pressing 0 and 1. Press the right arrow button to highlight the minute option and press 3 and 0. Press the right arrow to highlight am/pm option and continue to press the right arrow button to toggle between the choices. Press the down arrow button when the start time is entered to highlight *end*.
- 4. Follow the previous steps of entering the start time to enter the end time. Press the down arrow button when the end time is entered to highlight *channel*.
- 5. Use the number buttons to enter the channel you want to record from and press the right arrow button to highlight *input*.
- 6. Select the input where your recording device is connected and press the down arrow button to highlight *recorder*, if available.
- 7. If your recording device is a VCR, press OK once it's selected and the highlight moves to *schedule recording*. Press OK to save the recording.
- 8. Press the left or right arrow button to select a frequency. Choose *once* to record the show one time; *weekly* to record every Monday-Friday the show is on at the current day, time and channel; *daily* to record the show every day at that time and channel; or *off* if you want to set a recording to be stored in the schedule but don't want it recorded. When the frequency is selected, press the down arrow to highlight *schedule recording*. Press OK again to keep the set manual recording.



Set Manual Reminder

You can also set manual reminders through *Schedule*. Highlight *Schedule* and press MENU.

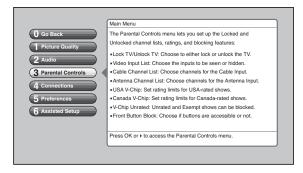
- 1. Press the down arrow button to highlight *new manual reminder* and press OK. The *Remind Options* panel menu appears.
- 2. Follow set manual recording steps 2-6 to set the date, start and end time, channel and input. When you've selected the input, press the down arrow button to highlight *power on TV*.
- 3. Press the right arrow button to choose *Yes*, and the TV will turn on when the reminder begins, or choose *No*. Press the down arrow to highlight *auto tune TV*.
- 4. For auto tuning to work, the TV must be on at time of the reminder. Press the right arrow button to choose *Yes*, and the TV tunes to the channel with a set reminder, or choose *No*. Press the down arrow to highlight *frequency*.
- 5. Press the left or right arrow button to select a frequency. Choose *once* to set a reminder one time; *weekly* to set a reminder every time the show is on at the current day, time and channel; *daily* to set a reminder for the show every Monday-Friday at that time and channel; or *off* if you want to set a reminder to be stored in the schedule but don't want it activated. Press OK to highlight *schedule reminder* and press OK again to keep the set manual reminder.



Promotional information

Promotions and Advertising

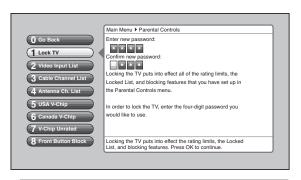
To find out more information about a program, advertisement or special, use the left arrow button to highlight the promotional information box. More information appears on the right in the expanded information box. Press the right arrow to close this box and return to the previous screen.



Parental Controls

The *Parental Controls* menu allows you to program your TV so that children cannot see certain programs, channels, or use the buttons on the front of the TV. The *Parental Controls* menu controls the software inside your TV (referred to as V-Chip) which lets you program your TV so it won't display certain programs and movies based on violence, sex, or other content you may believe children should not view. Once you block programs, you or other adults can unblock programs by entering a password to unlock video or enter the password to edit the features in the *Parental Controls* menu. By default, the software inside your TV is turned "off," so if you don't want to use this feature, you can just ignore it.

The options of the *Parental Controls* menu are *Lock/Unlock TV*, *Video Input List, Cable Channel List, Antenna Channel List, USA V-Chip, Canada V-Chip, V-Chip Unrated*, and *Front Button Block*.



Lock/Unlock TV

Selecting this option lets you lock and unlock the parental controls and the TV using a password. It locks or unlocks channel lists. If the TV is unlocked when watching TV, you only see the channels that have a check mark in the *Unlocked List* (see *Channel Lists* section below). If the TV is locked when watching TV, you only see the channels that are marked as Viewable in the *Locked List*. If the TV is locked, all channels can still be accessed by using the number buttons on the remote control but may not be viewed if they are blocked (enter password to see program).

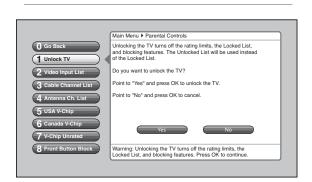
Notes: When locking the TV, you'll be asked to enter a password and then to re-enter the password a second time to re-confirm your password choice.

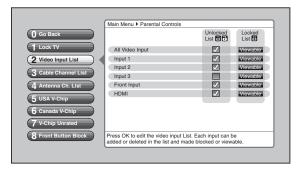
If you do not lock the TV, none of the settings for V-Chip, channel block, and front panel block take effect.

If you forget your password, simultaneously press and hold the MENU/OK button on the front panel and VOL-button on the remote for three seconds. This resets the password only and unlocks the TV; all other settings in Parental Controls are not changed.

Tip

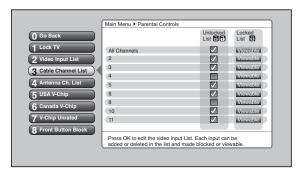
You must lock the TV for the parental controls settings to be enforced.

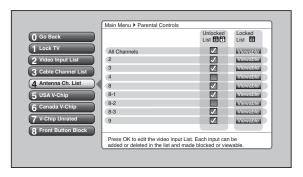




Channel Lists (Video Input List, Cable Channel List, Antenna Ch. List)

The channel lists contain the following information: major channel number, with subchannel number only if it's a digital channel; channel call letters, if available when channel is tuned; *Locked List*; and *Unlocked List*. The channels listed in *Cable Channel List* and *Antenna Ch. List* for off-air or cable sources are based on the channel search results. If a channel is not found by Channel Search, then it is not listed.





Editing Channels in the Channel Lists

Channels can be edited through the *Unlocked List* and *Locked List* in the *Cable* and *Antenna Channel List* menus. Use the *Unlocked List to* remove a channel if you no longer want it in your channel list because you don't like the program, for example. Remove or "hide" a channel from the *Unlocked List* by removing the check mark in the box. In the example to the left, channel 4 is removed from the *Cable Channel List*. If decide later you want to view channel 4, access it using the number 4 button on the remote.

Use the *Locked List* to block a channel in your channel list if you don't want children to view the channel, for example. Selecting *Blocked* in the *Locked List* to block a channel. In the example to the left, channel 8-2 is removed from the *Antenna Ch. List*. When the TV is locked, access the channel directly by using the number buttons on the remote control then enter your valid password to view the channel.

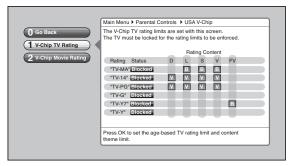
To save time, you can also add ALL or delete ALL channels in a list by changing the box or choice field in the line that says *All Video Inputs* or *All Channels* but be very careful because you could erase all of your selections.

Note: If a cable box is connected to the CABLE INPUT, the channel list can be edited for Cable Channel in the Cable Channel List menu. If a cable box is connected via INPUT1, the channel list cannot be edited.

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 blocked from 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

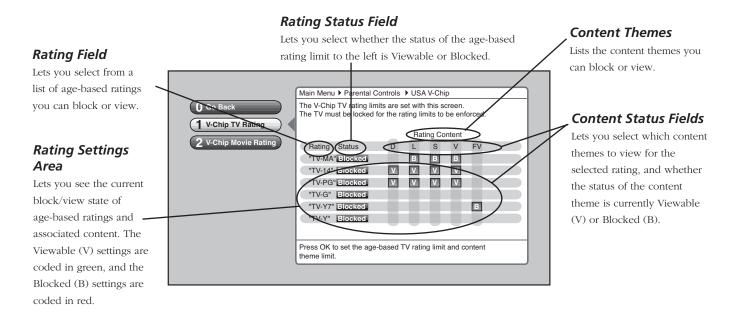
The *USA V-Chip TV Rating* lets you decide which TV programs can and cannot be viewed. To set TV programming limits:

- 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.

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 | Mature Audience Only . 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 | Parents Strongly Cautioned. 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 | Parental Guidance Suggested . 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 | General Audience . 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 | Directed to Children 7 years and older . 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 | All Children . 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.

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:

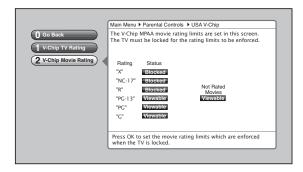
| Content Themes | |
|----------------|----------------------------|
| D | Sexually explicit dialogue |
| L | Adult language |
| S | Sexual situations |
| V | Violence |
| FV | Fantasy Violence |



- 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.

4. Select Lock TV from the Parental Controls menu. Enter a password and re-enter password a second time to confirm the password.



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. Lock the TV as described above for rating limits to 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.

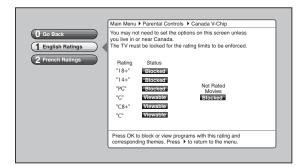
Lock the TV as described above for rating limits to take effect.

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 | Parental Guidance. 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 | General Audience. 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+ | Children 8 and Older. 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 | C (Children) 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. |

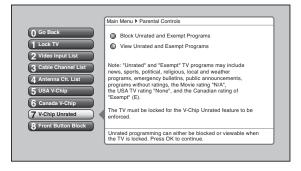
| Age-Based Rating | Canada V-Chip French Rating System |
|---------------------|--|
| 18+ | Adults. Programming is for adults only. This program contains sustained violence or extremely violent scenes. |
| 16+ | Viewers 16 and over. Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes. |
| 13+ | 13+ (Viewers 13 and over) 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+ | 8+ (Viewers 8 and over) 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 | G (General Audience) 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.



Front Button Block

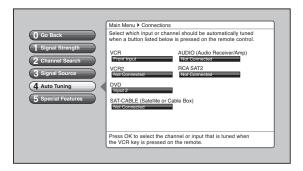
Selecting this option lets you block (disable) or unblock (enable) the TV's front buttons. The remote still tunes to any channel. *Front Panel Block* can:

- 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.





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 device's button. Auto Tuning for the TV button cannot be set.

Auto Tuning Feature

The way you set up the *Auto Tuning* feature in the TV's menu corresponds to the device buttons on the remote and the way you have each device 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, AUX•HD, or SAT•CABLE button on the remote control. This is especially useful for going directly to an input like HDMI/DVI.

Notes: The AUX•HD button by default is set up for an RCA HDTV Tuner receiver.

If you have two RCA satellite receivers, you can control each separately. Program the second receiver with the AUX•HD 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 device 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 device 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 device buttons on the remote.

Channel 2, 3 or 4 Cable Input Device 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 device's Channel 2/3 or 3/4 switch is set to match the channel you choose in *Auto Tuning*.

Channel 2, 3 or 4 Antenna Input Device 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 device's Channel 2/3 or 3/4 switch is set to match the channel you choose in *Auto Tuning*.

Input 1 Device is connected to the Input 1 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 3 Compatible video source, such as a DVD player or satellite receiver, is connected to the Input 2 or 3 *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 Device is connected to the *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 Device 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.

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.

Chapter 4: Using the TV's Menu System

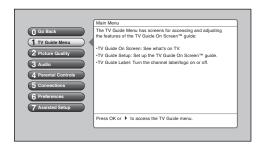
Chapter Overview:

- Menus, On-Screen Help, and Control Panels
- ♦ TV Guide Menu
- **♦** 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 3 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

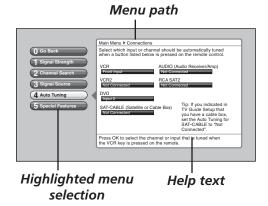
The first menu you see when you press the MENU button on the remote is called the *Main Menu*. To use the *Main Menu*:

- 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.



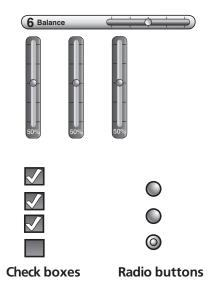
On-Screen Help

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 button 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.

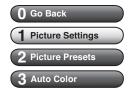
- 1. Use the arrow buttons to move left/right/up/down.
- 2. Press OK to select a radio button; press OK to select or de-select a check box.



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

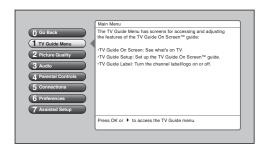
An on-screen button that performs the action labelled on the button is an action button. Press the right arrow button to highlight and press OK to select.



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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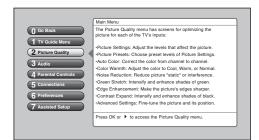
TV Guide Menu

The *TV Guide Menu* contains options that let you access and adjust features of the TV Guide On Screen guide:

TV Guide On Screen Accesses the TV Guide On Screen system. Go to page 44 for more information.

TV Guide Setup Allows you to view the options you set in the TV Guide Setup. Go to page 21 for more information.

TV Guide Setup Allows you to turn on or off the channel label or logo that appears, if available, when you change channels.



Picture Quality Menu

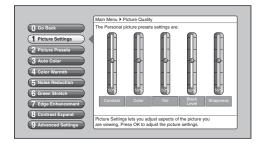
The *Picture Quality* menu contains menus to configure video settings: *Picture Settings, Picture Presets, Auto Color, Color Warmth, Noise Reduction, Green Stretch, Edge Enhancement, Contrast Expand,* and *Advanced Settings*. Each one is described below.

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. The setting is changed and saved to the Input you're currently tuned.

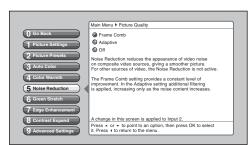


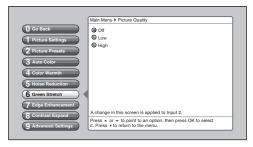
Tip

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.



Main Menu P Picture Quality © Cool Picture Settings Q Picture Presets 3 Auto Coor 4 Color Warmth 5 Noise Reduction 6 Green Stretch 7 Edge Enhancement 8 Contrast Expand 9 Advanced Settings A change in this screen is applied to Input 2. Press + or * to point to an option, then press OK to select it. Press * to return to the menu.





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.

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.

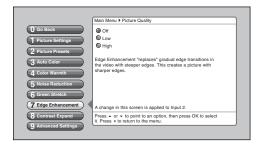
Noise Reduction

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

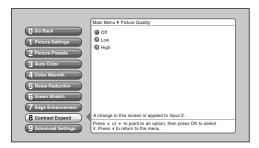
Green Stretch makes green "greener" and increases the saturation. For example, nature shows and sporting events are especially enhanced by this feature. The options are *Off, Low*, and *High*.

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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*.



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*.



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.

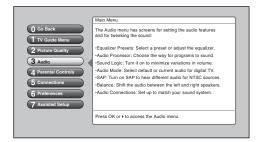
Horizontal Position Allows you to adjust the picture left and right. Press the right arrow button to move the slider right and move the picture to the right. Press the left arrow button to move the slider left and move the picture to the left.

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 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.

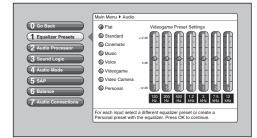
Reset Controls Menu button resets all Picture Quality controls to their original factory settings (except *Personal Picture Preset*, *Horizontal* and *Vertical Position*, and *Smoothing Adjust*) for the currently tuned input (see on-screen text). To reset the settings, you must:

- 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

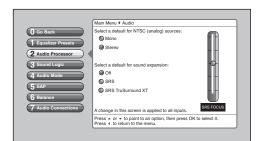
The *Audio* menu lets you adjust audio output. To access the *Audio* menu, press MENU on the remote, and then select *Audio* from the main menu. The following audio items can be adjusted: *Equalizer Presets*, *Audio Processor*, *Sound Logic*, *Audio Mode*, *SAP*, *Balance*, and *Audio Connections*.



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 *Fixed/Variable Audio Output* is set to *Variable Output*, *Speakers On* in the *Audio Connections* menu. If the *Fixed/Variable Audio Output* is set to *Fixed Output*, you cannot make changes to the equalizer and the bands are set to 0dB. However, the graphic equalizer levels for *Variable Output*, *Speakers On* are stored in memory in case you switch from *Fixed Output* back to *Variable Output*, *Speakers On*.

Note: 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* in the *Audio Connections* menu:

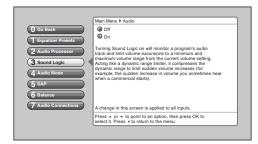
Off No SRS processing is applied to the audio.

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.

Creates a virtual surround sound from multichannel source material through any two-speaker playback system. Use the SRS Dialog Clarity adjustment on the right to adjust the clarity

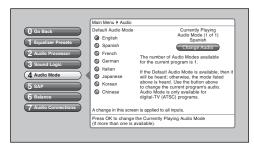
TruSurround XT, SRS and ([]) symbol are trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under license from SRS Labs, Inc.

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Sound Logic

Acting like a dynamic range limiter; it compresses the dynamic range to limit sudden 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.

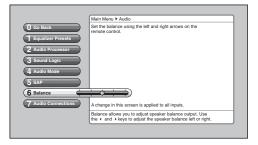


SAP (Second Audio Program)

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.

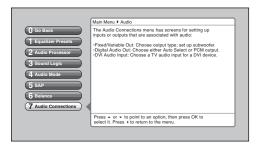
You can activate SAP (if available) temporarily with the SOUND button. Changing channels or inputs reverts SAP back to the SAP menu setting.

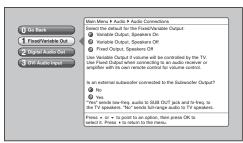


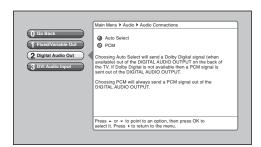
Balance

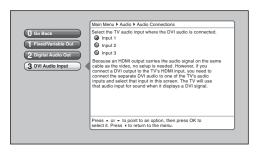
The *Balance* setting applies to the internal speakers and the headphone output. Balance is how much audio (loudness) gets sent to the left and right speakers.

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









Audio Connections

The *Audio Connections* option lets you set up input or outputs associated with audio. When you select *Audio Connections*, a submenu appears with options: *Fixed/Variable Out, Digital Audio Out,* and *DVI Audio Input.*

Fixed/Variable Out Displays a choice list that lets you turn the TV's front internal speakers on or off and set the Fixed/Variable audio output to a fixed or variable volume output level. The choices are:

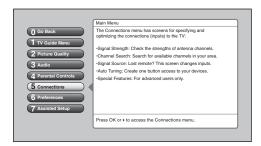
- *Variable Output, Speakers On* Turns the TV's front speakers *On* and allows variable output from the TV's FIXED/VARIABLE AUDIO OUTPUT jacks. Use this setting if the TV is not connected to an audio receiver or amplifier and the volume is controlled by the TV.
- *Variable Output, Speakers Off* Turns the TV's front speakers *Off* and allows variable output from the TV's FIXED/VARIABLE AUDIO OUTPUT jacks. Use this setting if the TV is connected to an audio receiver or amplifier and the volume is controlled by the TV.
- *Fixed Output, Speakers Off* Turns the TV's front speakers *Off* and provides fixed output from the TV's FIXED/VARIABLE AUDIO OUTPUT jack to a receiver or amplifier. With the Fixed Output, the TV's volume control, graphic equalizer, and mute are disabled. This output is ideal when connecting to an audio receiver or amplifier that has its own remote control for controlling the volume.
- Is an external subwoofer connected to the Subwoofer Output? This option only appears when Variable Output, Speakers On is selected. Select Yes if you want the low frequency audio sent from the SUBWOOFER Out jack to the connected external subwoofer and high frequency audio sent to the TV's speakers; select No to send full-range audio to the TV's speakers. For the Speakers Off option, the SUBWOOFER Out jack is always enabled.

Digital Audio Out Allows you to receive Dolby Digital surround sound if transmitted and you've connected a six-channel receiver to the TV's DIGITAL AUDIO OUTPUT jack with a digital optical cable. Choose the correct setting in the *Digital Audio Out* menu:

- **Auto Select** Your TV automatically chooses between Dolby Digital and PCM based on the audio signal it is receiving. This is the best selection if you have a decoder with Dolby Digital and PCM that was manufactured in the last several years.
- *PCM* (Pulse Code Modulation) The TV sends all signals through the Digital Audio Output in PCM.

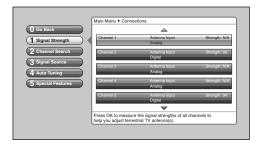
DVI Audio Input Allows you to select the audio input you're using if you've connected an HDMI/DVI cable adapter to the DVI input. Select from the inputs listed. Go to page 16 for more information.

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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, Signal Source, Video Input Setup, Auto Tuning,* and *Special Features.*



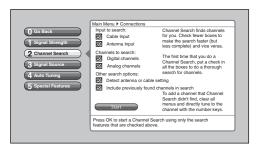
Signal Strength

This screen lists any antenna 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. Cable channels and digital subchannels, e.g. 8-1, 8-2, do not appear.

Note: If you have an antenna connected to the Antenna and Cable Inputs, press the ANT•CAB button to view your channels on the Antenna Input, or vice-versa.



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 full 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 check mark in the box. Select *Start* to begin the setup.

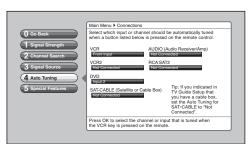
Notes: Channel Search with all options selected takes some time to complete because all possible analog and digital channels are being searched.

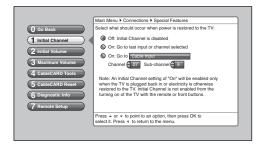
If a cable box is connected to your TV's CABLE INPUT or the CableCARD slot is in use, don't check the Cable Input box.

Tip

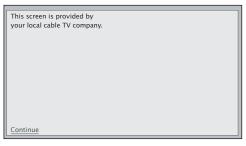
You can still add a channel that was not found by Channel Search. Clear any on-screen menus, and tune to it by using the number buttons on the remote. If the channel can be tuned, it will be added to the channel list for that tuner.











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.

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•HD, DVD, SAT•CABLE, 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•HD button by default is set up for an RCA HDTV Tuner receiver.

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

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 digital cable card is inserted into the back of the TV and you have subscribed to digital cable service. Go to page 10 for more information on using your digital cable card.

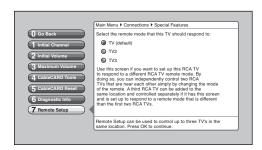
The *CableCARD Tools* information might vary according to the brand of card you have inserted into your TV. The graphic to the left is an example of what you might see. Select an option to view more information.

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.

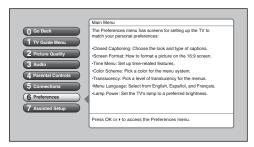
CableCARD Reset If you experience problems with your digital cable, try resetting your digital cable card. Press the right arrow to select *Reset* and then press the OK button on the remote. If problems persist, contact your cable company.

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Diagnostic Info This screen allows cable and TV installers to view details helpful to them during installation and troubleshooting.

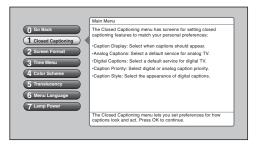


Remote Setup This features allows you to control three different RCA TVs. This is helpful if you have two or three RCA TVs near each other, and they also have this menu option, but you want to control them independent of each other. Program a second RCA TV to the DVD, VCR, AUX•HD, SAT•CABLE, or AUDIO 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.



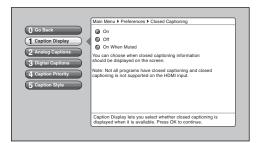
Preferences Menu

The *Preferences* menu allows you to change some aspects of your TV to fit your personal preferences. Features in the *Preferences* menu are: *Closed Captioning, Screen Format, Time Menu, Color Scheme, Translucency, Menu Language,* and *Lamp Power.*



Closed Captioning

You may set the type of captioning displayed. Choices within the *Closed Captioning* menu are: *Caption Display, Analog Captions, Digital Captions, Caption Priority,* and *Caption Style*.



Caption Display

The *Caption Display* menu displays a choice list that lets you choose when closed captioning information is shown on the screen. HDMI/DVI input is not supported by Closed Captioning (CC); try the component's menu system for CC options.

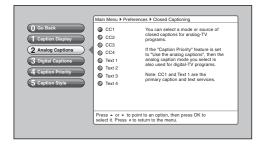
On Captioning information is always shown when it's available on a channel or input.

Off No captioning information is displayed.

On When Muted Captioning information is only shown when available and the TV's sound is muted. (To mute the sound, press the MUTE button on the remote control and captioning information will appear on the screen, if available.)

Notes: Use the CC button on the remote to toggle CC on and off. Go to the remote section for more information. Changing channels or inputs restores CC to the default setting.

If you turned off the speakers in the Audio menu (Fixed Output, Speakers Off), Closed Captioning won't appear when you press the MUTE button on the remote even when you choose On when Muted.



Analog Captions

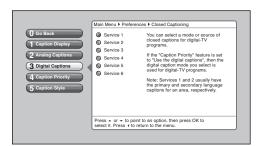
You can select a closed caption mode, which is the mode, or source, used for displaying captioning information for analog channels or digital channels, if available. The content of CC and Text are different; you can select which one you want to see on the screen.

CC Displays information at any position on the screen. It overlays the text on top of the picture as it is received.

Text Displays information at one particular position (such as the bottom third) of the screen. You cannot see the picture underneath the text.

You can choose between eight closed caption modes:

- *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.

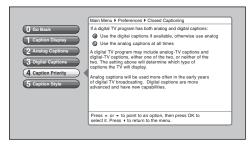


Digital Captions

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*.

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Caption Style

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

Note: Custom settings only apply to digital captions and when caption content allows it.

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

Caption Font 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.

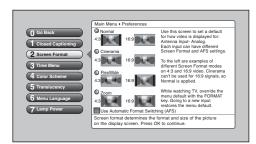
Note: A preview graphic of the caption font appears on the right of the screen.

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 is displayed on screen. The options are *Normal, Cinerama, FlexWide*, or *Zoom*. If you want to adjust your image, choose an option below:

Normal The image of a 4:3 video signal is centered with bars on the right and left sides of the screen. The 16:9 image is kept to its 16:9 format.

Cinerama The image of a 4:3 video signal is centered, expanding in the horizontal direction to fill the display with little distortion. Cinerama isn't available for 16:9, so the Normal format is displayed.

FlexWide The image of a 4:3 video signal is stretched horizontally by approximately 33% while the vertical size stays the same. The 16:9 image is compressed in width.

Note: Some 4:3 images are sent by digital-TV broadcasters as a 16:9 video signal with black bars on the left and right sides of the image. Therefore, Cinerama won't work and FlexWide won't stretch this non-standard image, but instead will squeeze it. Use the INFO button to confirm if the video signal is 4:3 or 16:9.

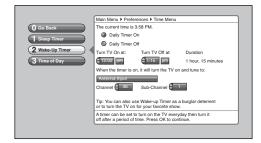
Zoom The image of a 4:3 video signal increases by approximately 33% and the vertical size increases by approximately 33%. Edges of the image might be cropped. The 16:9 image is zoomed in on, possibly cropping the edges of the image.

Note: When recording from the AUDIO/VIDEO OUTPUT jacks, use Normal or FlexWide 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

Notes: The format of some video cannot be changed.

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.

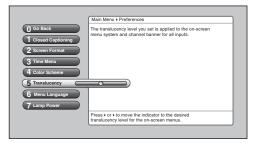
Note: If you enter the time manually, you must remember to set your TV's time when the time changes to Daylight Saving Time. Sleep Timer and Wake-Up Timer will not function as you expect if you forget to change the TV's time.



Color Scheme

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

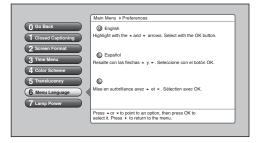
Note: The TV Guide On Screen system colors are unaffected.



Translucency

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

Note: This does not apply to TV Guide On Screen system.

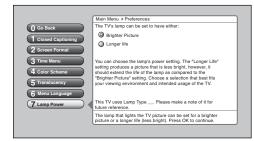


Menu Language

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.

Note: Spanish and French are not available in TV Guide On Screen system.

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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*).

Chapter 5: Other Information

Chapter Overview:

- **♦** Frequently Asked Questions
- **♦** Troubleshooting
- **♦** Lamp Replacement Information
- **♦** HDTV Specifications
- **♦** Accessory Information
- **♦ Limited Warranty**
- **♦** Care and Cleaning
- **♦** FCC Information
- ♦ Index

Frequently Asked Questions (FAQs)

What's the quickest way to view High Definition (HD) video?

Connect an off-air antenna to the ANTENNA INPUT to view local digital channels. You might need to purchase an antenna. Go to page 9 for more information.

How do I tell an analog channel from a digital channel?

There are three different ways to tell if your channel is digital or not. Press the INFO button to display the channel banner. Look at the left corner for a channel number. Channels with a primary channel and a subchannel is a digital channel, but not all digital channels have subchannels. Look at the right corner for the format (4:3 for analog and sometimes digital; 16:9 for digital) and resolution the TV is receiving. Go to page 26 for more information.

Why does channel search find a lot of channels, but when I try to tune to them there's nothing there?

Some channels are enabled by the cable company that don't carry programming, such as video-on-demand. When channels are unavailable, your TV's screen displays *Unusable Signal*. You probably want to get rid of these so they no longer appear in your channel list. Remove these in the *Channel List* menu. Go to page 53 for more information.

Why does the first channel search take a long time?

If you've checked each box in the channel search menu, the TV is looking for all available channels in the channel list. If you do have digital channels, the TV is also searching for each subchannel of that digital channel.

How do I control other devices I've connected to the TV?

Because your TV came with a universal remote, you can program your remote to the button corresponding with the device you have connected to your TV. Go to page 36 for information on programming your remote.

Why do I have sound, but no picture when I turn on my TV?

There is a lamp inside the TV which needs approximately one minute to reach full brightness. You'll hear audio during this time and the picture increasingly gets brighter as the lamp warms up.

Why are there black bars on my screen and can I get rid of them?

Analog channels are sent in a 4:3 format, which cannot fill a 16:9 screen like your TV. Most digital channels are sent in a 16:9 format which do fill your screen, but sometimes are sent in 4:3. It depends on how the station is formatting the video. Press the FORMAT button to see the different formats available that may eliminate the black bars. Note that some 4:3 images are sent by digital-TV broadcasters as a 16:9 video signal with black bars on the left and right sides of the image. Therefore, some of the formats won't work properly. Go to page 74 for more information on screen format.

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 <u>www.rcascenium.com/customersupport</u>.

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.
- You might have tried to turn on the TV during the lamp cool-down. 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 may be dead. Refer to the *Power indicator is blinking or flashing* section below for more 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. This happens only when power is reapplied to the TV. The TV can only be turned on after the Power indicator goes off.
- 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 82.
- 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 may be open. Face the back of the TV. Locate the door at the bottom of the TV and close it. Turn off the TV and turn back on. The lamp should turn on.
- Lamp may be dead. Go to page 83 for lamp replacement 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 75 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 or Reminder from the TV Guide On Screen system may have been activated. Go to page 75, 47, or 51 for instructions.
- Initial Channel feature is enabled and you lost power to your TV. Go to page 71 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. Refer to the *Power indicator is blinking or flashing* section on the previous page for more 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.

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).
- You might need to reset your digital cable card if you have one installed. Go to page 71 for more instructions.

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 64 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 72 for more
instructions.

TV Guide On Screen System Problems

Every time I turn on the TV, the TV Guide On Screen system is on the screen

• The TV Guide On Screen system automatically appears on the screen when you use the TV button on the remote to turn on the TV. You can turn off this feature. Go to page 49 for instructions.

TV Guide On Screen setup won't turn off tape for VCR setup and/or channel 02 cable box

- Check to see if the G-LINK wands are positioned correctly in front of components' remote sensors.
- TV Guide On Screen system control of cable box is slower than direct control of the box itself. Keep this in mind when changing channels.
- You may have an incorrect TV Guide On Screen Channel Lineup. The Guide may get out of sync with the cable provider. Use the *TV Guide On Screen Setup* in the *TV Guide Menu* to change the zip code to 99999. Turn the TV off for 10 minutes. Use Setup again to change the zip code back to the correct entry. If asked, be sure to select the correct channel lineup from the on-screen list. If you aren't sure of your specific channel lineup, you may need to repeat this procedure to select each available channel lineup until you receive the correct program listings.

Program information doesn't download

- Review your setup information and make sure it's correct. Press MENU on the remote and select *TV Guide System* menu and then *Setup*. Go to page 21 for detailed instructions about the TV Guide Setup menus.
- The TV must be off to download TV Guide On Screen program listings. Leave your TV when it's not in use. It may take up to 24 hours, to start to receive the initial download for your area. It may take up to one week to receive all eight days of TV program listings.
- If you're using a cable box, leave it on so you can receive program information.
- The TV Guide On Screen interactive program guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air broadcast. It does not provide listings for satellite services.

Scheduled Reminder or Recording doesn't occur

- Check Listings or Schedule for timer conflicts. Go to page 46 or 50 for instructions.
- Make sure the wands of the G-LINK cable are placed in front of the remote sensor(s) on the component(s).
- Make sure your VCR is turned off during the time you've scheduled to record a program because the system turns the VCR on when
 it starts recording (if it's already on when recording starts, the system will turn it off).
- Make sure there is a tape in the VCR and that the VCR is connected properly and tuned to the line input. Don't change channels.
- Be sure that you set up the VCR in the *TV Guide Setup* menus. If you don't complete the *Configuring for a VCR* steps successfully, recordings won't work. Go to page 24 for detailed instructions.
- If a cable box is attached to your TV, make sure you set it up correctly in the TV Guide Setup menus. Go to page 22 for detailed instructions.

Doesn't tune to correct antenna input

• Because of occasional irregular data, the Guide may inadvertently tune to the incorrect antenna input in the video window or when using CLEAR to exit the Guide.

Problems with HDMI/DVI Connection

- The HDMI/DVI jack is not intended to be used with a computer. Disconnect the computer if it's connected to the jack.
- Make sure the HDMI or DVI device is turned on and the cables are firmly connected. If problems still occur, turn off your device. Reconnect your device. Reset the power by unplugging the power cord and plugging it back in.
- If you are tuned to the HDMI/DVI input and you're receiving *Unusable Signal* message on-screen, press the INFO button on the remote. If *Acquiring Channel* appears in the channel banner, the HDMI or DVI device isn't responding. Contact the manufacturer of the HDMI or DVI device for further assistance.
- If you tune to the HDMI/DVI input and you see snow, the video goes in and out, or the video takes a long time to appear, your HDMI or DVI device is having trouble sending video information to the TV. Re-connect your device. Reset the power by unplugging the power cord and plugging it back in. Contact the manufacturer of the HDMI or DVI device for further assistance.
- 480i signals aren't supported by the HDMI/DVI input.

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.)
- 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 36 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 3 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 Information

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 may be 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 or lamp access door is ajar. If you have recently accessed the lamp, make sure the lamp access door is completely closed and the lamp unit is seated correctly.

What to do

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 injury.

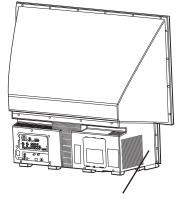
- You can easily replace the lamp yourself by following the lamp replacement instructions packed separately with your TV. Lamp replacement instructions also come packed with new lamp replacements. If your TV is still covered by the warranty, call 1-866-723-6486 to receive troubleshooting assistance and a lamp replacement.
- If your TV's warranty has expired, call 1-800-338-0376 to purchase a lamp replacement. If you are not comfortable replacing the lamp yourself, call 1-866-723-6486 and we will refer you to a service person who will replace the lamp for you. There will be a service fee.



EXAMPLE: Service Model Number sticker with lamp type listed.

What you'll need to get started: To order the correct lamp, you

- 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 above). Face the back of the TV. The sticker is located on the right side of the TV.
- Follow the lamp replacement instructions packed separately with your TV. Lamp replacement instructions also come packed with new lamp replacements.



Service Model Number Sticker location with Lamp Type

HDTV Specifications**

| Digital Cable Compatibility | Tuning Capability | Channel Tuning | |
|--|--------------------------|--|-----------------------------|
| Format Control (Screen) Format Control (Screen) FlexWide, Auto Format Switch Adaptive Video Noise Reduction. Yes Adjustable Color Warmth Yes Adjustable Picture Control Yes Auto Color Control. Yes Auto Flesh Yes Comb Filter Digital Frame Comb (3D Y/C) Contrast Expand Off, Low, High Optimum Contrast, High-Resolution Screen Yes Edge Enhancement Off, Low, High Green Stretch Hybrid Lens System Yes Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DIP Light Engine Scan Rate Converter Yes Vertical Viewing Angle (Alpha V) Horizontal Resolution Picture Width) 1280 Horizontal Viewing Angle (Alpha H) Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 7 plus Personal Full Range Front Speakers 7 plus Personal Full Range Front Speakers 7 plus Personal | | | |
| FlexWide, Auto Format Switch Adaptive Video Noise Reduction. Yes Adjustable Color Warmth. Yes Adjustable Picture Control. Yes Auto Color Control. Yes Auto Flesh. Yes Comb Filter. Digital Frame Comb (3D Y/C) Contrast Expand. Off, Low, High Optimum Contrast, High-Resolution Screen. Edge Enhancement. Off, Low, High Green Stretch. Off, Low, High' Hybrid Lens System. Yes Picture Presets. Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type. DLP Light Engine Picture Screen Pitch. Scan Rate Converter. Yes Vertical Viewing Angle (Alpha V). Horizontal Viewing Angle (Alpha H). Wide Band Video Amplifier. Sound Audio Power (Watts) Front Speakers. 10 Watts/Channel Balance Control. Yes Sound Presets. 7 plus Personal Full Range Front Speakers. 7 plus Personal | Video | 3:2 Pull Down (Film Mode) | Reverse Diagonal |
| Adaptive Video Noise Reduction | | | |
| Adjustable Picture Control Yes Auto Color Control Yes Auto Flesh Yes Comb Filter Digital Frame Comb (3D Y/C) Contrast Expand Off, Low, High Optimum Contrast, High-Resolution Screen Yes Edge Enhancement Off, Low, High Green Stretch Off, Low, High* Hybrid Lens System Yes Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DLP Light Engine Picture Screen Pitch Screen 155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V) 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Presets 7 plus Personal Full Range Front Speakers 7 plus Personal Full Range Front Speakers 2 | | | |
| Adjustable Picture Control Yes Auto Color Control Yes Auto Flesh Yes Comb Filter Digital Frame Comb (3D Y/C) Contrast Expand Off, Low, High Optimum Contrast, High-Resolution Screen Yes Edge Enhancement Off, Low, High Green Stretch Off, Low, High* Hybrid Lens System Yes Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DLP Light Engine Picture Screen Pitch Screen 155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V) 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Presets 7 plus Personal Full Range Front Speakers 7 plus Personal Full Range Front Speakers 2 | | Adjustable Color Warmth | Yes |
| Auto Flesh | | , | |
| Comb Filter | | Auto Color Control | Yes |
| Contrast Expand Off, Low, High Optimum Contrast, High-Resolution Screen Yes Edge Enhancement Off, Low, High Green Stretch Off, Low, High' Hybrid Lens System. Yes Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DLP Light Engine Picture Screen Pitch Screen .155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V). 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H). 80 Wide Band Video Amplifier Yes Sound Presets .10 Watts/Channel Balance Control .Yes Sound Presets .7 plus Personal Full Range Front Speakers .2 | | Auto Flesh | Yes |
| Optimum Contrast, High-Resolution Screen Yes Edge Enhancement Off, Low, High Green Stretch Off, Low, High Hybrid Lens System Yes Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DLP Light Engine Picture Screen Pitch Screen .155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V). 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Comb Filter | Digital Frame Comb (3D Y/C) |
| Edge Enhancement Off, Low, High Green Stretch Off, Low, High* Hybrid Lens System. Yes Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DLP Light Engine Picture Screen Pitch Screen .155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V). 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H). 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Contrast Expand | Off, Low, High |
| Green Stretch | | Optimum Contrast, High-Resolution Screen | Yes |
| Hybrid Lens System | | Edge Enhancement | Off, Low, High |
| Picture Presets Vibrant (Day), Natural, Cinematic (Night), Videogame, Professional, Personal Light Engine Type DLP Light Engine Picture Screen Pitch Screen .155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V) 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Green Stretch | Off, Low, High° |
| Cinematic (Night), Videogame, Professional, Personal Light Engine Type | | Hybrid Lens System | Yes |
| Light Engine Type DLP Light Engine Picture Screen Pitch Screen .155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V). 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Picture Presets | Vibrant (Day), Natural, |
| Picture Screen Pitch Screen .155mm Scan Rate Converter Yes Vertical Viewing Angle (Alpha V) 20° Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | | |
| Scan Rate Converter | | Light Engine Type | DLP Light Engine |
| Vertical Viewing Angle (Alpha V) | | Picture Screen Pitch | Screen .155mm |
| Horizontal Resolution (Picture Width) 1280 Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Scan Rate Converter | Yes |
| Horizontal Viewing Angle (Alpha H) 80 Wide Band Video Amplifier Yes Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Vertical Viewing Angle (Alpha V) | 20° |
| Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Horizontal Resolution (Picture Width) | 1280 |
| Sound Audio Power (Watts) Front Speakers 10 Watts/Channel Balance Control Yes Sound Presets 7 plus Personal Full Range Front Speakers 2 | | Horizontal Viewing Angle (Alpha H) | 80 |
| Balance Control | | Wide Band Video Amplifier | Yes |
| Balance Control | Sound | Audio Power (Watts) Front Speakers | 10 Watts/Channel |
| Sound Presets | Source | | |
| Full Range Front Speakers | | | |
| | | | 1 |
| orapine Equalification and the second of the | | | |
| Second Audio Program (SAP)Yes | | | |
| Sound Logic Audio Leveler | | _ | |
| SRS | | | |
| SRS TruSurround XT | | | |

^{**}Specifications are subject to change.

| Convenience | Auto Channel Search | Yes |
|---------------------------|--|--------------------------|
| | Multilingual On-screen Display | English, French, Spanish |
| | Auto Tuning | Yes |
| | Closed Captioning | Analog & Digital |
| | Front Button Block | Yes |
| | Commercial Skip | Yes |
| | Parental Control with USA & Canada V-Chip | Yes |
| | TV Guide On Screen System (includes Digital Channels) | Yes |
| | One Touch VCR Record w/ TV Guide On Screen System | ı.Yes |
| | Picture Reset | Yes, in Menu |
| | Picture Memory Presets for Video Inputs(Individual Memory) | Yes |
| | Clock (Time), Sleep and Wake-Up Timers | Yes |
| | | |
| Front Panel | Stereo Headphone Jack | 3.5mm Stereo Mini-jack |
| | Front A/V Input | Composite |
| Back Panel Inputs/Outputs | Composite A/V Inputs | 1 |
| | Component video Syncroscan with Autodetect | |
| | Composite/S-Video and L/R Audio | 2 sets |
| | Antenna/Cable Inputs | 2 - RF |
| | HDMI/DVI Input (with Audio Input menu selection) | 1 |
| | G-LINK Jack | Yes |
| | Audio/Video (Record) Output | 1 |
| | Digital Audio Output | 1 |
| | Fixed or Variable Audio Outputs | 1 set, menu switchable |
| | CableCARD slot | 1 |
| | Capiccand siot | 1 |

Accessory Information

Below are accessories available to complement your product. Prices are subject to change without notice. All accessories are subject to availability.

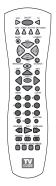
A shipping and handling fee will be charged upon ordering, and we are required by law to collect the appropriate sales tax for each individual state, county and locality to which the merchandise is being sent.

How to Order

To place your order by phone, have your Visa, MasterCard or Discover Card ready and call the toll-free number listed below. Use this number only to place an order for accessory items listed on this page. 1-800-338-0376

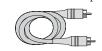
Replacement Lamp

Your DLP is equipped with a special lamp unit. If you have sound, but no picture, and the light on the front of the TV blinks, you may need to change the lamp. Go to page 85 for more information about the lamp replacement. To order a new lamp, call 1-800-338-0376



Remote Control This is the remote control that came packed with your TV. Replacements or spares can be ordered as

270226 (price not available at time of print)



Subwoofer cable helps you connect to a device with an Subwoofer In jack, such as a audio receiver.

PD15SW (15ft) \$39.95



Optical/SPDIF Cable helps you connect to a device with an Optical Audio In jack, such as a Dolby Digital decoder or receiver.

DV3 (3-ft) \$15.95 DV6 (6-ft) \$19.95



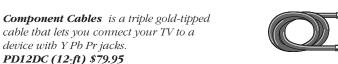
RG-6 Coaxial Burial Cable with weatherproof "F" connectors.





Push-on Cable* attaches to the round antenna connectors (called 75-ohm Ftype) on the back of your VCR or TV. The ends push on for a quick connection.

VH89 (6-ft) \$5.95





Screw-on Cable* attaches to the round antenna connectors (called 75-obm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.

VH81 (3-ft) \$3.95 VH82 (6-ft) \$4.95



Signal Splitter* helps you split the signal to more than one device.

2-way VH47 \$3.95 4-way VH49 \$6.95



Amplified VHF/UHF/FM

Antenna allows you to easily switch from the antenna signal to cable or satellite easily without disconnecting antenna.

ANT200X \$49.95



S-Video Cable has multi-pin connectors on each end for connecting S-Video devices to your TV.

Stereo Audio/Video Cable is a triple gold-

tipped cable that lets you connect the video

and audio jacks of stereo devices.

VH976 (6-ft) \$7.95 VH913 (12-ft) \$14.95

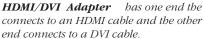
PD6DC (6-ft) \$69.95

VH84 (6-ft) \$9.95



HDMI Cable has HDMI connectors on each end for connecting HDMI devices to your TV.

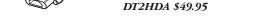
PD12HDMI (12ft) \$84.95





Optional Stand Available to place your TV on and store devices you've connected to your TV. Visit reascenuim.com to find out more information on the stand available for your TV.

* This accessory is intended for use with an off-air or cable TV signal distribution and is not suitable for distribution of the satellite signal originating from your satellite dish antenna.



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 unit. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

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., ITS 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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Visit the RCA Scenium website at www.rcascenium.com

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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