USETS QUIDE REAL LCD FLAT PANEL HDTV

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Important Information



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

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



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



This symbol indicates important instructions accompanying the product.

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. No objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING

The TV is unstable if it is not properly attached to the base or mounted to the wall. Please follow the base or wall mounting instructions provided in the User's Guide to ensure your safety.



This symbol indicates that this product contains mercury. Special disposal of this product 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 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 on the next page.

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For US customers: Your RCA Consumer Electronics product may also be registered at www.rca.com/television. Registering this product allows us to contact you if needed.

Product Information

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	Serial No	Purchase Date	
Dealer/Address/Phone			

Important Safety Instructions

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where it exits from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Service is required when the apparatus is damaged in any way, such as power-supply cord or plug damage, liquid spilled on or objects falling onto apparatus, rain or moisture exposure, abnormal operation, or if the apparatus has been dropped.
- 15. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See following example.

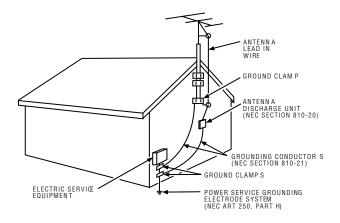


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1 Connections and Setup

Things to Consider Before You Connect

Protect Against Power Surges

- Connect all devices before you plug any 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.

Instructions at the beginning of the User's Guide

- 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.
- If you place devices above the TV, route all cables down one side of the back of the TV instead of straight down the middle.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Use Indirect Light

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

Check Supplied Parts

Check that the following parts were packed with your product.





Go to Page 8 to see the parts list for the table

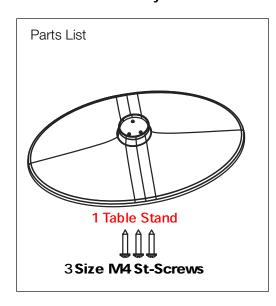
Graphics contained within this publication are presentation only.

Note: If you need to replace your remote, call 1-800-338-0376. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.

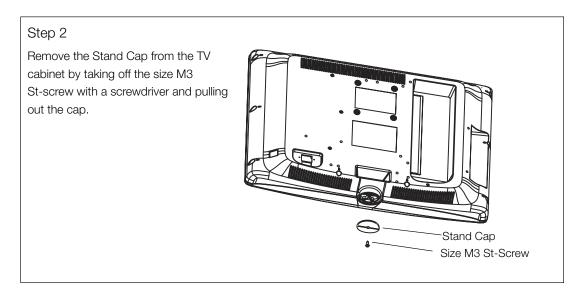
Attaching TV to Table Stand

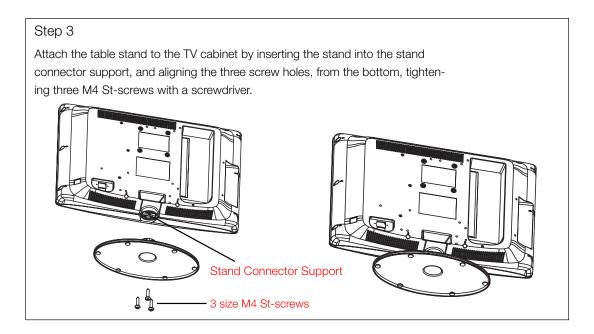
Your TV comes without the table stand attached so that you can choose to mount your TV either to its table stand or to a wall (wall mount sold separately). If you want to mount your TV to the wall, don't attach the table stand, and instead, follow the Mounting Your TV to the Wall instructions on page 9.

Table Stand Assembly for models L 22HD 31









Mounting TV to Wall

To mount your TV to the wall you need to purchase a VESA wall mount

Model L22HD31

Purchase a VESA 100 x100, Size M4 screw

Caution: Your wall mount mustbear a minimum of five times the TV's net weight without causing dam age.

The VESA number is the horizontal and vertical measurement of the mounting holes. For example, 100x100 means the mounting measurements are 100mm horizontally and 100mm vertically. Follow the directions included with the wall mount to mount the TV to the wall.

Get the Picture

The first part of connecting your TV is to get the picture, also known as the signal. The back panel of your TV allows you to receive analog and/or digital channels by using the ANTENNA/ CABLE INPUT.

Getting Channels

What You Need

Antenna ("rabbit ears") or outdoor antenna with coaxial cable

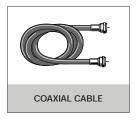
OR

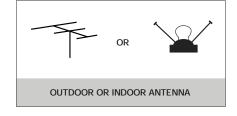
Coaxial cable with cable service

- A. Do you have an indoor or outdoor antenna? If not, go to step B. If so, plug the antenna or coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT to receive free off-air local digital and analog channels.
- B. Do you have cable? If so, plug the coaxial cable from the wall outlet into the ANTENNA/ CABLE INPUT to receive your cable channels.
- C. Do you have a set-top box? If so, you may need to call your cable company or satellite service provider. They may recommend special cables to allow you to view digital channels.

What You Need To Know

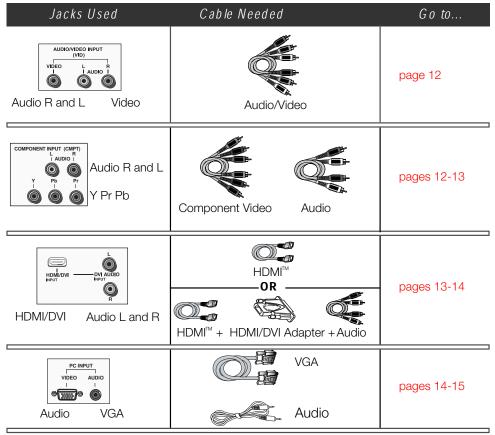
- Visit www.antennaweb.org for help deciding what type of antenna to use to receive the local digital channels available to you. By entering where you live, this mapping program tells you what local analog and digital stations are available using a certain antenna.
- When you are ready to watch channels, the channel banner displays the type of channel you're viewing. Look for a *D* at the bottom of the screen for digital channels; look for an *A* for analog channels. Go to page 30 for more information.





Choose Your Connections

There are several ways to connect devices such as DVD players and set-up boxes to your TV. Please use the following chart to determine which connection is best for you. Proceed to the appropriate page to connect your TV.



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

Input	Signal Compatability
Ant/Cable	480i, 480p, 720p, 1080i (NTSC, ATSC, and QAM formats)
Composite Video	480i
S-Video	480i
Component Video	480i, 480p, 720p/60Hz, 1080i/60Hz
PC	VGA, SVGA, XGA
HDMI	480i, 480p, 720p/60Hz, 1080i/60Hz, 1080p

Note for US 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 entertainmentsystem and instruct you in its operation. For details about this service, call 1-888-206-3359 For additional assistance while using your RCA product, please visit www.rca.com/ customersupport

Connecting a Device with Composite Video (Good)

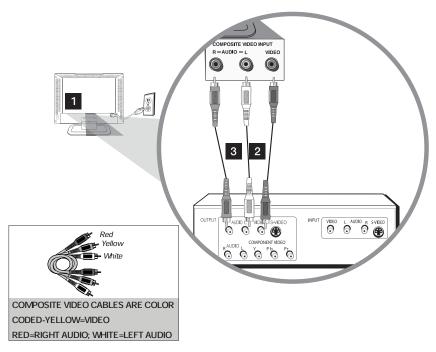
This connection allows you to connect a device that has a Video Out jack, for example, a DVD player.

Using the example of a DVD player:

- 1. If necessary, connect your cable and/or off-air antenna as described on page 10.
- 2. Connect your yellow video cable. Connect a video cable to the (VID) VIDEO jack on the back of the TV and to the VIDEO OUTPUT jack on the DVD player.
- 3. Connect your red and white AUDIO cables. Connect the AUDIO (red and white) cables to the (VID) right and left AUDIO jacks on the back of the TV and to the AUDIO OUTPUT jacks on the DVD player.

Composite Video Connection

This is an example of a connection using the composite video jack.



Don't forget:

If necessary, connect antenna or cable to get a picture. Go to page 10 for instructions.

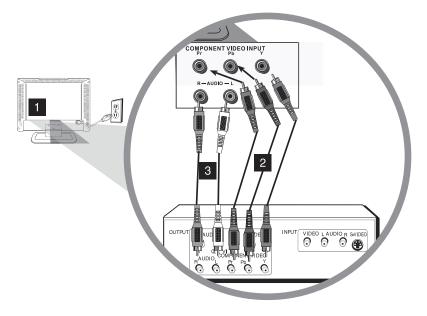
Connecting a Device with Component Video (Better)

This connection allows you to connect a device that has Y Pb Pr jacks, for example, a DVD player. Using the example of a DVD player:

- 1. If necessary, connect your cable and/or off-air antenna as described on page 10.
- 2. Connect your Y Pb Pr component VIDEO cables. Connect three VIDEO cables or special Y Pb Pr cables to the COMPONENT INPUT (CMPT) Y Pb Pr jacks on the back of the TV and to the Y Pb Pr outputs on the DVD player.
- Connect your red and white AUDIO cables. Connect the AUDIO (red and white) cables to the Component Input (CMPT) right and left AUDIO jacks on the back of the TV and to the AUDIO OUTPUT jacks on the DVD player.

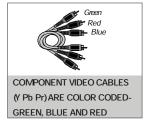
Component Video Connection

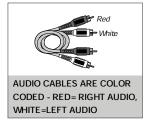
This is an example of a connection using the component video jacks. Go to page 12 for specific instructions.



Don't forget:

If necessary, connect antenna or cable to get a picture. Go to page 10 for instructions.





Connecting a Device with HDMI (Best)

High-Definition Multimedia Interface (HDMI) technology is an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable. Since HDMI technology is based on Digital Visual Interface (DVI), the jack on the back of your TV is also compatible with devices that have a DVI output jack.

Using the example of a set-top box:

If your set-top box has an HDMI jack, connect 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.

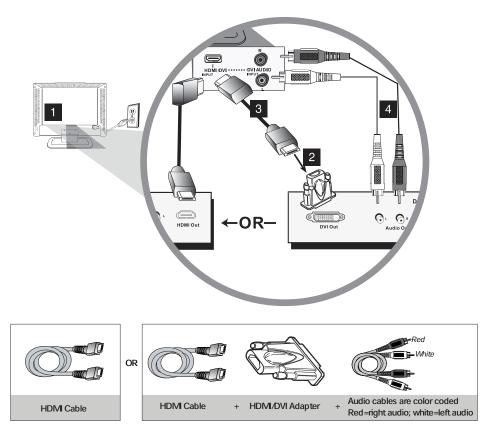
-OR-

If your set-top box has a DVI jack, connect an HDMI cable and an HDMI/DVI adapter:

- 1. Connect an HDMI cable to the HDMI/DVI INPUT jack on the back of the TV.
- 2. Attach an HDMI/DVI adapter to the end of the HDMI cable, then connect the adapter to the DVI Out jack on the set-top box.
- 3. Since you're using an HDMI/DVI adapter, you need to connect separate AUDIO cables to the DVI AUDIO right and left jacks on the back of the TV and to the R and L AUDIO jacks on the back of the device.

HDMI/DVI Connection (Best)

This is an example of a connection using the HDMI2/DVI jack. Go to page 13 for specific instructions.



Don't forget:

If necessary, connect antenna or cable to get a picture. Go to page 10 for instructions.

Connecting a PC Device

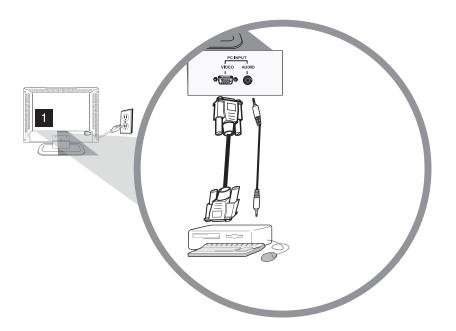
This connection allows you to connect to a personal computer and use your TV as a monitor.

- 1. If necessary, connect your cable and/or off-air antenna as described on page 10.
- Connect your monitor cable. Connect one end of a 15-pin monitor cable to the PC VIDEO jack on the TV and the other end to the PC's VIDEO OUTPUT jack. Note, if your PC's VIDEO OUTPUT isn't 15-pin, you'll need an adapter that can connect to a 15-pin monitor cable
- 3. Connect your AUDIO cable. Connect a 3.5mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to the PC AUDIO jack on the back of the TV and the other end to the AUDIO OUTPUT jack on the PC.

Note: The maximum resolution is 1024 x 768. Be sure to set your PC to the correct monitor output setting.

PC Connection

This is an example of a connection using the PC VIDEO jack. Go page 14 for specific instructions.



Don't forget:

If necessary, connect antenna or cable to get a picture. Go to page 10 for instructions.

ViewingPicture from Connected Device

- 1. Plug in the TV (see page 16 for details) and the device, if they aren't already plugged in.
- 2. Turn on the TV and the device you want to view, for example a DVD player.
- 3. Repeatedly press the INPUT button on the remote control to select VID (if connected to the VIDEO INPUT jacks), CMPT (if connected to the CMPT jacks) or HDMI (if connected to the HDMI/DVI jack) displayed at the top of the TV's screen. To go back to viewing TV channels, use the number buttons to enter the channel you want to view.

Note: If the picture from the DVD player appears black and white and your device is connected to the VIDEO INPUT, you might be tuned to the wrong input. Make sure you press INPUT until you select VID, CMPT or HDMI displayed at the top of the TV's screen.

Note:

- If you're done connecting devices to your TV, go to page 17 to complete the Initial Setup.
- To continue connecting devices, go to the next page.

Viewing PC

- 1. Plug in the TV and the PC, if they aren't already plugged in.
- 2. Turn on the TV and the PC.
- 3. Repeatedly press the INPUT button on the remote control until you select PC displayed at the top of the TV's screen. To go back to viewing TV channels, use the number buttons to enter the channel or press CH+ or CH- buttons.

Note: If you're done connecting devices to your TV, go to page 21 to complete the Initial Setup.

Plug in TV

Plug the end of the power cord into the back of the TV. Plug the other end into an outlet. Insert the plug completely into the outlet. Do not plug into an outlet controlled by a light switch.

Put Batteries in Remote

- Remove the battery compartment cover from the back of the remote by pushing the tab and lifting off the cover.
- Insert two fresh batteries (included). Make sure the polarities (+ and -) are aligned correctly.
- · Replace the cover.

Turn on TV

Turn on your TV by pressing the Power button ($\ensuremath{\omega}$) on the side of the TV or ON $\ensuremath{\bullet}$ OFF on the remote.

How to Use Remote Control to Complete Initial Setup

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

To highlight a menu item, press the arrow buttons on the remote to highlight one of the items listed on the screen. Use the up or down arrow button to move up or down. Use the right or left arrow button to view other selections for a menu choice or to display a sub-menu.

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

Complete Initial Setup

The menu system in your TV allows the TV's features to work properly. The first time you turn on your TV, the language screen appears.

Set Menu Language

The first part of the setup allows you to select your preferred language for the menu system. If *English* is your preferred language, press OK and go to set the TV Location Mode. To choose another language, press the down arrow button until that language is highlighted, and press the OK button.

English Français Español

Set TV Location Mode

After choosing the Language, a menu screen will ask you to set the TV Location. Choosing "Home" for the TV Location assigns the optimal picture settings for most home environments. This is also the most energy efficient setting. Press OK to display the Channel Setup menu.



Complete Channel Setup

Make sure you've connected the TV to cable or an off-air signal before you start the next part of the setup.

Set the Signal Type

From the Channel menu, select *Auto Channel Search*. Press the up or down arrow button to highlight *Signal Type*, if you connect the Cable to your ANTENNA/CABLE INPUT jack, the option is chosen for you and you can press the down arrow button to continue. To choose *Antenna*, press the right arrow button and then press the down arrow button to continue.

Complete the Channel Search

With *Auto Channel Search* highlighted, press OK to begin the channel search. There are several things to be aware of when the TV searches for channels. If you chose *Cable* as your signal type, the search takes a while because it's looking for analog and digital channels, and then it's removing scrambled channels found. Here is what happens during the search:

- 1. The search first looks for analog channels and places the number of channels found next to *Analog channels found*.
- 2. The search then looks for digital channels and places the number of channels found next to Digital channels found.
- 3. When Auto Channel Search is in progress, you can press the CANCEL button to cancel the search. Any channels already found will be stored.
- 4. When the search is complete, press CANCEL to exit the menu system.

You might find there are still some channels in your list that are unavailable to view. To get rid of these channels, press MENU and choose *Channel*. Highlight and select *List and Labels*. Note that removing channels from your channel list may be time consuming, so you might want to do it later. Go to page 38 for details on editing your channel list.

Note: If you are using a satellite or cable set-top box, you do not need to complete Channel Search.







What To Expect

Watching TV

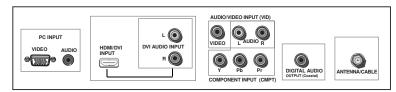
- **Remember:** Look for an A at the top of the screen to see if you're watching an analog channel.
 - Analog video is sent in a 4/3 format, or your TV can display these channels in a16/9 format by pressing the FORMAT button to view the different formats available. Go to page 35 for more explanation of screen formats.
- Remember: Look for a D at the top of the screen to see if you're watching a digital channel. Most digital video is sent in a 16/9 format which does fill your screen, but it is sometimes sent in 4/3 which does not fill your screen. It depends on how the station or source device is formatting the video. If there are bars on-screen, press the FORMAT button to try a different format. This may eliminate the bars. Some bars can't be removed because of the way the format is sent by the broadcaster. Go to page 35 for more explanation of screen formats.

Changing Channels

- Digital channels can have both primary channels (like the analog channel number) and sub-channels. To tune to a digital channel with a sub-channel, such as 10.1, enter the primary channel number (10), then press the right arrow button. Enter the sub-channel number (1) and press OK.
- 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.

Explanation of Jacks (in alphabetical order)

This section describes the jacks on the back panel of your TV. There are several ways to connect devices.



ANTENNA/CABLE INPUT Lets you connect a coaxial cable to receive the signal from your antenna, cable, or cable box.

AUDIO/VIDEO INPUT (VID) Lets you connect a device that has composite video jacks, such as a VCR or DVD player.

- L AUDIO Provides left audio connection when using the VIDEO INPUT jack. The left audio connectors are usually white. For mono audio sources be sure to use the Left AUDIO INPUT.
- R AUDIO Provides right audio connection when using the VIDEO INPUT jack. The right audio connector is usually red.

COMPONENT INPUT Lets you connect a device that has component VIDEO jacks, such as a DVD player.

- CMPT Y Pb Pr (Component Video) Provides good picture quality because the video is separated into three signals. Use three video-grade or component VIDEO cables for the connection. When using CMPT Y Pb Pr, make sure you connect left and right AUDIO cables to the CMPT L and R AUDIO jacks.
- CMPT L AUDIO Provides left audio connection when using the CMPT VIDEO inputs. The
 left audio connector is usually white. For mono audio sources be sure to use the Left AUDIO
 INPUT.
- CMPT R AUDIO Provides right AUDIO connection when using the CMPT VIDEO INPUTS.
 The right audio connector is usually red.

DIGITAL AUDIO OUTPUT (optical) Use a digital optical cable to connect your TV to a compatible audio receiver.

HDMI/DVI INPUT Lets you connect a device, such as a digital cable box, with an HDMI or a DVI output for the best picture quality.

- HDMI/DVI INPUT (High-Definition Multimedia Interface/Digital Visual Interface) Provides
 an uncompressed digital connection that carries both video and audio data by way of an
 integrated mini-plug cable. Since HDMI technology is based on Digital Visual Interface (DVI),
 the jack on the back of your TV is also compatible with DVI devices.
- DVI AUDIO L (used for DVI only) Provides left audio connection when using the HDMI jack for DVI. The left audio connector is usually white. For mono audio sources be sure to use the Left AUDIO INPUT.
- **DVI AUDIO R (used for DVI only)** Provides right audio connection when using the HDMI jack for DVI. The right audio connector is usually red.

PC VIDEO INPUT Connect your computer, or other device with a VGA OUTPUT, to this jack using a 15 pin D-sub cable. Connect your computer, or other device with a VGA output, to this jack using a 15 pin D-sub cable.

PC AUDIO (Stereo mini jack) Use to obtain sound when a PC is connected to the PC INPUT Use a 3.5mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to connect a PC to your TV.

Note: Remember to connect the left and right AUDIO cables because the DVI cable carries only the picture signal, not the sound.

Buttons and Other Jacks On Your TV

Side Input Jacks

Headphones Allow you to connect headphones to listen to the sound coming from the TV.

Side Panel Buttons

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

ப் (POWER) Turns the TV on and off.

MENU/(OK) Brings up the TV Main menu. When in the menu system, it displays sub-menus and selects highlighted items.

- **VOL** ► Increases the volume. In the TV menu system, it acts like the right arrow button on the remote control and adjusts menu controls.
- **VOL** Decreases the volume. In the TV menu system, it acts like the left arrow button on the remote control and adjusts menu controls.
- **CH**▲ Scans up through the channel list. In the TV menu system, it acts like the up arrow button on the remote control and adjusts menu controls.
- **CH▼** Scans down through the channel list. In the TV menu system, it acts like the down arrow button on the remote control and adjusts menu controls.

2U sing the Remote Control

Remote Control Buttons

options with letters, using these buttons.

To enter a channel, press the number buttons and press OK (or just let the entry timeout).

To enter a digital channel with a sub-channel, enter the main channel, then press the right arrow button to enter the sub-channel and press OK.

Arrows (◀/▶/▲/▼) Used to highlight different items in the TV menu and to adjust the menu controls. When viewing a channel, arrow functions are as follows:

- Left arrow/FORMAT Press to change the screen format: Normal, Zoom, Center, Stretch. Go to page 39 for more information on screen formats.
- Right arrow/GUIDE Press this button first to display the electronic program guide-EPG (when available), press again to view the program in the schedule.
- **UP arrow/NFO** Press the up arrow once to display the channel banner, press again to remove the menu.
- Down arrow/PRESETS Press this button to enter the PRESET menu. Display Picture and Sound preset; CC Setting; Current Audio Track.

Takes user directly into the Closed Caption submenu.

CH + or CH - Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

CH List When you tune to a particular channel, press button to enter the List and Labels menu directly to add/remove the channel from channel list.

CANCEL Removes any menu or display from the screen and returns you to normal viewing.

DVD Places the remote in DVD mode. If Autotuning is enabled, turns on the TV and tunes it to the DVD Channel. This button lights when you press a valid button in DVD mode (see Modes of Operation on page 28 for more details).

F1-F4 Favorite channel buttons. You can set one of the favorite channel buttons (F1/F2/F3/F4) to the current channel by holding the button for a couple of seconds. Each button can be set to a favorite channel at one time, but you can change the setting many times.

GO BACK Returns you to the previous channel.

INPUT Accesses the available video input channels (WATCH TV, CMPT, HDMI, VID and PC). To resume TV viewing, press the number buttons to enter the channel or press CH+ or CH- buttons.

MENU Brings up the Main Menu.

MUTE Reduces the TV's volume to its minimum level. Press again to restore the volume.

OK When in the menu system, selects highlighted items.



Remote control part number RC2254702/01

Note: If you need to replace your remote, call 1-800-338-0376 A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.

PIC Press to display the Picture submenus.

ON•OFF When in TV mode, turns the TV on or off. If in another mode (SAT/AUX or DVD) and programmed, will turn the device on or off.

REW, REPLAY, PLAY, NEXT, FWD, REC, STOP, PAUSE (buttons at TOP of the remote) If programmed, provides transport control for some remote-controllable devices, for example, VCRs or DVD players.

ZZZ (SLEEP) Press to display the *Time* menu and set *Sleep Timer*.

SAT/AUX Places the remote in SAT/AUX mode. If Autotuning is enabled, turns on the TV and tunes it to the satellite or cable box Video Input Channel. This button lights when you press a valid button in SAT/AUX mode (see Modes of Operation on page 28 for more details).

TV Turns on the TV and puts the remote in TV mode. Also displays current status.

V-CHIP Press to display the Parental Control submenu directly.

VOL - or VOL + Decreases or increases the TV's volume.

Using the INPUT Button

Use the INPUT button to scroll through the available video input channels and view devices you have connected to the TV.

- 1. Make sure the device you want to view is turned ON.
- 2. Press INPUT to tune to an available video input source and view the device.
- 3. To return to the previous channel, press INPUT until you return to the channel.

Programming 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 some RCA devices.

Notes:

- The TV button can't be programmed on this remote to control any device; it controls only this TV.
- The remote may not be compatible with all models of all brands of devices. It also may not operate all functions of your device.

Find Out If You Need to Program Remote

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

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

Programming Remote

The CANCEL button is used as visual feedback during the programming operation. During programming, the CANCEL button will light up when buttons are pressed and turn off when buttons are released. When programming is finished, the CANCEL button will long blink to indicate success and short blink to indicate fail.

Note: All device buttons are off during programming mode.

There are 3 ways to program the remote control to operate other devices: Direct Entry, Manual Code Search, and Automatic Code Search. If you have recently purchased the device you want to control or if the device has many codes, you might want to try the manual code search first.

Using Direct Entry

- 1. Turn on the device you want to control.
- 2. On your remote control, simultaneously press and hold the ON●OFF and MUTE buttons (approximately 3 seconds) until the CANCEL button lights up. Then release the buttons.
- 3. Press and release the device button (SAT/AUX or DVD) you want to program.
- 4. Enter a 4-digit code from the code list. The first digit indicates the database device type (0 for DVD, 1 for Satellite TV, 2 for Cable, 3 for DVR, 4 for VCR, 5 for Audio, 6 for CD), the other 3 digits indicate the brand. Look up the brand and code number(s) for the device in the code list at the end of this section.
- 5. The CANCEL button will long blink to indicate success. Repeat these steps until you've tested all codes for your device's brand or try to run a manual code search.

Using Manual Code Search

Note: Before using manual code search, you must use Direct Entry first. This lets the remote know which type of device should begin searching codes. Then proceed with the following steps.

- 1. Turn on the device you want to control.
- 2. On your remote control, simultaneously press and hold the ON●OFF and MUTE buttons (approximately 3 seconds) until the CANCEL button lights up. Then release the buttons.
- 3. Press and release the device button (SAT/AUX or DVD) you want to program.
- 4. Repeatedly press and release the left arrow or right arrow button, watching for the device to respond. If it does turn off, press and release the OK button to save the code. The CANCEL button will long blink to indicate success.
- 5. When all codes have been searched, the CANCEL button will short blink to indicate fail, then the remote returns to normal operation.

Note: Use right arrow to search ahead, use left arrow to search back. Or you can press the ON/OFF button to switch to Auto Code Search mode.

Using Automatic Code Search

- 1. Turn on the device you want to control.
- On your remote control, simultaneously press and hold the ON●OFF and MUTE (approximately 3 seconds) buttons until the CANCEL button lights up. Then release the buttons.
- 3. Press and release the device button you want to program.
- 4. Press and release the ON•OFF button once. The remote starts the code search.
- 5. Once the device turns off, quickly press the OK button to save the code. The CANCEL button will long blink to indicate success.
- 6. When all codes have been searched, the CANCEL button will short blink to indicate fail, then the remote returns to normal operation.

Note: If you accidentally passed the code before saving it, press the left arrow button to backtrack through the codes; then use the right arrow button to go forward through the codes again. Once the left arrow or right arrow button has been pressed, the search mode changes to Manual Code Search.

How to Use Remote After Programming It

Once the remote has been programmed successfully, it is ready to operate your devices. To operate a device:

- 1. Press the appropriate device button (SAT/AUX or DVD) to set the remote to control the device, for example, press DVD to control your DVD player.
- 2. Press ON•OFF to turn the device ON or OFF.
- 3. Use the remote buttons that apply to that device.

Modes of Operation

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).

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

Manual Reset of Remote

Manual Reset is used to reset the remote settings to default.

Note: The reset can also be done by replacing the batteries, but replacing the batteries does not always cause a reset, so you can perform a manual reset if the remote doesn't reset after battery replacement

- 1. On your remote control, simultaneously press the V-Chip, ON•OFF and MUTE buttons.
- 2. The CANCEL button will long blink to indicate success, and the remote control returns to normal operation.

Remote Code List

Note: The codes are programmable to any of the device buttons (SAT /AUX or DVD) on the remote. The remote code is a 4-digit code. The first digit indicates the database device type (Ofor DVD, 1 for Satellite TV, 2 for Cable, 3 for DVR, 4 for VCR, 5 for Audio and 6 for CD), the following 3 digits indicate the brands as follows:

Audio Codes
Accuphase032
Accurus
ADC
Admiral150
ADS151
Aiwa 014 072 073 109 214 225 279 287 335 369
Akai
Alpine
Altec Lansing140
Amphion Media Works
Amplifier Technologies
Anam080 148
Angstrom034
Apex
Arcam
Atlantic technology
Audio Research
Audio Source
Audiotrinise
Audiovox093 399 417
B & K
Bang & Olufsen
Biamp037
BOSE010 075 082 117 371 384
Boston Acoustics
Brix
CambridgeSoundWorks418
Cnetronic 074
Carver
Cary Audio Design
CCE
Chase Technologies029
Cinema Sound
Clarinette
Classe
Classic411
Coby
Creative
Criterion
Curtis
Cary Audio Design
Curtis Mathes
Daewoo132
Dell
Delphi
227 242 259 263 267 282 286 304 305 309 310
227 242 259 263 267 282 286 304 305 309 310 311 312 315 341 344 345 368 413
Digital Audio Control
Durabrand040 434 EAD159
Eclipse209
Elan041
ESA160
Fisher
Fisher
Fosgate042
Fosgate .042 Garrard .128 Gateway .145 GE .020\
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144 GPX .404 Gradiente .389
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144 GPX .404 Gradiente .389 Halfer .161
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144 GPX .404 421 Gradiente 389 Halfer 161 Harman/Kardon .013 026
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144 GPX .404 421 Gradiente .389 Halfer .161 Harman/Kardon .073 078 .078 088 .079 078 .079 078 .079 .078 .079 .078 .079 .078 .079 .078 .079 .078 .079 .078 .079 .078 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079 .079
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144 GPX .404 421 Gradiente .389 .161 Halfer .161 Harman/Kardon .013 .078 .078 .078 .088 .078 .114 .079 .152 .078 .162 .079 .162
Fosgate .042 Garrard .128 Gateway .145 GE .020\ Glory Horse .133 Go Video .144 GPX .404 Gradiente .389 Halfer .161 Harman/Kardon .013 073 .078 088 264 319 .114 Honyas .162 ILive .429
Fosgate .042 Garrard .128 Gateway .145 GE .020 Glory Horse .133 Go Video .144 GPX .404 421 Gradiente .389 .161 Halfer .161 Harman/Kardon .013 .078 .078 .078 .088 .078 .114 .079 .152 .078 .162 .079 .162

InsigniaIntegra			355
Jamo			.275
JBL	051	088	397
Jensen			
Jerrold			.391
Jerrold004 023 092 097 201231	249	261	272
273 300 303 307 318 355 359 360	366	373	376
377 408			
Kenwood005 089 105 106 189 198 200 219 223 232 237 240	185	186	188
189 198 200 219 223 232 237 240	251	255	296
308 320 331 370 380			
KLH		093	094
Knoll System			043
Koss			
Krell		.00.	326
Lasonic			149
Left Coast			
Lenoxx			
Levion			130
LexionLG		406	132
Linn		00	702
Liquid Video			1/1
Lloyds			105
Logitech			044
Luxman	•••••	•••••	0 4 0.
Magnadyne			164
Magnavox016 061 073		100	404
Manage and a control of the control	074	100	401
Marantz026 061 Mark Levinson	073	329	340
Mark Levinson			040
McIntosh			
MCS			
Memorex			
Midland			.048
Mitsubishi		.290	313
Modulaire			.125
Motorola			.139
NAD			.066
Nakamichi	.065	067	070
NEC			.027
Neo			158
Nexxtech			
Niro			
Norcent			135
Nova			.167
OmnifiOnkyo006 055 057 069 077 101			147
Onkyo006 055 057 069 077 101	190	194	203
210 213 233 252 260 265 266 269	270	271	274
278 291 292 306 323 324 348 350 Optimus022 074	398		
Optimus022 074	076	079	080
Oritron			.091
Panasonic002 087 102 108	112	113	153
229 289 301 316 354 357 364 375	385	386	390
395 396 422 423 424 425 426 427	433		
Parasound			.062
			100
Penny			. 120
Penny			168
Penny			168
Penny	026	061	168 073
Penny	026	061	168 073
Penny Philico Philips	026	061	168 073 435 183
Penny	026	061	168 073 435 183
Penny Philco	026 074 238 383	061 079 239	168 073 435 183 241
Penny Philco	026 074 238 383	061 079 239	168 073 435 183 241
Penny Philco Philips	026 074 238 383	061 079 239	168 073 435 183 241
Penny Philico Philips	026 074 238 383	061 079 239 073	168 073 435 183 241 436 328
Penny Philico	026 074 238 383 .026	061 079 239 073	168 073 435 183 241 436 328 .083
Penny Philico Philips	026 074 238 383 .026	061 079 239 073	168 073 435 183 241 436 328 .083 169 434
Penny Philico Philips	026 074 238 383 .026	061 079 239 073	168 073 435 183 241 436 328 .083 169 434
Penny Philico Philips	026 074 238 383 .026	061 079 239 073	168 073 435 183 241 436 328 .083 169 434
Penny Philico Philips	026 074 238 383 .026	061 079 239 073 .133 079	168 073 435 183 241 .436 328 .083 169 434 080
Penny Philico Philips	026 074 238 383 .026	061 079 239 073 .133 079	168 073 435 183 241 436 328 083 169 434 080
Penny Philico Philico Sa49 362 379 412 Philips Magnavox Pioneer 003 022 052 071 184 192 193 195 212 221 222 224 353 314 330 336 342 343 346 352 Polaroid Polk Audio Proscan Pyle Radio Shack RCA 007 022 083 093 099 363 367 372 380 393 RCA & Dimensia Realistic	026 074 238 383 .026	061 079 239 073 .133 079	168 073 435 183 241 436 328 083 169 434 080 437 125
Penny Philco Philips	026 074 238 383 .026	061 079 239 073 .133 079	168 073 435 183 241 436 328 083 169 434 080 437 125 138
Penny Philico Philips	026 074 238 383 .026	061 079 239 073 	168 073 435 183 241 436 328 083 169 434 080 437 125 138
Penny Philico Philips	026 074 238 383 026	061 079 239 073 	168 073 435 183 241 436 328 083 169 434 080 437 125 138 116 334
Penny Philico Philips	026 074 238 383 	061 079 239 073 	168 073 435 183 241 436 328 083 169 434 080 437 125 138 116 334 143
Penny Philico Philips	026 074 238 383 026 026	061 079 239 073 33 079	168 073 435 183 241 436 328 083 169 434 080 437 125 138 116 334 431
Penny Philico Philips	026 074 238 383 .026 .026 .033 332	061 079 239 073 .133 079	168 073 435 183 241 436 328 083 169 434 080 437 125 138 116 334 431 431 073
Penny Philico Philico Notation Philico Philips	026 074 238 383 .026 .026 	061 079 239 073 	168 073 435 183 241 436 328 083 169 434 080 437 125 138 116 334 431 073 414
Penny Philico Philips	026 074 238 383 .026 2074 434 	061 079 239 073 .133 079 428	168 073 435 183 241 436 328 083 169 434 080 437 125 138 116 334 431 073 414 170
Penny Philloo Phillos	026 074 238 383 .026 2074 434 332 .096	061 079 239 073 .133 079 428	168 073 435 183 241 436 328 083 169 434 125 138 334 431 073 414 170 127
Penny Philico Philips	026 074 238 383 .026 .026 	061 079 239 073 .133 079 428	168 073 435 183 241 436 328 083 169 434 115 118 334 431 073 414 170 127 123
Penny Philico Philips	026 074 238 383 .026 	061 079 239 073 .133 079 428 114	168 073 435 183 241 436 328 083 169 434 080 437 125 138 431 143 431 143 431 147 127 123 419
Penny Philico Philips	026 074 238 383 .026 	061 079 239 073 .133 079 428 114	168 073 435 183 241 436 328 083 169 434 080 437 125 138 431 143 431 143 431 147 127 123 419

Sherwood	
358 356 374 382 387 392 Soundesign SoundStream SoundStream Starcom Stereophonics STS Sunfire Sylvania Symphonic TAG McLaren Tao Teac Teac Teehnics 280 281 283 299 Techwood Thorens Toshiba Vector Research Venturer Victor Wards XM Radio Yamaha Wards XM Radio Yamaha Wards 159 060 064 081 086 191 243 244 245 246 247 262 317 321 347 351 402 405 Vorx Zenith	

Cable Codes

Cable Codes		
ABC008 009 022 (040 041 042 081 085 Adelphia Americast	026 032	034
040 04 042 08 085 Adalahia	005	025
Americast		023
Antronix	045	032
Archor	046	040
Archer AT & T	040	047
Bell South		002
Cable Vision		
Cabletenna		
Cableview		040
Citizen		051
Clearmaster		
ClearMax		001
Colour Voice	ПЛО	050
Comcast(
Comtronics	035	051
Contec	126 031	053
Coolmax		
COX		001
Director	001	089
Eastern		
Everquest	035	086
Focus		088
GC Electronics	046	051
GE		
Gemini		
General Instrument000 001 041 (083 089	101
Goldstar	035	036
Goldstar Hamlin057 058 059 065 071 074 (082 095	096
Hitachi		041
Illico		102
Jasco		086
Jerrold001 041 055 060 061 0	075 081	083
000 007 000 101		
086 087 089 101 Magnavox		062
Memorex	063	085
Monarch		.051
Motorola .001 002 018 039 087 089 (Movie Time	094 101	103
Movie Time	051	064
Multi Canal		051
Multitech		.091
NEC		043

NET Brazil			017 232		10
Novavision NSC			022 236 027	231 252	004 024 116 198 204 214 23
Oak			059		027 046 14
Pace007 008 (220		018 01
014 015 016 017 022 024 0			orks014 033		015 026 035 44
Panasonic			014 033		25
Paragon		Anaba	067	Landel	22
Philips	048 049 050 052 056		068		034 051 05
062 067 068 069 098 099			045 046 126 136 164 166 176		11
Philips Magnavox		188 242 243 244		Lexicon	80
Pioneer007 019 0	124 025 036 037 070		426	LG	013 284 331 333 352 36
084 090 102	000		050	370 373 460 48	
Popular Mechanics Proscan			032		11
Pulsa			351 069		11
Quasar			.004 011 027 224 454 471 475		323 332 348 35
Radio Shack			070		
RCA			071		10
Realistic			048	Logix	11
Recoton			072		11
legal	059 071 082 096 097		046 153	Luxor	10
legency	054	Blue Parade	043	Magnavox	010 023 039 042 052 15
Rembrandt			245 430 441	156 185 326 35	66 380 388 437 456
Rogers			n073 444		08
Runco			022 233 372 406		042 156 27
Samsung			os024		010 022 140 25
Scientific Atlanta002 (Vorks474		04
20 022 023 024 025 026 (127 028 029 030 031		074		046 25
32 033 034 102	005 054 055 000		049 113 414		016 038 040 161 19
Signal		Classic	246		08
Signature		Coby	216 247 463		45 248 25
SL Marx Sony			012 030 031 157 192 206 451		248 20 25
prucer			451		04
Standard Component					05
Starcom			006 050		055 27
targate			491		08
tarquest			141 234 271 419		07
upercable			024 116 165 175 195 296 467		030 222 237 258 27
upermax			289		025 039 159 190 225 45
eleView			010 140		04
IME WARNER			076		06
imeless	035	Duarabrand	027 051 054 113 259	Oritron	026 035 26
ocom		DVD2000	040		02
oshiba			301		004 024 039 116 117 127 14
ristar			084		78 208 265 266 267 290 291 29
usa			064		36 341 371 383 385 386 387 40
V86			.010 023 052 248 391 395 465		36 438 443 449 450 476 477 47
J.S.Electronics			056	479 480 489 49	
Jnika Jnited Cable			052 235 077	Philips	06 002 010 039 042 150 156 16
Jniversal			249 280		002 010 039 042 130 136 16 05 334 337 342 391 437 448
'2			078		ox162 209 33
erizon					036 043 134 146 160 170 181 19
ideotron			010 052 340 379 391		32 295 313 314 315 339 377 42
iew Star			323		014 390 42
ision			041 046 125 167 205 250		04
ortex View			003 187 226 227 323 402		
enith		404 413 418 420			010 39
entek			425		09
		GPX	251 278 451 458	Princeton	09
CD Cod	des		024 274		04
			046		041 125 18
iwa			042		09
OSE			199 210		35
enon			.003 144 200 217 299 376 417		026 239 26
arman/Kardon			045		108 027 041 043 046 125 130 17
VC					28 288 338 389 401 411 422 44
enwood			081		03
Marantz			484		06
nkyo			053		04
anasonic			105		
hilips			046 013 052 113 375 470		
ioneer			013 052 113 375 470		20 03 024 120 124 139 145 148 18
CA			346		22 325 330 336 355 357 368 38
anyo harp					22 320 330 330 330 337 306 36 5 439 445 472 481 485 487
herwood			083		022 233 37
ony			452		022 280 347 424 46
eac			106		e32
echnics			031		0
amaha			107		010 128 137 320 343 344 37
			44 142 143 207 212 219 269	379 410 473	
= -			9 321 364 365 366 367 397		09
DVD)	398399 400 403 4			262 47
ccele Vision	177		084		166 24
			108	Shinsonic	
Accurian			027		09

Sonic Blue	020 037 155 158 335 354 435 440	115 163 358 442	118 168 360 446	121 223 362 455	122 229 381 464	123 268 392 466
Sungale Superscan						
SVA						
Sylvania	.010.023	052	340	391	395	416
Symphonic					.010	391
Teac						
Technics					.004	024
Technosonic						.097
Techwood						
Terapin						
Theta Digital						
Tivo	002 021	022	റാവ	110	120	122
138 171 180 182 2	286 207	302	303	301	300	310
311 316 327 328 3						
Tredex						
Trutech						.273
TView						
Urban Concepts						
US Logic						.224
Venturer						
Vizio						
Vocopro		•••••		• • • • • • • • • • • • • • • • • • • •		.102
Westinghouse Xbox						.492
Xwave						
Yamaha						
196 202 211 215 2				100	100	177
Zenith013 298 349 350 369 4	039 113			213	227	264
WHITE WESTINGH						.492

DVD/VCR Combo Codes

Where the code is listed as [### ###] the first is for the DVD and the second is for the VCR. Otherwise just the one code operates both the DVD and the VCR. Remember to add the code for the database device type 0 for DVD, 4 for VCR, [0### 4###].

device type o for DVD, 4 for VOIT, formit	4ππ1	πj.
Broksonic	[417 [113 [366 [403 [403	103] 117] 054] 094] 085]
LG[369 016] [373 060]	[013	047]
[331 060] [370 060] Pioneer Sansui	[022 [410 [119 [227 [390 [414 [419 .[113	072] 111] 091] 099] 074] 117] 107] 117]
Funai	[379	125]
Funai	[404	UOUJ
Goldstar	[425	114]
Memorex	[022	072]
Panasonic[383 061] [385 068] [407 089] [407 105] [371 061] Philips[156 009]	1386	0691
Polaroid	[423 [391 [422 [396	112] 075] 110] 078]
[405 087] [412 098] [415 087] Sanyo Sony	[362 [392 [416 [391 [289 [236	050] 090] 103] 075] 126] 127]

DVR Codes

DVI Ocacs	
ABS	020
Alienware	020
AT&T	
Bang & Olufsen	030
O. Is a see a super	023
Cyberpower	020
Dell	020
DIRECTV002 007 008 010 011 012	2015
019 021 024 026 027	
Dish Network017	
Dishpro	017
Echostar017	
Expressvu	
Gateway	020
GOI	017
Hewlett Packard	
HNS	
Howard Computers	020
HP	020
HTS	
Hughes001 010 011 012	017
Hughes Network System001 010	0011
012 015 024 026 027	
Humax	015
Hush	
iBUYPOWER	
JVC001 017	7018
Linksys	020
Media Center PC	
Microsoft	
Mind	
Niveus Media	
Northgate	
Panasonic	
Philips	1 005
Pioneer	+ 023
Proscan	
RCA001 002 009 016 019	
ReplayTV004 022	
Samsung009	024
Sonic Blue004 022	
Sony	
Stack 9	020
Systemax	020
Tagar Systems	020
Tivo000 001 002 003 010	013
014 015 025 026 027 028	
Toshiba006	3020
Touch	020
UltimateTV	
Viewsonic	000
Voodoo	
ZT Group	020
Home Theatre in a Box	

Home Theatre in a Box

Where the code is listed as [### ###] the first is for the DVD and the second is for the AUDIO. Otherwise just the one code operates both the DVD and the AUDIO. Remember to add the code for the database device Type, 0 for DVD, 5 for Audio [0### 5###].

Apex 457 403	461	407
Audiovox[471 417] [475 399]	[454	399]
BOSE[430 384]	[441	010]
CambridgeSoundWorks	.[474	418]
Classic	[463	411]
Coby	[451	018]
Curtis	.[451	409]
Denon	.[467	413]
Emerson	.[465	017]
GPX[451 421]	[458	404]
iLive	[484].	429]
Insignia	.[470	416]
Jamo	.[082	275]
JBL	[452	397]
JBL Koss	[448	394]
LG[284 432] [460 406]	[486	406]
[488 406]		
Magnavox[437 016]	[456	401]
Onkyo	.[453	398]
Panasonic[431 385] [432 390]		
[436 385] [438 385] [449 395] [450 396]		
[477 423] [478 425] [479 426] [480 427] [490 434] [438 424]	[489	433]
	[440	4401
Philips[437 016]	[440	2021
Pioneer		
RCA[439 011] [445 011]	[44]	227]
[485 431] [487 431] [481 428]	[46]	33Z]

Sanyo	[473 [474 [435 [464	419] 420] 387]
Toshiba	.[462 [469	415]
Zenith[460 406] [425 019] Durabrand	[259	434]

Satellite TV Codes

Satellite IV Codes
Alphastar051
Amstrad 100
Chanarral 045
DIRECTV
013 014 015 031 032 034 036 039 043 044 054
055 057 058 059 062 063 064 066 067 068 069
074 078 079 080 081 084 086 087
Dish Network
021 022 023 024 025 026 027 028 029 030 033
035 037 041 061 083
Dishpro
Orake046
Echostar002 004 033 035 037 061 071 083
Expressvu
BELL EXPRESSVU071
ORTEC STAR101
GE063 087
General Instrument047 048 056
3OI061
Grundig
Hisense
Hitachi
HIS061
Hughes Network Systems003 006
Humax090
Lo
011 050
-GU11 009
Magnavox014
Vernorex .014 Vitsubishi .006 008 064 093 Votorola .038 056 065
Viitsubisi ii
Motorola .038 056 065 Next Level .056 Pace .100 Pansaonic .010 062 086 092 096 100 Pansat .088 Paysat .014 Philips .001 003 009 014 015 031 DEL 055 087 084 081
Page 100
Panasonic 010,062,086,002,006,100
Paneat 088
Paysat 014
Philips 001 003 009 014 015 031
054 055 057 064 081
Philips Magnayox 009 054 055
Pioneer
Philips 001 003 009 014 015 031 054 055 057 064 081 Philips Magnavox 009 054 055 Pioneer 015 Primestar 050 013 036 063 095 Proton 060 Radio Shack 056
Proscan013 036 063 095
Proton
Radio Shack056
RCA000 003 013 034 040 044 058 063 075 076 077 078 080 082 091 094 095
058 063 075 076 077 078 080 082 091 094 095
097
Realistic049
Samsung003 007 015 057 070 085 098
930 063 073 076 077 076 060 082 091 094 093 997 997 998 998 998 998 998 998 998 999 999
SKY NETWORK100
Sony005 032 042 066 074 079 084
Star Choice
STS053
Sylvania099
Fivo003 015 057
IOSNIDAUUb UU8 UU9 Ub4
JltimateTV058
Iniden 014
JS Digital060
JSD1V060
JS Digital
/oom056 Zenith012 067
<u>cenith</u> 012 067
VOD Carles
/// 'Ll / 'codos

VCR Codes

ABS	038
Adventura	
ADMIRAL	097
Aiwa	010 028 035 125
Aiko	107

Akai017 018 0	33 127
Alienware American High	038
Apex	020
Asha	021
Audio Dynamics	019
Audiovox022 0	35 121
Bang & Olufsen	037
Bell & Howell	021
Broksonic	72 088
Calix	22 035
Candle 021 022 0	23 024
Canon	15 025
CARVER	102
CCE	107 01 117
Citizen021 022 023 0	24 035
Colortyme	019
COLT	046
Craig021 022 0	26 035
Curtis Mathes012 015 0	19 021
024 025 Cybernex	021
CyberPower	038
Cyperpower	038
Daewoo011 023 027 0 Davidson0	28 107
Davidson0	10 125
DBX	
Dell Denon	
DiamondVision	
Dimensia	012
Durabrand	17 117
Dynatech010 0	28 125
Electrohome	22 035
Electrophonic	22 035
025 027 028 035 075 103 125	22 020
Emerex	001
ESA	
Fisher020 0	26 045
Fuji0	18 025
Funai	1/5 125
Garrard010 0: Gateway	28 125 125
GE 012 015 0	21 025
Go Video084 086 087 100 106 1	08 109
Goldstar019 022 024 0	35 114
Gradiente010 0	
Harley Davidson	
Harman/KardonHARWOOD	
Headquater	040
Hewlett Packard	
Hi-Q	026
Hitachi010 013 030 033 1	03 125
Howard Computers	
HP	
Hughes Network Systems	030
iBUYPOWER	038
Insignia016 0	47 117
Instant Replay	025
JC Penney015 019 020 021 022 02	25 0230
JCL	025
Jesen	33 041
052 053 054 055 056 057 058 059 079 0	80 081
082 085 094 095	00 00 .
KEC	035
Kenwood019 020 0	
Kodak022 C	
KLH016 022 0	
Linksys	
Lloyd's010 0	28 28 125
LOGIK	046
LXI0	22 N3F
	22 000
magnavox 006 007 010 015 025 032 071 1	04 125
Magnin	04 125 022
Magninmagnasonic	04 125 022 010
Magnin	04 125 022 010 24 025
Magnin magnasonic 019 020 C Marta 0	04 125 022 010 24 025 22 035
Magnin magnasonic Marantz .019 020 C Marta .0 Matsushita .0 Media Center PC	04 125 022 010 24 025 22 035 025
Magnin magnasonic Marantz .019 020 C Marta .0 Matsushita .0 Media Center PC	04 125 022 010 24 025 22 035 025
Magnin magnasonic	04 125 022 010 24 025 22 035 025

MGN Technology		021
MGA		300.
Microsoft		
Midland Mind		
Minolta		
Mitsubishi		
Motorola		025
Montgomery ward		097
MTC 010	N21	125
Multitech010 021 028	029	125
NEC019 020 (024	033
Nikko Niveus Media	022	035
Noblex		
Northgate		
Olympus		025
Orion		.014
Orion	068	069
089 105 118 119		
Penney		
Pentax		030
Pentex Research		024
Philips 000 025	075	102
Philips	0/5	104
Pilot		U35
Pioneer	030	064
Polaroid	074	112
Polk Audio		
Presidian		075
Proscan012	043	044
PROTECPROFITRONIC		046
PROFITRONIC		021
Pulsar	007	032
Quarter		
Quartz		020
Quasar	015	025
Radio Shack010 Radio Shack/Realistic015 020	022	125
	021	022
025 026 028 Radix	000	001
Randov	022	030
Randex	022	000
073 083 097 110	500	0-72
Realistic010 015 020 021 022	023	025
026 028 035 125		
Ricavision		038
Ricoh		
Runco	007	032
Samsung005 021 023 029 070 078	087	098
Sanky	007	032
Sunsui	372	125
Sanyo020 021 026	045	113
Scott	023	021
Sears010 020 022 025 026 030 Sharp010 063 111	035	125
Shintom	124	125
Shogun		
Singer		
SIGNATURE	020	110
Sony001 010 018 031 038 040	048	049
Sony001 010 018 031 038 040 050 066 077 090 093 123 125		
Stack		038
Stack 9		
STS		
Superscan		128
Sylvania010 015 025 028 075 102	103	125
Symphonic010 028 036	0/5	125
Systemax		
Tagar Systems	•••••	000
Tandy		02L
Tatung		033
Teac		
Technics		
Teknika010 022 025 028		125
Thomas	035	
1110111a5	035 010	125
TMK	010 (125)21
TMK002 023 030 038 051 067	010 (125)21
TMK002 023 030 038 051 067 092 096 115	010 (076	125 021 091
TMK	010 (076 022	125 021 091 035
TMK Toshiba002 023 030 038 051 067 092 096 115 Totevision021 Touch	010 (076 022	125 021 091 035 038
TMK	010 (076 022	125 021 091 035 038 021
TMK Toshiba002 023 030 038 051 067 092 096 115 Totevision	010 (076 022 019	125 021 091 035 035 021 023
TMK	010 (076 022 019	125 021 091 035 035 021 023

Videosonic	021
Viewsonic	
Villain	
Voodoo	038
Wards	010 021 022 023 025
026 028 030 125	
White Westinghouse	036
Westinghouse	046
XR-100	
Yamaha	019 020 024 033
Zenith007 010 01	6 018 032 034 099 116
117 120 122 125	
ZT Group	038

3 Using TV Features

Channel Banner

There are several indicators that might appear when you press the INFO button on the remote. This display is called the Channel Banner. The following list describes the items on the Channel Banner screen (left to right and top to bottom).



Parent Control The Parent Control state (locked or unlocked) of the current program. TV-G Rating information of the current program Stereo If the current channel is analog, Stereo appears when broadcasting in stereo and Mono appears when the current channel is broadcasting in mono. If the current channel is digital, this space will be blank. SAP If the current channel is analog, this will show it's broadcasting SAP (Second Audio Program) information. If the current channel is digital, this will show language. HDTV 720p Broadcast signal resolution CC Closed Captioning is available on the current channel. **D 10 CBS** The D means it's a digital channel. If it's an analog channel, A is displayed. The channel, sub-channel (if available for digital channels) and program (only for digital channels) you're currently viewing are displayed. Stretch Current screen format. If there are bars on the screen, you might be able to get rid of them by pressing the FORMAT button on the remote. Go to page 35 for more information on screen formats. ZZZ 00.25 Current time left on sleep timer, if the sleep timer is set. **⊘**0605 PM Current time

Autotuning

The Autotuning feature automatically tunes the TV to the correct video input channel for different devices you have connected to your TV. When you set up Autotuning in the menu system you don't have to remember to change your TV to the VID1 input, for example, when you want to watch a tape on the VCR. To set up the Autotuning feature:

- 1. Press MENU (the Main Menu appears).
- 2. Highlight Setup and press OK on your remote.
- 3. Highlight Autotuning and press OK.
- 4. Choose which device button you would like to set:

Set DVD Channel Lets you set up the channel the TV tunes to when you press the DVD button.

Set SAT-AUX Channel Lets you set up the channel the TV tunes to when you press the SAT/AUX button.

5. Press the right arrow button to select the choice that matches the way you have the device connected to this TV.

Note: This feature only works with other RCA devices.



You can select from the following inputs or channels:

Disabled Choose this if you don't have a device connected to the TV or if you don't want the TV to automatically tune to the correct channel/input when you're using this device.

Channel 3 or 4 Device is connected to the ANTENNA/CABLE jack on the back of the TV, and you want the TV to tune to channel 3 when you press the corresponding button on the remote. Reminder: make sure the device's Channel 3/4 switch is set to channel 3.

VID (Video Input) Device is connected to the VIDEO INPUT jack on the back of the TV and you want the TV to tune to the VIDEO INPUT channel when you press the corresponding device button.

CMPT (Component Video Input) Compatible component VIDEO source, such as an HDTV tuner, satellite receiver, or DVD player, is connected to the three Component VIDEO INPUT jacks (Y Pb Pr) on the back of the TV and you want the TV to tune to the component VIDEO INPUT channel (CMPT) when you press the corresponding device button.

PC Device is connected to the PC INPUT jack on the back of the TV and you want the TV to tune to the PC input when you press the corresponding device button

HDMI Device is connected to the HDMI/DVI INPUT on the back of the TV, and you want the TV to tune to the HDMI INPUT channel when you press the corresponding device button.

Parental Controls and V-Chip

The choices in the *US V-Chip* and *Canada V-Chip* menus involve software inside your TV referred to as V-Chip) which allows you to block TV programs and movies. TV programs can be blocked by age-based ratings, such as *TV-MA*, which is explained on page 32. If available, TV programs can also be blocked by content, such as adult language (*L*). This is explained on page 33. Movies can only be blocked by age-based ratings. This is explained on page 37. Once you block programs, you can unblock programs by entering a password. By default, the software inside your TV is turned off or unlocked. For instructions to lock V-Chip, see page 32.

How V-Chip Works for USA and Canada

V-Chip reads 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, you will receive the message This channel is blocked. Change channel or press OK to enter your password and temporarily deactivate the parental controls.

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. You can also block out programs that have been given an Exempt rating, and programs that are considered unrated. Go to page 44 for the US and Canada ratings explanations.



Note: Parental control settings are not available for HDMI, CMPT or PC INPUTS. These settings must be set in the connected device's parental controls.



Note: If you do not lock parental controls, none of the settings for V-Chip, Button Block or Block Channel will take effect

Lock/Unlock Parental Controls

- When the Parental Control menu is accessed from the Main menu and the parental controls are permanently unlocked, the following message is displayed:
 - "Parental controls are UNLOCKED. Rating limits and channel block will NOT require a password to view the picture. Use "Lock parental controls" to lock. Press OK key to continue."
- Pressing OK displays the Parental Control menu and highlight Lock Parental Control.
- To lock/unlock parental controls, press OK, then enter a 4 digit password using the digit keys.

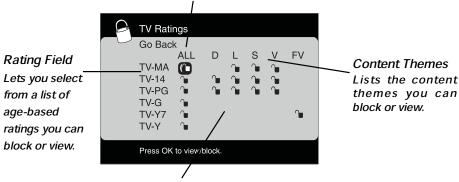
Note: When you enter the correct password, the Password menu is cleared and you will enter the Parental Control menu. If an invalid password is entered, you must enter again. If you forget your password, you can enter the factory default code: 4116. If you want to change the password, go to page 35 for more information.

V-Chip Rating Screen

The following is an example of where items are located within the TV Ratings option with the US V-Chip menu.

Rating Status Field

Lets you select whether the status of the agebased rating to the left limit is view or block.



Content Status Fields

Lets you select which content themes to view for the selected rating, and whether the status of the content theme is currently unlocked ($^{\frown}$) or locked ($^{\frown}$).

US V-Chip TV Ratings

Blocking Age-Based Ratings

You can automatically block all program ratings above a specified age-based rating level.

- 1. Choose *Parental Control* from the Main menu. If parental controls have previously been locked, you must enter your password.
- 2. Highlight and select V-Chip. Then highlight and select US V-Chip.
- 3. Highlight and select TV Ratings.
- 4. Press the up or down arrow button to scroll to the rating corresponding with the lowest rating you do not want the child to watch.
- 5. Press the OK button to toggle between *View* and *Block*. The status for the rating and all higher ratings automatically changes to *Block*.



- 6. Use the MENU button repeatedly to get back to the Parental Control menu.
- 7. Select *Lock Parental Control* from the Parental Control menu for rating limits to take effect, you must press OK and enter a 4-digit password.

To view age-based ratings after you've locked them, follow the same steps as above to unlock.

Blocking Specific Content Themes

You can block programs based on their content. (Content is represented by the *D, L, S, V* and *FV* on your screen.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well. To block program content:

- 1. Determine the content themes you want to block.
- 2. Press the down arrow button to scroll to the rating whose content theme you want to change.
- 3. Press the right arrow button to move the highlight to a particular content theme.
- 4. Press the OK button to change its status to block. (For example, you block the language (L) corresponding with TV-14. The language for TV-MA is blocked as well.)

To view content theme after you've locked them, follow the same steps as above to unlock. **Note:** If you unlock the language corresponding with TV-14, the language for TV-MA doesn't unlock. You have to unlock the content theme status for each rating separately.

Hierarch	y of Age-Based Ratings
TV-MA	Mature Audience Only
TV-14	Parents Strongly Cautioned
TV-PG	Parents Guidance Suggested
TV-G	General Audience
TV-Y7	Directed to Children 7 Years and Older
TV-Y	All Children

	Content Themes
D	Sexually Explicit Dialogue
L	Adult Language
S	Sexual Situations
V	Violence
FV	Fantasy Violence



Note: Broadcasters are not required to provide content themes or age-based ratings. You must remember to lock Parental Controls for rating limits to take effect

US V-Chip Movie Rating Limit

Set movie rating limits by blocking movies rated above a specified level.

To access the Movie Rating Limit menu:

- 1. Press MENU on the remote control (the TV's Main Menu appears).
- 2. Select Parental Control.
- 3. Highlight and select V-Chip. Then highlight and select US V-Chip.
- 4. Highlight and select Movie Ratings.
- 5. Press the down arrow button to scroll to the rating you want to change.
- 6. Press the OK button to change its status to block (all ratings above the one you selected change to block).





Note: These ratings

are available only if

the broadcaster is sending them.

US V-Chip Canada V-Chip Region Name

et Downloadable Data

Note: You must

effect

remember to lock

parental controls for rating limits to take

VIEW

Blocking Canada V-Chip Ratings

If you receive Canadian programs you can block Canadian English and French V-Chip by ratings only. When you block a particular rating, you automatically block the higher rated programs as well. To block Canadian English and French program ratings:

- 1. Press MENU on the remote control (the TV's Main Menu appears).
- 2. Select Parental Control.
- 3. Select V-Chip.
- 4. Select Canada V-Chip.
- 5. Highlight English Ratings or French Ratings and press OK.
- 6. Press the down arrow button to scroll to the rating you want to change.
- 7. Press the OK button to change its status to block (all ratings above the one you selected change to block).

Future Rating Region

You might notice an option in your Parental Control menu that wasn't there before. This is because broadcasters have the capability to add a new rating system for TV programs.

These

ratings let you define additional parameters for parental controls. This option and its name are dependent on the content acquired from the broadcaster.

Reset Downloadable Data

Select this option to reset the downloadable V-Chip data.

Blocking Unrated/Exempt Programs

The *Unrated Æxempt Ratings* option lets you decide if programs that the V-Chip recognizes as unrated or exempt can be viewed. Unrated TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings. The Exempt option applies to both USA and Canadian unrated programs and Canadian programs rated E.

Press the down arrow button to highlight *Unrated Exempt*. Then press OK to toggle between *View* and *Block*.

View All unrated programs are available

Block All unrated programs are not available.

Block Channel

Turn this option on to block the channel you see in the Select Channel option.

Use the left/right arrow buttons to find the channel you want to block, then press the down arrow button to select *Block Channel*. Press OK to place a check mark in the *Block Channel* box to block the channel. When you tune to that channel you'll need to enter a password to view the channel if parental control is locked.



Button Block

Select this option to block (disable) or unblock (enable) the TV's side panel buttons so that they can't be used by someone, like a young child. The remote still tunes to any channel. If you're using this to keep children from changing channels, remove access to any remote that is capable of operating the television while you have the side panel blocked. Don't forget to lock parental controls after you change the status. If you don't, the *Button Block* action will not take effect.

Change Password

This option let you set a new V-chip password.

- 1. Press MENU on the remote control (the TV's Main Menu appears).
- 2. Select Parental Control.
- 3. Select Change Password and press OK to display the password resetting menu.
- 4. Using number buttons to enter the new password, press OK. Enter the new password again and press OK to confirm.



Additional Features

There are additional features available unrelated to parental controls. These features can be found in other menus.

Screen Formats

Screen format is the way the picture is displayed on your TV. Press the FORMAT buttons on your remote to see if a different format is available for the video you are viewing. The format changes as you press the FORMAT button and the format type is displayed at the bottom of the screen.

Analog video is sent in a 4/3 format, which your TV displays in a 16/9 format. Most digital video is sent in a 16/9 format which does fill your screen, but sometimes it is sent in 4/3 which does not fill your screen. It depends on how the station or device connected to your TV is formatting the video. If there are bars on the screen, press the FORMAT buttons to try a different format that may eliminate the bars. Some bars can't be removed because of the way the format is sent by the broadcaster.

The different formats available and what they look like follow. Each format is available for analog video, but it might not be available for digital video.



Zoom





Stretch Center

4 Using TV Menu



Using Menu System

This section explores the menus of your TV. Each menu is outlined and detailed to help you get the most from your TV. The Parental Control menu is discussed in Chapter 3. To access the menu system:

- 1. Press the MENU button.
- 2. Use the up and down arrow buttons to highlight an option and press OK to display it. The name of the menu is displayed at the top of the menu screen.
- 3. Press the up and down arrow buttons to move to a different option within the menu. If necessary, press the OK button to display the choices of the option you've highlighted. If available, use the text at the bottom of each screen for help.
- 4. To return to the Main Menu, press the MENU button until it's displayed.

Descriptions of each menu are discussed in the order they appear.

There are two ways to exit a menu:

- Press the CANCEL button. The menus are cleared from the screen, and you return to TV viewing.
- Press the MENU button repeatedly until the menus disappear.

Picture Menu

The Picture menu contains menus and controls to configure how the picture looks. The Picture menu options apply to the video for the main TV and VIDEO INPUT selections. All picture options can be applied to each input - VID1, VID2, CMPT, HDM11 or HDM2, and PC.

Picture Settings:

Preset Displays a choice list that lets you select one of the preset picture settings: Vibrant, Gaming, Natural, or Personal. Choose the setting that is best for your viewing environment. **Brightness** Use the left or right arrow buttons to adjust the brightness of the picture.

Contrast Use the left or right arrow buttons to adjust the difference between the light and dark areas of the picture.

Sharpness (not available on PC) Use the right or left arrow buttons to adjust the crispness of the edges in the picture.

Color Use the right or left arrow buttons to adjust the richness of the color.

Tint (not available on PC) Adjusts the balance between the red and green levels. **Color Warmth** Displays a choice list that lets you set one of three automatic color

adjustments: *Cool* for a more blue palette of picture colors; *Normal*; or *Warm* for a more red palette of picture colors. The warm setting corresponds to the NTSC standard of 6500 K. When you change any of these picture settings, the Picture Preset changes to *Personal*. Use the left or right arrow button to make adjustments.

Screen Format Change the screen format among *Normal, Center, Zoom* and *Stretch*. For more information on screen format, go to page 35.





Film Mode (3:2 Pulldown) Automatically detects video sources that were originally recorded on film (like most movies) and subsequently converted to a different format (for TV broadcast, for example). Film mode processes the converted signal so that it looks as close as possible to the original. Another name for this process is reverse 3:2 pulldown.

The *On* setting (recommended): place a check in the box, enables the feature only when the TV detects that movie playback quality could be improved.

The Off setting (uncheck the box) turns off film mode upconversion. Try using this setting if you think the reverse 3:2 Pulldown is causing distortions in your picture.

PC Settings Adjust the PC settings when in PC mode.

Video Noise Reduction (not available on PC or digital channels) Reduces picture "static" or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions. Press the right arrow to choose between: *Low* for a softer, smoother picture that retains picture sharpness and detail; *Normal* for a slightly softer picture than the *Low* setting; *High* for an even softer, smoother picture than the other settings (the picture detail is somewhat decreased).

Note: Video noise reduction is available for the CMPT inputs only if the signal is 480.

Sound Menu

The Sound menu lets you adjust audio output. To access the Sound menu, press MENU on the remote, and then select *Sound* from the Main Menu. The following sound items can be adjusted:

Treble Improves treble output.

Bass Improves bass output.

Balance Press the right or left arrow buttons to adjust how much audio is sent to the left and right speakers.

Analog TV Sound Controls the way the sound comes through your speakers. The options available vary according to the input selected.

Mono (available for regular TV viewing only) Plays the sound in mono only. Use this setting when receiving broadcasts with weak stereo signals.

Stereo Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The word Stereo appears in the channel banner when you tune to a program that is broadcast in stereo.

Second Audio Program (SAP) Plays the program's audio in a second language, if one is available. The letters SAP appear in the channel banner when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono. SAP is also used to broadcast a program's audio with descriptions of the video for the visually impaired.

Default Audio Language Choose the language you prefer for dialog on digital channels. If your preferred language is being broadcast with a program, then the TV plays it. If not, then the TV plays the default audio for the program (usually English in the U.S.). The default digital channel audio language options are *English, French, Spanish, German, Italian, Japanese, Chinese, Korean.*

Current Audio Language (Not available for analog channels) Press the right arrow to choose from the audio languages available for the program you're watching. The language you choose becomes your preferred audio language for all digital channels until you turn the TV off. If the language you choose here is not being broadcast with a program, then the TV plays the default audio for the program (usually English in the U.S.).

Note: This menu will gray-out when current channel selected is analog.



Channel Menu



The Channel Setup menu lets you configure the TV to fit its surroundings and your preferences. Press MENU on the remote, and then select *Channel* from the Main Menu.

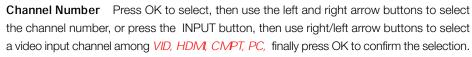
Channel List The Channel List menu allows you to view all the channels available in your channel list. Press the up or down arrow button to highlight a channel then press OK to tune to the channel. Press left and right arrow buttons to scroll to the next page.

Auto Channel Search Select *Auto Channel Search*, then press OK to access the Auto Channel Search menu.

Signal Type Choose the type of signal you have connected to the ANTENNA/CABLE INPUT.

Auto Channel Search Searches for channels the TV is receiving. Go to page 17 for more information.

List and Labels Edit the channels in the list or choose labels for your video inputs. Select *List and Labels*, then press OK to display the submenu of List and Labels.



In Channel List (only available for TV channels) If you've entered a channel you want to add to the channel list, highlight *In Channel List* and press the OK button to place a check in the check box. If you've entered a channel you want to delete from the channel list, press the OK button to uncheck the box. When an AV INPUT is displayed in the Channel number field, the line "*In channel list*" is grayed out.

Channel Label Display the channel label, this line is always grayed out for the label can't be modified by user.



The Parental Control menu is explained in Chapter 3. Go to page 35 for more information.

Setup Menu

Closed Caption

Many programs are encoded with closed-captioning information, which lets you display the audio portion of a program as text on the TV screen.

Note: Closed caption settings are not available for HDM1, HDM12 CMPT INPUTS. These settings must be set in the connected device's menu. Closed captioning is not available on all channels at all times. Only specific programs are encoded with closed-captioning information. When a program is closed captioned, CC is displayed in the channel banner. See Chapter 3 for more information about the channel banner. The closed caption options are:

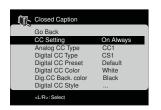
CC Setting Lets you choose the way closed captioning information appears on the screen.

Off No captioning information displayed.

On Always Captioning information shown always, when available.

On When Muted Captioning information shown when TV is muted, and when available.





Analog CC Type If available, lets you select the captioning mode used for displaying captioning information. If you are unsure of the differences among the modes, you may prefer to leave the closed captioned mode set to CC1, which displays complete text of the program in the primary language in your area.

Digital CC Type If available, lets you select a closed caption service mode (1.6) for digital channels.

Digital CC Preset If available, lets you select between *Default* and *Custom* options. *Custom* changes according to what you set for the options below.

Digital CC Color Lets you choose the color of the digital closed-caption text: White, Red, Green, Blue, Yellow, Magenta, Cyan or Black.

Dig. CC Back. Color Lets you choose the color of the area of the screen behind the digital closed-caption text: *White, Red, Green, Blue, Yellow, Magenta, Cyan or Black.*

Digital CC Style If available, lets you customize the following display options:

Digital CC Opacity Lets you set the appearance of the digital closed-caption text: Solid, Transparent, Translucent, or Flashing.

Digital CC Back. Opacity Lets you set the area of the screen behind the digital closed-caption text: *Solid, Transparent, Translucent,* or *Flashing.*

Digital CC Edge Color Lets you choose the edge color of the digital closed-caption text: *Black, White, Red, Green, Blue, Yellow, Magenta,* or *Cyan.*

Digital CC Edge Type Lets you choose the edge type of the digital closed-caption text: *None, Raised, Depressed, Outline, Left shadow, Right shadow.*

Digital CC Size Lets you set the size of the digital closed-caption text. You can choose *Standard, Large,* or *Small.*

Digital CC Font Lets you select a character design for the digital closed-caption text. A font is a complete assortment of letters, numbers, punctuation marks, etc. in a given design. You can choose from a variety of fonts (*Style 1-7*).

Menu Language Lets you select your preferred language for the menus: *English, Espanol* or *Français*.

Light Sensor If you choose On, this feature is activated.

- When activated, this feature monitors the ambient light conditions in the room and adjusts
 the TV's backlight for optimum viewing. It also serves as an energy saving feature by lowering
 the backlight power level when appropriate (typically in darker room conditions).
- The TV has a multi-colored LED that adjusts based on the backlight power level with "green" representing the highest level of energy savings. Please refer to the table at the left for the various conditions of the backlight power level and LED colors when the light sensor is active.

Note: When TV is On and the light sensor is Off, the LED color will be blue.

Autotuning The Auto Tuning menu was explained in Chapter 3. Go to page 30 for more information.

Time Menu

Enter Time If you didn't set the time reference channel, enter the current time manually. Press OK to start input, press left and right arrow buttons to select the input space, then use up and down arrow buttons to set hours, minutes and AM/PM. Press OK to finish input.

Auto Time Channel Choose a station to have the TV set the time for you. Wait about one minute for the time to be set.

Sleep Timer Use the left and right arrow keys to set the TV to turn off after a given amount of time. **Time Zone** Select the current local time among *Eastern*, *Atlantic*, *Newfoundland*, *Samoa*, *Hawaii*, *Alaska*, *Pacific*, *Central and Mountain*.

Daylight Saving Choose between Off and Automatic modes.



Note: These captioning style options only have an effect on true digital closed captions. Not all captioning on digital channels is digital captioning—it depends on what the broadcaster is sending. If the closed captioning for a program is not digital, the Digital CC style settings will not have an effect

TV mode	Backlight Power Level	LED Color
Standby	Off	Off
On	Full Power Level	Blue
On	Mid Power Level	Cyan
On	Low Power Level	Green
	· · · · · ·	



50 ther Information

Frequently Asked Questions (FAQs)

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

Connect an off-air antenna to the ANTENNA/CABLE Input to view free local digital channels. You might need to purchase an antenna. Go to page 14 for more information.

Visit www.antennaweb.org for 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 which local analog and digital stations are available using a certain antenna.

Are there other ways to view High Definition (HD) video?

Besides using an off-air antenna as mentioned above, you can also use a set-top box to receive digital video. Contact your cable company or satellite provider to purchase digital programming and have them connect the box for you to ensure you're viewing channels the best way.

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

Press the INFO button to display the channel banner. Look at the bottom left corner of the screen. An *A* is displayed for an analog channel. A *D* is displayed for a digital channel.

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

Most digital video is sent in a 16/9 format which does fill your screen, but is sometimes sent in 4/3 which does not fill your screen. It depends on how the station or device connected to your TV is formatting the video. If there are bars on the screen, press the FORMAT button to try a different format that may eliminate the bars. Some bars can't be removed because of the way the format is sent by the broadcaster. The format changes as you press the FORMAT button and the format type is displayed at the bottom of the screen. For more information on screen formats, go to page 35.

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

Some channels enabled by the cable company don't carry programming, such as video on demand. When channels are unavailable, your TV's screen is blank or appears like snow. You probably want to remove these channels from your channel list. Remove these in the Channel List menu. Go to page 38 for more information.

Why does the first channel search take a long time?

If you have both analog and digital channels, the TV is looking for all available channels in the channel list. If you do have digital channels, the TV is also searching for scrambled channels, non-scrambled channels, and each sub-channel of that digital channel.

Troubleshooting

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

TV Problems

TV won't turn on

- Make sure the TV is plugged in.
- · Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- The side panel controls may be locked (disabled). Use the remote control to unlock the side panel controls by selecting the Button Block feature on the Parental Control menu and press OK to uncheck the box.

No picture and no sound but TV is on

- You might be tuned to an input with no device connected to it to view. If you're trying to view a connected device, press INPUT until the picture from that device appears.
- The Signal Type option may be set incorrectly. Go to page 17 for detailed instructions.
- The channel might be blank--change channels.
- If you're watching your VCR and it's connected with coaxial cable to the ANTENNA/CABLE 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 make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

Sound okay, picture poor

- If you're getting a black and white picture from a device you've connected to your TV, you might have your video cables connected to the wrong jacks. A yellow Video cable connects to the yellow VIDEO INPUT jack on the side or back of your TV; three video cables or bundled component video cables (red, blue, and green) connect to the corresponding COMPONENT INPUT jacks on the back of your TV.
- If you're getting no picture from a device you've connected to your TV, you might have your video cable connected to the VIDEO OUTPUT jack on the back of your TV. These jacks are used to connect recording devices. A yellow Video cable connects to the yellow VIDEO INPUT jack on the side or back of your TV.
- Check antenna connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting the sharpness function to improve weak signals. Go to page 36 for more instructions.

No sound, picture okay

- The sound might be muted. Try pressing the volume up button to restore sound.
- If using DVI, or Y, PB, PR, remember to also connect the device's left and right AUDIO OUTPUT jacks to the TV's L and R AUDIO INPUT jacks.
- The sound settings may not be set correctly. Go to page 37 for more information.
- · If your audio source has only one jack or is a (mono) audio source, make sure you have plugged the connection into the Left AUDIO INPUT jack on the TV.

Blank screen

- Check your connections. If you used yellow, red, and white cables to connect, make sure they're connected to the yellow, red, and white VIDEO INPUT jacks on the side or back of the TV, not to the VIDEO OUTPUT jacks on the back of the TV.
- If you're trying to watch something that's playing on a device connected to the TV (like a DVD), press INPUT until you get to the correct video input channel.
- Make sure the device connected to the TV is turned on.
- Try another channel.

Buttons don't work

- The side panel controls may be locked (disabled). Use the remote control to unlock the side panel controls by selecting the *Button Block* feature in the Parental Control menu and press OK to uncheck the box.
- Unplug the TV for ten minutes and then plug it back in. Turn the TV on and try again.

TV turns off unexpectedly

- Sleep timer may have been activated. Go to page 39 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 ten minutes. Plug in again.

Can't select certain channel

- Channel may be blocked or not approved in the Parental Control 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 button on your VCR).
- Press the TV button and then try to change channels.

Noisy stereo reception

May be a weak station. Use the Sound menu and Analog TV Sound to choose mono.

Black box appears on screen

Closed-captioning might be on. Check Closed Caption in the Setup menu. Go to page 42 for more instructions.

Problems with HDMI Connection

- Make sure the HDMI or DVI device is turned on and the cables are firmly connected. If problems still occur, turn off your device. Re-connect your device. Reset the power by unplugging the power cord and plugging it back in.
- If you are tuned to the HDMI INPUT and you're receiving Unusable Signal message onscreen, 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 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. If problems persist, try connecting the Y Pb Pr jacks if they are available or contact the manufacturer of the HDMI or DVI device for further assistance.
- If you have black bars on each side of your picture, the device you connected might have a switch or a
 menu option allowing you to change the picture quality output that will fix this. Choose either 720p or
 1080.
- 480i signals aren't supported by the HDMI INPUT.

Remote Doesn't Work

- Something might be between the remote and the remote light sensor on the front of the TV. Make sure there is a clear path.
- The remote may not be aimed directly at the TV.
- The batteries in the remote may be weak, dead, or installed incorrectly. Put new batteries in the remote. (Note, if you remove the batteries, you may have to reprogram the remote to operate other devices.)

Problems with V-Chip/Parental Controls

Rating limits don't work

You must lock the settings. Go to the Main Menu (press MENU on your remote), select Parental Control, select Lock Parental Control.

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

If you forget your password, you can enter the factory default code: 4116.

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 NR to View Separately in order to view movies with an NR rating.

What Else Can I Do?

If you've been through the Troubleshooting section and nothing has fixed your problem, try rebooting your TV. Note that after a reboot you may need to run your TV through the setup process again. To do a reboot, unplug the power cord from the wall outlet, power strip, etc. Keep your TV unplugged for about 5 minutes. Then plug in the TV, turn on the TV, and see if the problem is fixed. If the problem remains, then please click on the Customer Support Menu at www.rca.com/television for updated FAQs or contact RCA Customer Support at the support number provided in your Warranty under How To Get Service.

V-Chip Rating Explanations

US V-Chip Rating System

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 (Parental 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 make believe 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 ages 2-6. It is not expected to frighten younger children.

Canadian English V-Chip Rating System

18+ (Adult) 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+ (Viewer 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.
- 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.

Canadian French V-Chip Rating System

- 18+ (Adult) Programming is for adults only. This program contains sustained violence or extremely violent scenes.
- 16+ (Viewer 16 and over) Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes.
- 13+ (Viewer 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+ (Viewer 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 (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.

TTE Technology, Inc. ("TTE") Limited Warranty

All LCD Models

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THIS WARRANTY DOES NOT COVER, AND AS DESCRIBED BELOWTTE EXPRESSLY DISCLAIMS, ALL ACTUAL AND IMPLIED WARRANTIES WITH RESPECT TO ANY PRODUCT USED FOR INSTITUTIONAL OR OTHER COMMERCIAL PURPOSES (INCLUDING BUT NOT LIMITED TO RENTAL PURPOSES).

What your warranty covers: Defects in materials or workmanship to the original owner

New LCD Televisions - Screen Sizes 32' and smaller:

For how long after your purchase:

- Ninety (90) days from date of purchase for labor charges. After ninety (90) days, labor charges will be at owner expense.
- One (1) year from date of purchase for parts.

What we will do:

 At TTE's discretion, pay an Authorized RCA Service Center for both labor charges and parts to repair your television, or replace your television with a new or refurbished/remanufactured unit. See "How to qet service"

New LCD Televisions - screen sizes 33' through 47":

For how long after your purchase:

- One (1) year from the date of purchase for labor charges.
- One (1) year from the date of purchase for parts.

What we will do:

 At TTE's discretion, pay an Authorized RCA Service Center for labor charges and parts to repair your television, or replace your television with a new or refurbished/remanufactured unit. See "How to qet service"

All Remanufactured/Refurbished LCD Televisions:

For how long after your purchase:

- Ninety (90) days from date of purchase for labor charges.
- Ninety (90) days from date of purchase for parts.

What we will do:

 At TTE's discretion, pay an Authorized RCA Service Center for both labor charges and parts to repair your television, or replace your television with a refurbished/remanufactured unit. See "How to get service"

How to get service:

- Call 1-800-951-9582. Please have your unit's date of purchase and model/serial number ready. The
 model/serial number information can be found on the back of your unit.
- A representative will troubleshoot your problem over the phone.
- If it is determined that your unit requires service, the service location will be at the sole discretion of TTE based upon the TTE Limited Warranty statement.
- At the sole discretion of TTE, television screen sizes 32" and smaller is either consumer carry-in to an Authorized RCA Service Center or directly exchanged for a new or refurbished/remanufactured unit.
- At the sole discretion of TTE, television screen sizes 33" through 47" is either consumer carry-in to an Authorized RCA Service Center or directly exchanged for a new or refurbished/remanufacture unit.
- Proof of purchase in the form of a bill of sale or receipted invoice from an Authorized Dealer which is
 evidence that the product is within the warranty period must be presented to obtain warranty service.

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.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes (including but not limited to rental purposes).
- A unit purchased or serviced outside the U.S.A.
- Acts of nature, such as but not limited to lightning damage.
- Special, incidental or consequential damages.

Product Registration:

Please complete and mail the Product Registration Card packed with your unit or register on-line at www.rca.com/television. 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. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TTE TECHNOLOGY, INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE OR MODIFY 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 SPECIAL, 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 AND WARRANTY PERIOD SET FORTH ABOVE.

How State Law relates to this 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 or seek warranty coverage 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.

IMPORTANT: Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV. 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. While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, never place drinks or vases with water on top of the TV. This could increase the risk of fire, shock hazard or damage to the TV.



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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 to 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.

Visit the RCA website at www.rca.com/television

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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