## TOSHIBA

# REGZA

## **Owner's Manual**

# Integrated High Definition LCD Television

## 26HL67 32HL67 37HL67 42HL67

For an overview of steps for setting up your new TV, see page 9.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

#### Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

### Dear Customer,

Thank you for purchasing this Toshiba LCD TV. This manual will help you use the many exciting features of your new LCD TV. Before operating your LCD TV, please read this manual completely, and keep it nearby for future reference.

#### **Safety Precautions**

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

#### WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 20 on page 3.

**WARNING**: If you decide to wall mount this television, always use a UL Listed wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL Listed wall bracket appropriate for the size and weight of this television for wall mounting this television could result in serious bodily injury and/or property damage. See "Removing the Pedestal Stand" (1) page 5).

### NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the U.S. NEC, 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. For additional antenna grounding information, see items 27 and 28 on page 4.

## **Child Safety**

## It Makes A Difference Where Your TV Stands



Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:

## The Issue

- □ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

## **Toshiba Cares!**

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.
  - The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

## **Tune Into Safety**

□ One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).

- Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- □ Carefully read and understand the other enclosed instructions for proper use of this product.
- Do not allow children to climb on or play with furniture and TVs.
- Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- □ Share our safety message about this hidden hazard of the home with your family and friends. Thank you!



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CEA is the Sponsor, Producer and Manager of the International CES®

### **Important Safety Instructions**

- 1) Read these instructions.
- Keep these instructions.
   Heed all warnings.



- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.
- 8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades



and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

 Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- 11) Only use attachments/accessories specified by the manufacturer.
- 12) 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.** Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

#### **Additional Safety Precautions**

- 14a) **CAUTION:** If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:
  - ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
  - NEVER allow your body to come in contact with any broken glass or liquid from the damaged television. The LCD panel inside the TV contains glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and consult your doctor.
  - ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

#### 15) **CAUTION:**

- To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
- To prevent electric shock, match wide blade of plug to wide slot; fully insert.

#### 16) WARNING:

To prevent the spread of fire, keep candles or other open flames away from this product at all times.

### Installation, Care, and Service

#### Installation

18)

Follow these recommendations and precautions and heed all warnings when installing your TV:

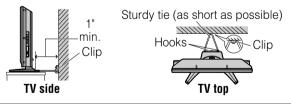
17) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE

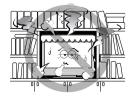


**EQUIPMENT DAMAGE!** Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

- 19) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.
- 20) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy tie from the hooks on the rear of the TV pedestal to a wall, pillar, or other immovable structure. Make sure the tie is tight, secure, and parallel to the floor.



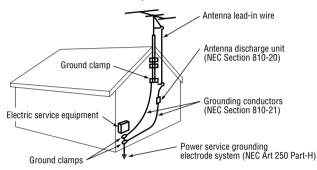
- 21) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 22) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
  - on a bed, sofa, rug, or similar surface;
  - too close to drapes, curtains, or walls; or



 in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 1 (one) inch around the TV. *(continued)* 

- Always place the back of the television at least one (1) 23) inch away from any vertical surface (such as a wall) to allow proper ventilation.
- 24) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.
- Never overload wall outlets and extension cords. 25)
- 26) Always operate this equipment from a 120 VAC. 60 Hz power source only.
- 27) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



#### 28)

#### DANGER: RISK OF SERIOUS **PERSONAL INJURY OR DEATH!**

- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

#### Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

- 29) If you use the TV in a room whose temperature is 32 °F (0 °C) or below, the picture brightness may vary until the LCD warms up. This is not a sign of malfunction.
- 30) Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth only (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid



contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.

31)

#### WARNING: **RISK OF ELECTRIC SHOCK!**

Never spill liquids or push objects of any kind into the TV cabinet slots.

- 32) While it is thundering, do not touch the connecting cables or apparatus.
- 33) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.
- 34) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

35)

#### WARNING: RISK OF SERIOUS PERSONAL **INJURY OR EQUIPMENT** DAMAGE!



Never strike the screen with a sharp or heavy object.

- 36) The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.
  - Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 30 on this page.

#### Service



#### WARNING: **RISK OF ELECTRIC SHOCK!**



Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.

- 38) If you have the TV serviced:
  - · Ask the service technician to use only replacement parts specified by the manufacturer.
  - · Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.
- 39) The cold cathode fluorescent lamp in the LCD panel contains a small amount of mercury.

When the TV reaches the end of its useful life, dispose of the used TV by the approved method for your area, or ask a qualified service technician to properly dispose of the TV.



**Note:** The lamp(s) inside this product contain mercury. Disposal may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronics Industries Alliance (www.eiae.org).

### Choosing a location for your LCD TV

## To Display your LCD TV on the included Pedestal Stand:

Observe the following safety precautions:

- 1) Place the TV on a sturdy, level surface that can support the weight of the TV.
- 2) Be sure to secure the TV to a wall, pillar, surface, or other immovable structure. To secure the TV in this manner, use the included strap located at the rear of pedestal stand. (rs item 20, page 3).

#### To Display your LCD TV using a Wall Bracket:

If you decide to wall mount your LCD TV, always use a ULlisted wall bracket appropriate for the size and weight of the LCD TV (I page 2):

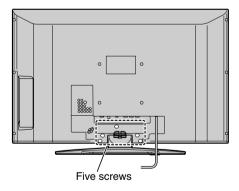
- 1) **CAUTION:** Two people are required for installation.
- 2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
- 3) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
- 4) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV as described below.

#### **Removing the Pedestal Stand**

1) Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

**Note:** Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

- 2) Remove the jack pack cover on the back of the TV to expose the pedestal stand screws. The jack pack cover can be removed without tools.
- 3) Remove the five screws shown in the diagram below. This will allow removal of the pedestal stand.
- 4) Once you have removed all five screws holding the pedestal stand in place, remove the pedestal stand from the TV by sliding the pedestal stand away from the TV.



## *FCC Declaration of Conformity Compliance Statement (Part 15):*

#### The Toshiba 26HL67, 32HL67, 37HL67, and 42HL67

Televisions comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is: Toshiba America Consumer Products, L.L.C. 82 Totowa Rd. Wayne, NJ 07470. Ph: 1-800-631-3811

**Note:** 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 removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

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

**Caution:** Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.

## *Important notes about your LCD TV*

#### The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived issues resulting from these symptoms.

- 1) An afterimage (ghost) may appear on the screen if a fixed, nonmoving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
- 2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

**Note:** Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.

## **Trademark Information**

- WOW, SRS and () symbol are trademarks of SRS Labs, Inc.
   WOW technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

## Contents

Important Safety Instructions
Installation, Care, and Service
Chapter 1: Introduction       8         Welcome to Toshiba       8         Features of your new TV       8
Overview of steps for installing, setting up, and using your new TV       9         TV front and side panel controls and connections       10         TV back panel connections       11
Chapter 2: Connecting your TV
Overview of cable types       12         About the connection illustrations       12         Connecting a VCR and antenna or Cable TV (no Cable box)       13
Connecting a VCR with S-video and a cable box
Connecting a camcorder       16         Connecting an HDMI™ or DVI device to the HDMI       17         input       17         Connecting a digital audio system       18
Connecting an audio system
Chapter 3: Using the remote control
Installing the remote control batteries20Remote control effective range.20Learning about the remote control21Using the remote control to control your other devices22Remote Control functional key chart23Programming the remote control to control your other devices24
Remote control codes
Chapter 4: Menu layout and navigation       .27         Main menu layout       .27         Setup/Installation menu layout       .28         Navigating the menu system       .28
Chapter 5: Setting up your TV
Programming channels into the TV's channel memory 30 Programming channels automatically
Labeling channels31Setting the HDMI <sup>™</sup> audio mode32Viewing the digital signal meter33Viewing the system status33Selecting the Power-On Mode34
Chapter 6: Using the TV's features
Selecting the video input source to view       35         Labeling the video input sources       35         Tuning channels       36         Tuning channels using the Channel Browser <sup>™</sup> 36         Tuning to the next programmed channel       38         Tuning to a specific channel (programmed or unprogrammed)       38         Switching between two channels using Channel Return       38
Switching between two channels using SurfLock <sup>™</sup> 38 Selecting the picture size

Scrolling the TheaterWide® picture
(TheaterWide 2 and 3 only)
Using the auto aspect ratio feature
Selecting the cinema mode (480i and 1080i signals) 41
Adjusting the picture
Selecting the picture mode
Adjusting the picture quality
Using the closed caption mode
Base closed captions
Digital CC Settings
CC Selector
Adjusting the audio
Muting the sound
Using the digital audio selector
Selecting stereo/SAP broadcasts
Adjusting the audio quality
Using the StableSound <sup>®</sup> feature
Selecting the optical audio output format
Using the Dolby <sup>®</sup> Digital Dynamic Range
Control feature
Using the Locks menu
Entering the PIN code
If you cannot remember your PIN code
Changing your PIN code
Blocking TV programs and movies by rating
(V-Chip)
Downloading an additional rating system for blocking
TV programs and movies
Blocking channels
Unlocking programs temporarily
Using the input lock feature
Using the control panel lock feature
Using the PC settings feature
Setting the PC Audio
Setting the sleep timer
Displaying TV status information
Understanding the auto power off feature
Understanding the last mode memory feature
Chapter 7: Using the TV's advanced features54
Using the advanced picture settings features
Using dynamic contrast 54
Using the static gamma feature
Selecting the color temperature
Using CableClear <sup>®</sup> digital noise reduction
Using MPEG noise reduction
Using the Game Mode feature
Using the advanced audio settings features
Using the SRS WOW <sup>™</sup> surround sound feature 57
Chapter 8: Troubleshooting
General troubleshooting
LED indications
Chapter 9: Appendix
Specifications
Limited United States Warranty
for LCD Televisions 26" and Larger

## **Chapter 1: Introduction**

## Welcome to Toshiba

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

## Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, LCD TV:

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- Three HDMI<sup>™</sup> digital, high-definition multimedia interfaces 1080p input support (rs page 17).
- Two sets of ColorStream<sup>®</sup> HD high-resolution component video inputs (ISP page 15).
- SRS WOW<sup>™</sup> audio technologies (🖙 page 57).
- Digital Audio Out optical audio connection with Dolby<sup>®</sup> Digital optical output format (resp page 46).
- **CableClear**<sup>®</sup> digital picture noise reduction (**t** gage 55).
- PC IN (Analog RGB) computer terminal (ISP page 19).
- Channel Labeling allows you to put the Call Letters (e.g. ABC, HBO, etc.) on the screen along with the station numbers, so you always know what you're watching (ISP page 31).

## Overview of steps for installing, setting up, and using your new TV

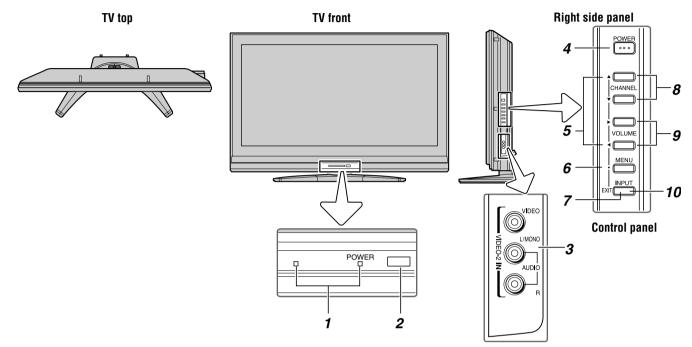
Follow these steps to set up your TV and begin using its many exciting features.

- 1 Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.
- **2** Observe the following when choosing a location for the TV:
  - Read "Important notes about your LCD TV" (IS page 6).
  - Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure (ISP page 3).
  - Place the TV in a location where light does not reflect on the screen.
  - Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.
- **3** Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.
- 4 BEFORE connecting cables or devices to the TV, learn the functions of the TV's connections and controls (ISS pages 10–11).
- Connect your other electronic device(s) to the TV (ISF pages 12–19).
- **6** Install the batteries in the remote control ( $\mathbf{r}$  page 20).
- 7 See "Learning about the remote control" (r page 21) for an overview of the buttons on the remote control.
- **8** Program the remote control to operate your other device(s) (resp pages 22–26).
- **9** AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. The yellow LED will blink until the TV goes into standby mode. When the TV is in standby mode, press **POWER** on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, press and hold the **POWER** button for 5 seconds to reset the TV.

- **10** See "Menu layout and navigation" for a quick overview of navigating the TV's menu system (ISP page 27).
- **11** Program channels into the TV's channel memory (I page 30).
- **12** For details on using the TV's features, see Chapters 6 and 7.
- **13** For help, refer to the Troubleshooting Guide, Chapter 8.
- **14** For technical specifications and warranty information, see Chapter 9.
- 15 Enjoy your new TV!

## TV front and side panel controls and connections

Model 42HL67 is used in this manual for illustration purposes.



#### 1 Green and Yellow LEDs

Green = Power indicator

Yellow = Power-On Mode indicator (IS "Selecting the Power-On Mode" on page 34)

See "LED indications" on page 60 for additional information.

- 2 Remote sensor Point the remote control toward this remote sensor (representation of the remote control effective range" on page 20).
- 3 VIDEO-2 IN The side panel A/V connections are referred to as "VIDEO 2" and include standard A/V connections.
- **4 POWER** Press to turn the TV on and off.

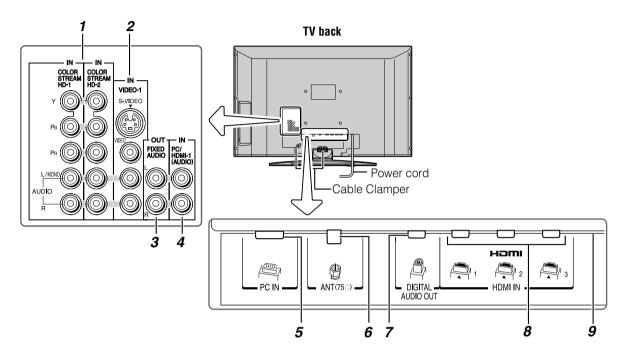
If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the **POWER** button on the TV control panel for 5 or more seconds to reset the TV.

- 5 ARROWS ▲▼◀▶ When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.
- 6 MENU (ENTER) Press to access the menu system (INF pages 27–28). When a menu is on-screen, the MENU button on the TV's control panel functions as the ENTER button.
- **7 EXIT** Press to instantly close an on-screen menu.

- 8 CHANNEL ▲▼ When no menu is on-screen, these buttons change the channel (programmed channels only;
   IST page 30).
- **9 VOLUME**  $\triangleleft$  **b** These buttons adjust the volume level.
- 10 INPUT Repeatedly press to change the source you are viewing (ANT, VIDEO 1, VIDEO 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, PC).

## **TV** back panel connections

For an explanation of cable types and connections, see pages 12–19.



1 ColorStream<sup>®</sup> HD-1 and ColorStream<sup>®</sup> HD-2 — Two sets of ColorStream<sup>®</sup> high-definition component video inputs (with standard stereo audio inputs) for connecting devices with component video output, such as a Toshiba DVD player with ColorStream<sup>®</sup>.

**Note:** Component video cables carry only video information; separate audio cables are required for a complete connection.

2 VIDEO-1 IN — Standard (composite) video and standard audio inputs plus optional S-video inputs for connecting devices with composite video or S-video output.

**Note:** Standard (composite) video and S-video cables carry only video information; separate audio cables are required for a complete connection.

- **3** Fixed Audio OUT Analog audio outputs for connecting an audio amplifier.
- 4 PC/HDMI-1 (AUDIO) IN PC audio input terminals are shared with HDMI-1 analog audio input terminals, and their use can be configured in the Audio Setup menu (rs page 52).
- **5 PC IN** For use when connecting a personal computer.
- 6 ANT Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.

- 7 Digital Audio OUT Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, A/V receiver, or home theater system with optical audio input.
- 8 HDMI<sup>™</sup> IN High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 4.

#### 9 Service port

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

## Chapter 2: Connecting your TV

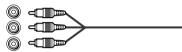
### **Overview of cable types**

#### Coaxial (F-type) cable

#### 

Coaxial (F-type) cable is used for connecting your antenna, cable TV service, and/or cable converter box to the **ANT** input on your TV.

#### Standard A/V cables (red/white/yellow)



Standard A/V cables (composite video) usually come in sets of three, and are for use with video devices with analog audio and composite video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.

#### S-video cable

#### © - ------

S-video cable is for use with video devices with S-video output. Separate audio cables are required for a complete connection.

**Note:** An S-video cable provides better picture performance than a composite video cable. If you connect an S-video cable, be sure to disconnect the standard (composite) video cable or the picture performance will be unacceptable.

#### Component video cables (red/green/blue)



Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream<sup>®</sup> is Toshiba's brand of component video.) These cables are typically color-coded red, green, and blue. Separate audio cables are required for a complete connection.

**Note:** Component video cables provide better picture performance than a standard (composite) video or S-video cable.

#### HDMI<sup>™</sup> cable



HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (Instruction page 17 and page 19).

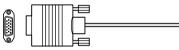
**Note:** HDMI cable provides better picture performance than a standard (composite) video or S-video cable.

#### **Optical audio cable**



Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV's **DIGITAL AUDIO OUT** terminal (ISP page 18).

#### Analog RGB (15-pin) computer cable

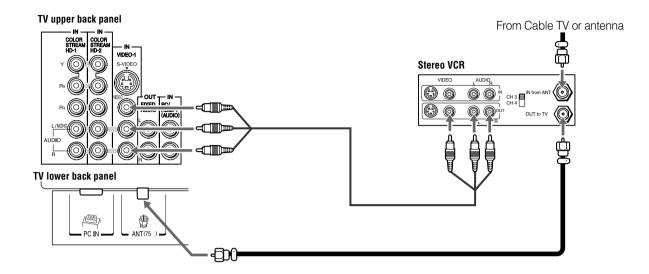


Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (**I** page 19).

### About the connection illustrations

You can connect different types and brands of devices to your TV in several different configurations. The connection illustrations in this manual are representative of typical device connections only. The input/output terminals on your devices may differ from those illustrated herein. For details on connecting and using your specific devices, refer to each device's owner's manual.

## Connecting a VCR and antenna or Cable TV (no Cable box)



#### You will need:

- coaxial cables
- standard A/V cables
  - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to VIDEO 1 at the same time or the picture performance will be unacceptable.
  - If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.

#### To view the antenna or Cable signal:

Select the ANT video input source on the TV.\*

#### To view the VCR:

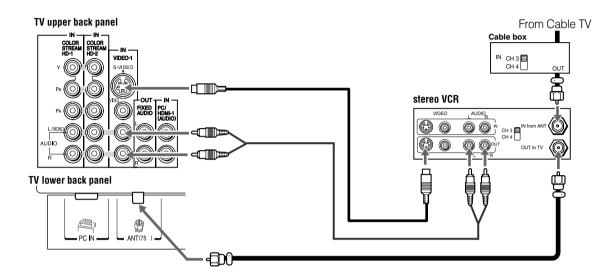
Turn ON the VCR. Select the **VIDEO 1** video input source on the TV.\*

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

<sup>\*</sup> To select the video input source, press INPUT on the remote control (see page 21). To program the TV remote control to operate other devices, see Chapter 3.

## **Connecting a VCR with S-video and a cable box**

An S-video connection will provide better picture performance than a standard (composite) video cable.



#### You will need:

- coaxial cables
- S-video cable
  - Do not connect both types of video cable to VIDEO 1 at the same time or the picture performance will be unacceptable.
- standard audio cables
  - If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.

**Note:** When you use a Cable box, you may not be able to use the remote control to program or access certain features on the TV.

#### To view basic and premium Cable channels:

Turn OFF the VCR. Select the **ANT** video input source on the TV.\* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

#### To view the VCR:

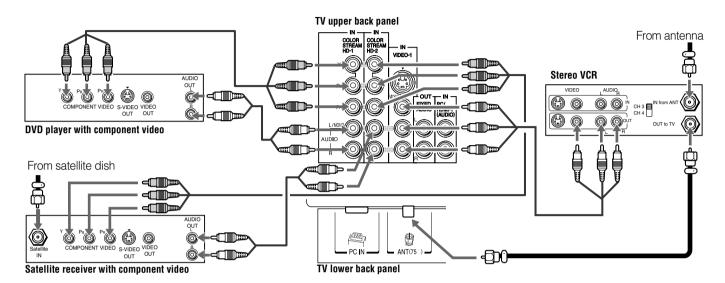
Turn ON the VCR. Select the **VIDEO 1** video input source on the TV.\*

\* To select the video input source, press INPUT on the remote control (reg page 21). To program the TV remote control to operate other devices, see Chapter 3.

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## Connecting a DVD player with ColorStream® (component video), a VCR, and a satellite receiver

Your TV has two sets of ColorStream® (component video) inputs.



#### You will need:

- coaxial cables
- standard A/V cables
  - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to VIDEO 1 at the same time or the picture performance will be unacceptable.
  - If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.
- standard audio cables
- · component video cables
  - You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to either set of ColorStream terminals on the TV (HD-1 or HD-2). The ColorStream HD-1 and HD-2 terminals can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance.
  - If your DVD player or satellite receiver does not have component video, connect a standard A/V cable to VIDEO 2 on the side panel. If your DVD player has HDMI video, see page 17.

#### To view antenna or Cable channels:

Select the ANT video input source on the TV.\*

#### To view the DVD player:

Turn ON the DVD player. Select the **ColorStream HD-1** video input source on the TV.\*

## To view satellite programs using the component video connections:

Turn on the satellite receiver. Select the **ColorStream HD-2** video input source on the TV.\*

## To view the VCR or view and record antenna channels:

Turn ON the VCR. Tune the VCR to the channel you want to watch. Select the **VIDEO 1** video input source on the TV.\*

#### To record a TV program while watching a DVD:

Turn ON the VCR. Tune the VCR to the channel to record. Select the **ColorStream HD-1** video input source on the TV\* to view the DVD.

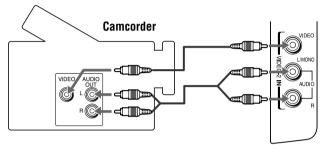
To select the video input source, press INPUT on the remote control (respage 21). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## **Connecting a camcorder**

#### You will need:

- standard A/V cables
  - For better picture performance, if your camcorder has S-video, connect an S-video cable (plus the audio cables) to **VIDEO 1** on the TV back instead of the **VIDEO 2** on the TV right side panel.



VIDEO 2 inputs on TV right side panel

#### To view the camcorder video:

Select the VIDEO 2 video input source on the TV.\*

 To select the video input source, press INPUT on the remote control (provided program the TV remote control to operate other devices, see Chapter 3.

## Connecting an HDMI<sup>™</sup> or DVI device to the HDMI input

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-861B–compliant<sup>[1]</sup> consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

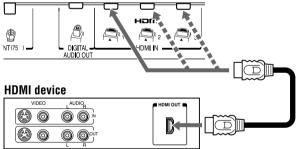
The HDMI input is designed for best performance with 1080i signals but will also accept and display 480i, 480p, 720p, and 1080p signals.

Note: To connect a PC to the HDMI input, see page 19.

#### To connect an HDMI device, you will need:

- one HDMI cable (type A connector) per HDMI device
  - For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI<sup>™</sup>). You should use an HDMI cable shorter than 16.4 ft (5m) for 1080p input signals.
  - HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).
  - See "Setting the HDMI<sup>™</sup> audio mode" (Is page 32).

#### TV lower back panel



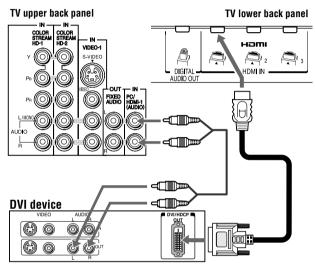
#### To view the HDMI device video:

Select the HDMI 1, HDMI 2, or HDMI 3 video input source on the TV.\*

**Note:** If the audio output mode of the HDMI device is other than the L-PCM mode, the TV speakers will not output sound.

#### To connect a DVI device, you will need:

- one HDMI-to-DVI adapter cable (HDMI type A connector) per DVI device
  - For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).
- · one pair of standard analog audio cables per DVI device
  - An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).
  - See "Setting the HDMI™ audio mode" (Is page 32).



**Note:** To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.
- [1] EIA/CEA-861-861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of highdefinition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

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

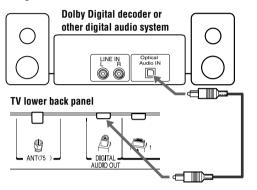
<sup>\*</sup> To select the video input source, press **INPUT** on the remote control (INST page 21). To program the TV remote control to operate other devices, see Chapter 3.

## Connecting a digital audio system

The TV's **DIGITAL AUDIO OUT** terminal outputs a Dolby®\* Digital DIGITAL OUT (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

#### You will need:

• optical audio cable (Use an optical audio cable that has the larger "TosLink" connector and not the smaller "mini-optical" connector.)



#### To control the audio:

- **1** Turn on the TV and the digital audio device.
- 2 Press O on the TV's remote control and open the Audio menu.
- **3** Highlight Audio Setup and press Im.



4 In the Optical Output Format field, select either Dolby Digital or PCM, depending on your device (ISF "Selecting the optical audio output format" on page 46).

udio Setup	
PC Audio	No
HDMI 1 Audio	Auto
MTS	Stereo
Language	English
<b>Optical Output Format</b>	◄ Dolby Digital ►
Dolby Digital Dynamic Range Control	Compressed
Reset	Done
	HDMI 1 Audio MTS Language <b>Optical Output Format</b> Dolby Digital Dynamic Range Control

#### Note:

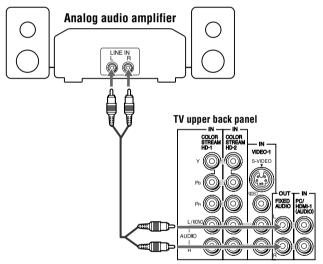
- Some audio systems may not be compatible with Dolby Digital bitstream signals. Older audio systems that are not compatible with standard optical out signals may not work properly, creating a high noise level that may damage speakers or headphones. THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.
- The **DIGITAL AUDIO OUT** terminal may not output some digital audio sources because of copy restrictions.
- Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are registered trademarks of Dolby Laboratories.

## **Connecting an audio system**

This connection allows you to use external speakers with an external analog audio amplifier to adjust the sound level.

#### You will need:

standard audio cables



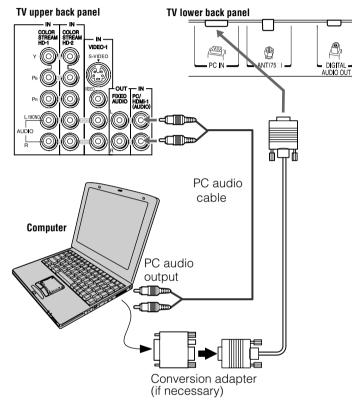
#### To control the audio:

- **1** Turn on the TV and the stereo amplifier.
- **2** Minimize the sound volume from the TV's built-in speakers and control the volume level using the amplifier's remote control.

## Connecting a personal computer (PC)

#### To connect a PC to the PC IN terminal on the TV:

When connecting a PC to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.



• To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The following signals can be displayed:

Format	Resolution	V. Frequency
VGA	$640 \times 480$	60Hz
SVGA	$800 \times 600$	60Hz
XGA	$1024 \times 768$	60Hz

Other formats or non-standard signals will not be displayed correctly.

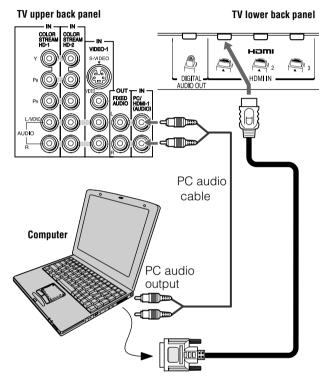
• To display the optimum picture, use the PC setting feature (ISP "Using the PC settings feature" on page 51).

#### Note:

- The PC audio input terminals on the TV are shared with the HDMI-1 analog audio input terminals (w page 52).
- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a DOS/V compatible mini D-sub15-pin terminal.

 Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.

**To connect a PC to the HDMI terminal on the TV:** When connecting a PC to the HDMI terminal on the TV, use an HDMI-to DVI adapter cable and analog audio cables. If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (1) page 17).



• The following signal formats can be displayed:

	0 0	1.
Format	Resolution	V. Frequency
VGA	$640 \times 480$	59.94/60Hz
480i	$720 \times 480$	59.94/60Hz
480p	$720 \times 480$	59.94/60Hz
720p	$1280 \times 720$	59.94/60Hz
1080i	$1920 \times 1080$	59.94/60Hz
1080p	$1920 \times 1080$	59.94/60Hz

#### Note:

- The edges of the images may be hidden.
- If receiving a 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).

## Preparing the remote control for use

Your TV remote control can operate your TV and many other devices such as cable converter boxes, satellite receivers, VCRs, DVD players, and HTIBs (home theater in a box), even if they are different brands.

#### If you have a Toshiba device:

Your TV remote control is preprogrammed to operate most Toshiba devices (I a page 24).

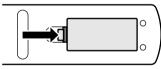
#### If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:

You can program the TV remote control so it will operate the other device ( $\mathbf{r}_{\mathcal{T}}$  pages 22–26).

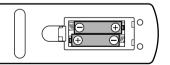
## Installing the remote control batteries

**1** Remove the battery cover from the back of the remote control.

Squeeze tab and lift cover.



2 Install two "AAA" size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.



**3** Reinsert the battery cover in the remote control until the tab snaps.

Caution: Never throw batteries into a fire.

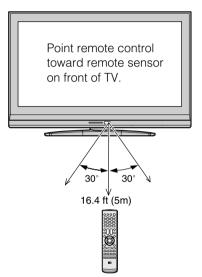
#### Note:

- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.

• Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

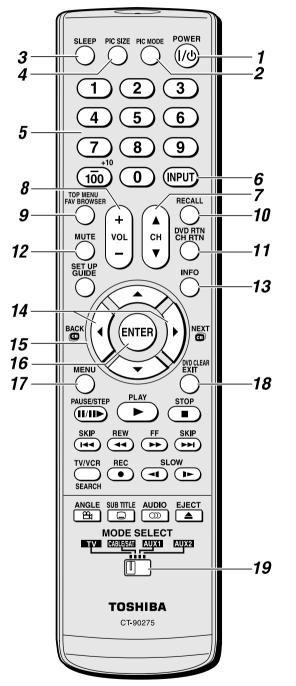
## **Remote control effective range**

For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.



## Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see the remote control functional key chart (1) page 23).



**Note:** The error message "Not Available" may appear if you press a key for a function that is not available.

- **1 POWER** turns the TV on and off. When the TV is on, the green LED indicator on the TV front will be illuminated.
- **2 PIC MODE** selects the picture mode (reg page 42).
- **3** SLEEP accesses the sleep timer (reg page 52).
- 4 PIC SIZE cycles through the picture sizes: Natural, TheaterWide 1/2/3, Full, 4:3 HD, and Native (rspage 39).
- 5 Channel Numbers (0-9, -/100) directly tune channels. The m button is used to tune digital channels (r page 38) or to edit the Favorites List (r page 36).
- 6 INPUT selects the video input source (1) page 35).
- 7 CH ▲▼ cycles through programmed channels when no menu is on-screen (r page 30).
- **8** VOL + adjusts the volume level.
- **9 FAV BROWSER** accesses the Favorites List in the Channel Brower<sup>™</sup> (**I** S page 36).
- 10 RECALL displays TV status information (1) page 53).
- 11 CH RTN returns to the last viewed channel (r page 38).
- **12 MUTE** reduces or turns off the sound (**D** page 44).
- **13** INFO displays TV status information (I page 53).
- 14 and the previous/next channel browser<sup>™</sup> and tune to the previous/next channel in the channel history (r page 37). (Also see "Arrow buttons.")
- **16 ENTER** activates highlighted items in the main menu system.
- **17 MENU** accesses the main TV menu system (respages 27 and 28).
- 18 EXIT closes on-screen menus.
- **19 MODE SELECT switch** switches between TV, CABLE/SAT, AUX 1, and AUX 2 modes (ISF page 22). Set to "TV" to control the TV.

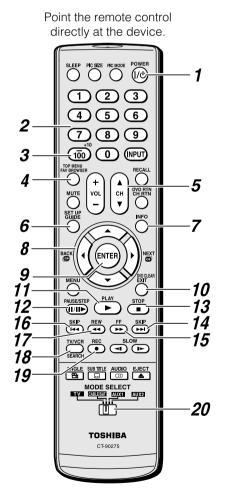
## Using the remote control to control your other devices

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (r pages 24–26).

#### To use your TV remote control to operate a:

- Cable converter box or satellite receiver, set the **MODE SELECT switch** to **CABLE/SAT**.
- VCR, set the MODE SELECT switch to AUX 1.
- DVD player or HTIB, set the **MODE SELECT switch** to **AUX 2**.

**Note:** Even after the TV remote control is programmed, it may not operate certain features on any other devices. If this happens and you wish to use those features, you will need to use the device's original remote control.



- **1 POWER** Turns the selected device on and off.
- 2 Channel Numbers (0-9) Press to directly access channels (as opposed to (c) (c)).
- **3** +10 Press to directly access DVD chapters higher than 10.
- 4 **TOP MENU** Accesses a DVD's top menu.
- 5 CH ▲▼ For channels programmed into the channel memory (r page 38):
  ▲ selects the next higher channel.
  - $\mathbf{\nabla}$  selects the next lower channel.
- GUIDE Displays the channel guide in the CABLE/SAT mode.
   SET UP Accesses a DVD's setup menu in the AUX mode.
- 7 INFO Displays TV status information on-screen.
- 8 ▲▼◀▶ Press to navigate DVD menus (may not work on some DVD players).
- **9 ENTER** Required by some satellite receivers and DVD players to activate certain functions.
- 10 DVD CLEAR Press to reset the title and chapter number.
- 11 PLAY Begins playback of a tape or DVD.
- **12 PAUSE** Press during play or record mode to pause the picture; press again to restart.
- **13 STOP** Stops the tape or DVD.
- **14** SKIP ► Skips forward to locate later DVD chapters.
- **15 FF** Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)
- **16 SKIP I** ← Skips back to beginning of current DVD chapter, or locates previous chapters.
- **17 REW** Rewinds/reverses the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)
- **18 TV/VCR** To view one program while recording another, press to select TV mode.

**SEARCH** selects a specific DVD chapter, title or time.

- 19 REC Starts tape recording.
- **20 MODE SELECT switch** Set to "TV" to control the TV; "CABLE/SAT" to control a cable converter box or satellite receiver; "AUX 1" to control a VCR; "AUX 2" to control a DVD player or HTIB.

## **Remote Control functional key chart**

#### Note:

- "---" = key does not send a signal in that remote control mode.
- "←TV" = key will affect the TV, even though the remote control is in another mode.
- \* Not available for your TV.

REMOTE CONTROL KEY	Toshiba TV	CABLE	SAT (satellite)	AUX 1 (VCR)	AUX 2 (DVD or HTIB)
POWER	Power	Power	Power	Power	Power
SLEEP	Sleep timer	← TV	← TV	← TV	← TV
PIC SIZE	Picture size	← TV	← TV	← TV	← TV
PIC MODE	PIC MODE	← TV	← TV	← TV	← TV
1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
100/-/+10	– (sub CH)		- (sub CH)	100	+10
INPUT	TV/Video select	← TV	← TV	← TV	← TV
FAV BROWSER/ TOP MENU	FAV BROWSER DVD TOP Menu*				Top Menu
MUTE	Sound mute	← TV	← TV	← TV	← TV
SET UP/GUIDE	Guide*		SAT Guide		Setup
VOL + -	Volume up/down	← TV	← TV	← TV	← TV
СН▲▼	Channel up/down	Channel up/down	Channel up/down	Channel up/down	
RECALL	RECALL	← TV	← TV	← TV	← TV
CH RTN/DVD RTN	Previous channel DVD previous menu*				DVD Return
INFO	Info		Info		Display
ENTER	Enter		Select, Enter		Enter
▲▼	Menu up/down		Menu up/down		Menu up/down
A C	Menu left/ Channel Browser <sup>™</sup>		Menu left		Menu left
NEXT (B)	Menu right/ Channel Browser <sup>™</sup>		Menu right		Menu right
MENU	Menu		Action Menu		DVD Menu
EXIT/DVD CLEAR	Exit DVD clear*		Exit		DVD Clear
PAUSE/STEP	Pause*			Pause	Pause
PLAY	Play*			Play	Play
STOP	Stop*			Stop	Stop
SKIP 🛤	Skip REV*				Skip REV
SKIP 🍽	Skip FWD*				Skip FWD
REW	Rewind*			Rewind	Rewind
FF	Fast FWD*			Fast FWD	Fast FWD
TV/VCR/ SEARCH	DVD search*			TV/VCR	DVD search
REC	REC MENU*			Record (2 click)	
SLOW –	SLOW REW*				
SLOW +	SLOW FWD*				
ANGLE	Angle*				DVD Angle
SUB TITLE	Sub title*				DVD Sub title
AUDIO	Audio*				DVD Audio
EJECT	Eject*				DVD Eject

## Programming the remote control to control your other devices

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device (or a Toshiba device that it is not preprogrammed to operate), follow the steps below. For details on using the remote control to operate the device, see page 22.

- 1 In the remote control code table (1) page 25), find the code for your device. If more than one code is listed, try each one separately until you find one that works.
- 2 Set the **MODE SELECT switch** to the type of device you are programming the remote control to operate — CABLE/SAT (for a cable converter box or satellite receiver), AUX 1 (for a VCR or TV/VCR combo), or AUX 2 (for a DVD player or HTIB [home theater in a box]).
- **3** While holding down  $\overset{\text{RECALL}}{\bigcirc}$ , press the Channel Number buttons to enter the 3-digit code for your device.
- 4 To test the code, turn on the device, point the remote control at it, and press **POWER**. See notes below.
  - If the correct code was entered, the device will turn off.
  - If the device does not respond, repeat steps 1–4 using another code.
  - If the device does not respond to another code, you will need to use the remote control that came with the device.
- **5** Remember to set the **MODE SELECT switch** back to "TV" to control the TV.
- **6** For future reference, write down the code(s) you used:

DEVICE	CODE	DEVICE	CODE

#### Note:

- In addition to POWER, confirm that all necessary keys on the TV remote control operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.
- Every time you change the batteries, you will need to reprogram the remote control.
- Some newer VCRs respond to either of two codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position ("VCR1" or "VCR2") and reprogram the remote control.

#### Chapter 3: Using the remote control

020, 040, 044, 046,

## **Remote control c**

In some cases you may not be operate your device with the remote control. Your other de use a code that is not recogniz TV remote control. If this hap the device's remote control.

#### **Cable converter box**

ABC

Archer Cableview Century Citizen Contec Diamond GE Gemini Hamlin Hitachi Jasco Motorola/GI/Jerrold Magnavox Memorex Multi Canal Novavision Panasonic Philco Philips Pioneer Proscan Radio Shack RCA Realistic Recoton Samsung Scientific Atlanta

Sears Signature Signature 2000 Sprucer Starcom Stargate Sylvania TeleView Texscan Tocom U.S. Electronics United Cable

097 062,069 086, 089 072,096 092, 104 090 101 081,083 087 066, 067 072.073 092 076,077 061,062 092,097 064,081 065 102 077, 090 063.078 088,098 095 062 096 081, 085 069,082 103, 104 069,090 095,100 090 100 071,084 087,096 082 065,092 102, 103

## Satellite receiver

DISH Network

Universal

Wards

Alphastar	038,
Chaparral	034

057

059

BÔSE

Broksonic

trol codes	
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069, 082, 087, 096, 103, 104	1
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065, 092, 097, 099, 102, 103	2
096	

Drake Echostar Express Vu Fujitsu GE General Instruments Hitachi Hughes Hughes Network Systems Intersat Janeil JVC Kenwood Magnavox Optimus Pansat Primestar Proscan Radio Shack RCA Realistic Samsung Sony Star Choice Star Trak STS Toshiba Uniden Zenith TV/VCR Combo Action GE Goldstar Panasonic Precision Ouasar Realistic Sony Toshiba Zenith Totevision **DVD/VCR** Combo Go Video JVC RCA Samsung Sanyo Zenith **DVD** player Aiwa Apex

050.053 018, 041, 051 057 027 008,009,013 010, 011, 012, 022. 023, 031, 049 033 033 019 048 027 017,057 029 060 058 036, 052 015.042 008,009,013 022, 023, 030 008, 009, 013, 016 030 059 014,055 057, 106 025, 026, 037, 054 024 000, 001, 002, 003, 004, 005, 006, 007. 020, 031, 056 021, 028, 030, 032, 035, 039, 043, 045, 047,058 027 078 059.062 065 065 078 065 079 074 057 065 009, 010, 065 DVD=087, VCR=081 DVD=088, VCR=082 DVD=089. VCR=083 DVD=090, VCR=084 DVD=091. VCR=085 DVD=092, VCR=086 006,015 016, 017 097 018

Clarion Classic Daewoo Denon Emerson Fisher Funai GE Go Video GPX Hitachi JVC Kenwood Konka Magnavox Memorex Mintek NAD Nakamichi Norcent Onkyo Oritron Panasonic Philips Pioneer Proscan Qwestar RCA Sampo Samsung Sansui Sanyo Sharp Sherwood Sony Sylvania Teac Technics Techwood Toshiba Yamaha Zenith

019 020 021 022, 023, 024, 025 026,027 028 027 001, 029, 030 087 031 005, 032, 033, 034, 035 003, 007, 036, 042, 088 037 008,009 004,038 039 040 026 041 043 044 058 010, 045, 046, 047, 048,049,050 004,051 052, 053, 054, 055 001,056 057,058 001, 002, 059, 089 060 061, 062, 086, 090 073 063,091 064,067 074 011, 012, 065, 066, 068,069,070 027 071 072 075 000, 013, 076, 077, 078 079, 080, 081 014, 082, 092

#### **Portable DVD player**

Aiwa Audiovox Panasonic RCA

093 094,095

#### VCR

Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen

Colortyme

024, 096, 099 098 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007,068 008,017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057,073 005 (continued)

#### Chapter 3: Using the remote control

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Craig	009, 010,
-	065, 079
Curtis Mathes	001, 005,
	014, 040,
	056, 057
Daewoo	011, 013,
	018, 019,
Daytron	078
Denon	063
Dimensia	001, 048
Electrohome	010, 020,
Emerson	003, 008,
	017, 018,
	039, 054,
	065, 068,
Fisher	007, 016,
	023, 057,
	070, 071,
Fuji	004, 041
Funai	018, 073
Garrard	018
GE	001, 002,
	042, 048,
Go Video	056, 059,
Goldstar	005, 010,
	056, 065,
Gradiente	018, 065
Harman Kardon	005
Hitachi	024, 025,
	042, 063,
JBL	076
JC Penney	005, 006,
	009, 010,
	025, 026,
	061, 063,
Jensen	024, 025,
JVC	005,006,
	037, 043,
Vanwood	063, 068,
Kenwood	005,006,
	014, 037, 053, 068,
Kodak	035, 008, 010
LG	010
Lloyds	053, 073,
Logik	055, 075, 061
LXI Magnasonic	010
Magnasonic	010 061, 065,
	010 061, 065, 026, 027,
Magnasonic Magnavox	010 061, 065, 026, 027, 057, 061,
Magnasonic	010 061, 065, 026, 027, 057, 061, 005, 006,
Magnasonic Magnavox Marantz	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026,
Magnasonic Magnavox	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009,
Magnasonic Magnavox Marantz	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034,
Magnasonic Magnavox Marantz	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066,
Magnasonic Magnavox Marantz Memorex	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079
Magnasonic Magnavox Marantz Memorex MGA	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079 020, 028,
Magnasonic Magnavox Marantz Memorex	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079 020, 028, 056
Magnasonic Magnavox Marantz Memorex MGA MGN	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079 020, 028, 056 024, 025,
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079 020, 028, 056 024, 025, 020, 024,
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079 020, 028, 056 024, 025,
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi	010 061, 065, 026, 027, 057, 061, 005, 006, 014, 026, 007, 009, 018, 034, 065, 066, 079 020, 028, 056 024, 025, 020, 024, 039, 043,
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 049\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 009, 046,\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 009, 046,\\ 009, 012,\\ 005, 006,\\ 014, 037,\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 009, 046,\\ 009, 012,\\ 005, 006,\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 009, 046,\\ 009, 012,\\ 005, 006,\\ 014, 037,\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 009, 046,\\ 009, 012,\\ 005, 006,\\ 014, 037,\\ 054, 067,\\ 010\\ 009\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 049\\ 009, 046,\\ 009, 012,\\ 005, 006,\\ 014, 037,\\ 054, 067,\\ 010\\ 009\\ 010, 049,\\ \end{array}$
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC	$\begin{array}{c} 010\\ 061, 065,\\ 026, 027,\\ 057, 061,\\ 005, 006,\\ 014, 026,\\ 007, 009,\\ 018, 034,\\ 065, 066,\\ 079\\ 020, 028,\\ 056\\ 024, 025,\\ 020, 024,\\ 039, 043,\\ 049\\ 009, 046,\\ 009, 012,\\ 005, 006,\\ 014, 037,\\ 054, 067,\\ 010\\ 009\\ \end{array}$

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Pentex Research	014
Philco	026, 0
Philips	026, 0
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Pioneer	006, 0
Portland	012, 0
Proscan	001, 0
Proton	061
Quasar	045
Radio Shack	010, 0
Radio Shack/Realistic	007, 0
	018,0
	031,0
Radix	010
RCA	001, 0
KCA	001,0
	040, 0
	055,0
	083
Realistic	007,0
	016, 0
	022, 0
	056,0
	079
Ricoh	047
Runco	034
	009, 0
Samsung	
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Sansui	006, 0
Sanyo	007,0
	064,0
	079,0
Scott	008, 0
	030, 0
Sears	007,0
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Shintom	013, 0 051, 0 004, 0
Shintom Signature	013, 0 051, 0 004, 0 049
Shintom Signature Signature 2000	013, 0 051, 0 004, 0 049 075
Shintom Signature Signature 2000 Singer	013, 0 051, 0 004, 0 049 075 047, 0
Shintom Signature Signature 2000	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\end{array}$
Shintom Signature Signature 2000 Singer	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\end{array}$
Shintom Signature Signature 2000 Singer Sony	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\end{array}$
Shintom Signature Signature 2000 Singer Sony STS	013, 0 051, 0 004, 0 049 075 047, 0 004, 0 052, 0 076, 0 035
Shintom Signature Signature 2000 Singer Sony	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\end{array}$
Shintom Signature Signature 2000 Singer Sony STS	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\end{array}$
Shintom Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 007\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ \end{array}$
Shintom Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 075\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 036\\ 010, 0\end{array}$
Shintom Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 075\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 036\\ 010, 0\\ 000, 0\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika	$\begin{array}{c} 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 076, 0\\ 035\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 000\\ 036\\ 010, 0\\ 000, 0\\ 024, 0\\ \end{array}$
Shintom Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba	$\begin{array}{c} 013, 0\\ 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 076, 0\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 057, 0\\ 000, 0\\ 057, 0\\ 0057, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 000, 0\\ 057, 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba	$\begin{array}{c} 013, 0\\ 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 007\\ 010\\ 007\\ 009\\ 0\\ 009, 0\\ 009, 0\\ 009, 0\\ 009, 0\\ 009, 0\\ 009, 0\\ 000, 0\\ 009, 0\\ 009, 0\\ 000, 0\\ 009, 0\\ 000, 0\\ 009, 0\\ 000, 0\\ 009, 0\\ 000, 0\\ 009, 0\\ 000, 0\\ 009, 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 000, 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba Totevision Unitec	$\begin{array}{c} 013, 0\\ 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 057, 0\\ 009, 0\\ 073\\ \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba Totevision Unitec Unitech	$\begin{array}{c} 013, 0\\ 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 044, 0\\ 018, 0\\ 073, 0\\ 010\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 000\\ 007\\ 000, 0\\ 0073\\ 009\\ 0073\\ 009 \end{array}$
Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba Totevision Unitec	$\begin{array}{c} 013, 0\\ 013, 0\\ 051, 0\\ 004, 0\\ 049\\ 075\\ 047, 0\\ 004, 0\\ 052, 0\\ 076, 0\\ 035\\ 018, 0\\ 076, 0\\ 018, 0\\ 073, 0\\ 010\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 018, 0\\ 007\\ 010\\ 037\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 010\\ 007\\ 000\\ 005, 0\\ 009\\ 005, 0\\ 005, 0\\ 00005, 0\\ 0005, 0\\ 0\\ 0005, 0\\ 0\\ 0005, 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $
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009,	011,	038, 056,	
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XR-1000	018
Yamaha	005, 006, 007, 014,
	037, 053
Zenith	004, 032, 034, 041,
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Lasonic

Panasonic

Venturer

## Chapter 4: Menu layout and navigation

## Main menu layout

The tables below and on the next page provide a quick overview of your TV's menu system. To open the main menus (illustrated below), press  $\stackrel{\text{MENU}}{\bigcirc}$  on the remote control or TV control panel.

lcon	ltem	Option
Video	Mode	→ Sports/Standard/Movie/Preference
	Picture Settings	$\rightarrow$ [Opens the Picture Settings menu]
	Noise Reduction	$\rightarrow$ [Opens the Noise Reduction menu]
	Game Mode	$\rightarrow$ On/Off
	Theater Settings	$\rightarrow$ [Opens the Theater Settings menu]
Audio	Digital Audio Selector	→ [Launches the temporary Audio Selector]
	Audio Settings	$\rightarrow$ [Opens the Audio Settings menu]
	Advanced Audio Settings	$\rightarrow$ [Opens the Advanced Audio Settings menu]
	Audio Setup	$\rightarrow$ [Opens the Audio Setup menu]
Preferences	CC Selector	$\rightarrow$ [Launches the temporary CC Selector]
	Base CC Mode	$\rightarrow$ OFF/CC1/CC2/CC3/CC4/T1/T2/T3/T4
Į,	Digital CC Settings	$\rightarrow$ [Opens the Digital CC Setup menu]
	Input Labeling	$\rightarrow$ [Opens the Input Labeling menu]
	Channel Labeling	$\rightarrow$ [Opens the Channel Labeling menu]
	Menu Language	→ English/French/Spanish
	Channel Browser Setup	$\rightarrow$ [Opens the Channel Browser Setup menu]
Locks	Enable Rating Blocking	$\rightarrow$ Off/On
Q	Edit Rating Limits	→ [Opens the Edit Rating Limits menu]
	Channels Block	$\rightarrow$ [Opens the Channels block menu]
	Input Lock	$\rightarrow$ Off/Video/Video+
	Front Panel Lock	→ Off/On
	New PIN Code	$\rightarrow$ [Opens the New PIN Code entry screen]
Setup	Installation	$\rightarrow$ [Opens the Installation menu ( $\mathbb{r}$ page 28)]
24	Sleep Timer	$\rightarrow$ [Opens the Sleep Timer menu]
**	PC Settings	$\rightarrow$ [Opens the PC Settings menu]
	Power-On Mode	→ Power-Saving/Fast

## Setup/Installation menu layout

The Installation menu contains the Terrestrial and System Status menus.

To open the **Installation** menu (illustrated below), press  $\bigcirc^{MENU}$  on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press MENU.

	lcon	ltem	Option
Press $\bigcirc^{MENU}$ ,	Terrestrial	Input Configuration	$\rightarrow$ [Opens the Input Configuration menu]
open the	Нн	Channel Program	$\rightarrow$ [Start] $\rightarrow$ [Scans for new channels on ANT]
Setup menu, and then		Channel Add/Delete	$\rightarrow$ [Opens the Channel Add/Delete menu]
open the		Signal Meter	$\rightarrow$ [Opens the Signal Meter menu]
Installation sub-menu.	System Status	System Information	$\rightarrow$ [Opens the System Information screen]

### Navigating the menu system

You can use the buttons on the remote control or TV control panel to access and navigate your TV's on-screen menu system.

- Press  $\bigcirc^{\text{MENU}}$  to open the menu system.
- When a menu is open, use the up/down/left/right arrow buttons (▲▼◀▶) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press I to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press  $\bigcirc^{EXIT}$ .

#### Note:

• The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.



• The Video sub-menu appears with a black background, which looks different from other menus.

Picture Settings Mode: Sports				
Contrast	100			
Back Light	100	_	0	
DynaLight		On		
Brightness	50		0	
Color	50	_	0	
Tint	0		0	
Sharpness	50		0	
Advanced Picture Settings				
Reset		Done		

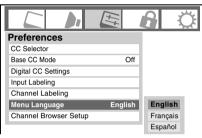
## Chapter 5: Setting up your TV

## Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the on-screen display of menus and messages.

#### To select the menu language:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Preferences** menu.
- 2 Highlight Menu Language and press ►.
- 3 Press ▲ or ▼ to select your preferred menu language and press .

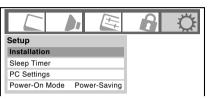


**4** Press  $\stackrel{\text{EXIT}}{\bigcirc}$  to close the **Preferences** menu.

## Configuring the antenna input source for the ANT terminal

#### To configure the ANT input source:

- **1** Press  $\overset{MENU}{\bigcirc}$  and open the **Setup** menu.
- **2** Highlight **Installation** and press **I**.



**3** (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Input Configuration**, and press **(FF)**.

C Installation	HHH []
	Terrestrial
	Input Configuration
	Channel Program
	Channel Add/Delete
	Signal Meter

4 Press ◀ or ► to select the input source (**Cable** or **Antenna**) for the **ANT** input on the TV.

Input Configuration				
Antenna In		•	Cable	►
	Cancel		Done	

**5** To save your new settings, highlight **Done** and press I and press I and press I and press I and press II.

## Programming channels into the TV's channel memory

When you press  $(c_{H})$  or  $(c_{H})$  on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory.

Follow the steps below to program channels into the TV's channel memory.

### Programming channels automatically

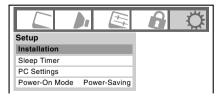
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

#### Note:

- You must configure the antenna input source before programming channels (s page 29).
- If the Antenna input signal type is set to **Cable**, the automatic channel programming process erases channels that were previously programmed into the TV's memory.
- If the Antenna input signal type is set to **Antenna**, the automatic channel programming process adds newly found channels to the existing set of programmed channels (and does NOT erase channels that were previously programmed into the TV's memory.) To remove an Antenna source channel from the memory, you must manually delete it.
- To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
- Programming channels when the antenna input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.

#### To program channels automatically:

- 1 Configure the antenna input source, if you have not already done so (r page 29).
- **2** Press O and open the **Setup** menu.
- **3** Highlight **Installation** and press **Im**.



4 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program** to bring up the **Start**, and press me again to begin channel programming.

C Installation	HHH []	
	Terrestrial	
	Input Configuration	
	Channel Program	Start
	Channel Add/Delete	
	Signal Meter	
	Cable ing channels, please wait annels Found - 73 tal Channels	%
Found Channe		

The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message "Scanning channels, please wait" appears (as shown above).

**5** To cancel channel programming, press on the remote control (or highlight **Abort** in the on-screen display and press ()).

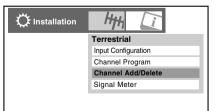
When channel programming is finished, press (A) or (C) to view the programmed channels.

#### Manually adding and deleting channels in the channel memory

After automatically programming channels into the channel memory, you can manually add or delete individual channels.

#### To add or delete channels in the channel memory:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Setup** menu.
- **2** Highlight **Installation** and press **•••**.
- 3 (A new set of Installation menu icons will appear, as shown below.) Open the Terrestrial menu, highlight Channel Add/Delete, and then press IP.



#### To add a channel to the channel memory:

Highlight the unchecked box next to the channel number you want to add, and then press must be check the box.

## To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash ( $\overline{(00)}$ ) on the remote control to enter the channel number (for example, 56–1). If the channel is found, the number will be added to the list and

the box will be checked.

If the channel is not found, a message will appear.

#### To remove a channel from the channel memory:

Highlight the checked box next to the channel number you want to remove, and then press me to uncheck the box.

#### To save your new settings:

Highlight **Done** and press I.

#### To revert to your original settings:

Highlight **Cancel** and press me before saving.

#### To remove all channels from the channel memory:

Highlight **Reset** and press 📾, and then highlight **Done** and press 📾.

Cha	innel Add/D	elete		
<b>A</b> [	7 2		Analog	
	2-1		Digital	
B	2-2		Digital	
C	3		Analog	
5	4		Analog	
5	5		Digital	
E	6		Analog	
E	7		Analog	Reset
5	7 - 1		Digital	Cancel
	8		Analog	Done

## To remove encrypted channels from the channel memory:

If an encrypted channel is accidentally added to the channel list by programming channels, you can remove the unwanted encrypted (non-viewable) channel while you are channel surfing. When you tunes to an encrypted channel, the following message will appear.

#### Digital Channel Is Encrypted - Press 1 on remote to remove channel

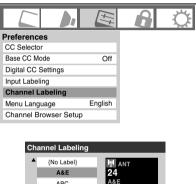
Press "①" button while the message is on the screen to remove the unnecessary channel from the channel list.

## Labeling channels

A list of common channel labels (logos) for various channels (ABC, CBS, etc.) will be programmed into the TV. You will be able to view and assign these logos from the **Channel Labeling** window. If the desired channel label is not provided in the list, you will be able to manually enter/edit labels using the software keyboard.

#### To assign channel labels:

- **1** Press <sup>MENU</sup> and open the **Preferences** menu.
- 2 Highlight Channel Labeling and press I The Channel Labeling window opens.





- **3** Press  $\bigcirc$  or  $\bigcirc$  to select the channel you want to label.
- 4 Press ▲▼◀► to highlight the desired channel label and press (ITP).
- **5** Repeat steps 3 and 4 for other channels.
- **6** To save your settings, highlight **Done** and press **E**.

Channel Labeling				
۸	{No Label}	HT ANT		
	A&E	24		
	ABC	A&E		
	ABCFAM	Press CH UP/DOWN to change channels.		
	ABCHD			
	AMAX			
	AMAXW	/ Custom		
	AMC	Clear All		
•	ANIMAL	Done		

The maximum number of labels that can be stored is 128.

#### To remove channel labels:

- **1** Open the **Channel Labeling** window.
- 2 Press ( ) or ♥ to select the channel for which you want to remove the label.

**3** Press  $\blacktriangle \lor \blacklozenge \lor$  to highlight **No Label** and press m.

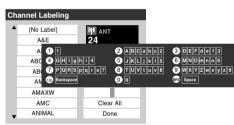
Channel Labeling			
	{No Label}	m ANT	
	A&E	24	
	ABC		
	ABCFAM	Press CH UP/DOWN to change channels.	
	ABCHD		
	AMAX		
	AMAXW	/ Custom	
	AMC	Clear All	
	ANIMAL	Done	
		50110	

- **4** Repeat steps 2 and 3 for other channels.
- **5** To save your settings, highlight **Done** and press **•••**.

If the desired channel label is not available from the list of presets, you can create a custom label.

#### To create and assign a custom label:

- **1** Open the **Channel Labeling** window.
- **2** Press  $\widehat{(H)}$  or  $\bigcirc$  to select a channel you want to label.
- Press ▲▼ ► to highlight Custom and press m.
   The software keyboard will appear.

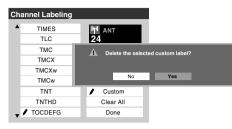


- **4** Repeatedly press the corresponding key on the remote control to highlight the desired character on the on-screen software keyboard.
- **5** The highlighted character is entered after you either press a different key, press  $\triangleright$  key, or after a two-second pause.
- 6 Repeat steps 4 and 5 until you have entered all desired text.
- **7** When finished, press **B**.
- 8 (New labels will be added to the list in alphabetical order and marked with an icon ≠ to indicate that they are custom.) Highlight the new custom label and press me to assign.

#### To delete the custom label:

- **1** Open the **Channel Labeling** window.
- **2** Highlight the label to be deleted and press **(m)**.

**3** Highlight **Yes** from the deletion confirmation window and press **(IP)**.



4 Highlight **Done** and press me to save changes, and go back to the **Channel Labeling** window.

### Setting the HDMI<sup>™</sup> audio mode

#### To set the HDMI audio mode:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Setup and press 📾.
- Press ▲ or ▼ to select HDMI 1 Audio and then press
  ◀ or ▶ to select the HDMI 1 audio mode (Auto, Digital, or Analog). (Auto is the recommended mode.) See "Connecting an HDMI or DVI device to the HDMI input" (IS page 17).

Audio Setup	
PC Audio	No
HDMI 1 Audio	<ul> <li>Auto ►</li> </ul>
MTS	Stereo
Language	English
Optical Output Forma	at Dolby Digital
Dolby Digital Dynamic Range Con	trol
Rese	t Done

**Note:** Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to "**No**," the **HDMI 1 Audio** setting changes to "**Auto**." If **PC Audio** is set to "**Yes**," the **HDMI 1 Audio** setting is set to "**Digital**" and is grayed out in the menu. (Also see item 4 on page 11 and "Setting the PC Audio" on page 52.)

## Viewing the digital signal meter

You can view the digital signal meter in the ANT digital TV input source only.

#### To view the digital signal meter:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Setup** menu.
- **2** Highlight **Installation** and press **IDE**.
- 3 A new set of Installation menu icons will appear, as shown below. Open the **Terrestrial** menu, highlight **Signal Meter**, and press **(PR)**.

C Installation	HHH I
	Terrestrial
	Input Configuration
	Channel Program
	Channel Add/Delete
	Signal Meter

4 Press ▲▼◀▶ to select the antenna input and digital channel whose signal you want to check.

**Note:** The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.

ŝ	Signal Mete	r			
	Signal Lock	ed			
			0	Peak	0
	Physical Digital Channel Virtual Digital Channel			4	
				4-1	
		Advanced	Do	ne	

## To close the screen and return to the Terrestrial menu:

Highlight **Done** and press IMP.

## To return to normal viewing: Press $\stackrel{\mathsf{EXIT}}{\frown}$ .

## Viewing the system status

#### To view the system status:

- **1** Press  $\overset{MENU}{\bigcirc}$  and open the **Setup** menu.
- **2** Highlight **Installation** and press **IPP**.
- 3 A new set of Installation menu icons will appear, as shown below. Open the **System Status** menu, highlight **System Information**, and press **(PR)**.

C Installation	HHH LI
	System Status
	System Information

4 Press **♦** to scroll through the menu bar to select the **Software Version** and view the related information.



To close the screen and return to the Installation menu:

Highlight **Done** and press Im.

To return to normal viewing: Press  $\stackrel{\text{exit}}{\bigcirc}$ .

#### **Reset Factory Defaults**

To reset all settings and channels to their factory default values:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Setup** menu.
- **2** Highlight **Installation** and press **(III)**. A new set of Installation menu icons will appear.
- **3** Open the System Status menu, highlight System Information, and press IPP.
- 4 Press **♦** to scroll through the menu bar to select **Factory Defaults**.

This window provides the ability to reset the TV settings.Type in your PIN now (or "0000" if no PIN has been set) to restore settings to their factory default values.	•	Factory	Defaults	•
	settings. PIN has	Type in your PI been set) to res	N now (or "00	00" if no

**5** Enter your PIN code (or 0000 if no PIN code has been set).

(continued)

6 Highlight **Yes** and press I. The TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.



To cancel the reset:

Highlight **No** and press INTER.

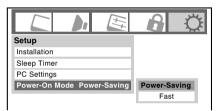
## **Selecting the Power-On Mode**

You can select either **Power-Saving** or **Fast** mode.

- **Power-Saving** mode keeps power consumption in standby mode to below 3W. As a result, it takes a bit longer to turn on.
- **Fast** mode increases power consumption in standby mode. As a result, the TV will turn on quicker. While in **Fast** mode, the yellow LED on the TV front will be lit.

#### To set the Power-On Mode feature:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$ , and open the **Setup** menu.
- 2 Highlight Power-On Mode and press ►.
- **3** Press  $\blacktriangle$  or  $\checkmark$  to select either **Power-Saving** or **Fast**.



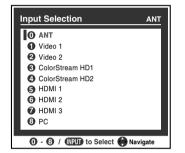
## Chapter 6: Using the TV's features

## Selecting the video input source to view

#### To select the video input source to view:

- **1** Press wer on the remote control or TV control panel.
- **2** And then either:
  - a) Press 0-8; or
  - b) Repeatedly press ▲▼ on the remote control and then press to change the input; or
  - c) Repeatedly press (m) on the remote control or TV control panel to change the input.

The current signal source displays in the top right corner of the **Input Selection** screen.



#### Note:

- You can label the video input sources according to the specific devices you have connected to the TV (Instructional the video input sources" at right).
- The source can be "hidden" (reg "Labeling the video input sources" at right).
- "No Video Signal" will appear randomly on the screen if no signal is received in the video input mode.

### Labeling the video input sources

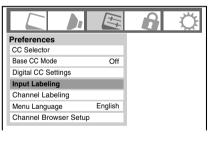
You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- -- (default label)
- Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HD DVD
- Laser Disk
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the Input Selection screen)

**Note:** If you select PC in the Input Selection screen, you can choose only "--" or "Hide" as the label.

#### To label the video input sources:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Preferences** menu.
- 2 Highlight Input Labeling and press m.
- **3** Press  $\blacktriangle$  or  $\blacktriangledown$  to highlight the video source you want to label.



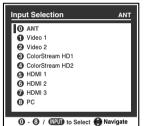
Input Label	ing	
Video 1		VCR
Video 2		Cable
ColorStream	n HD 1	Video Recorder
ColorStream	n HD 2	Hide
HDMI 1		DTV
HDMI 2		Satellite/DSS
HDMI 3		DVD
PC		
	Reset	Done

- 4 Press ◄ or ► to select the desired label for that input source. If a particular input is not used, you can select Hide as the label, which will cause that input to be "grayed out" in the Input Selection screen and skipped over when you press (m) on the remote control.
- **5** To save the new input labels, highlight **Done** and press **(III)**.

To revert to the factory default labels, highlight **Reset** and press m.

#### Input labeling example:

The screen below left shows the default **Input Selection** screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a VCR to VIDEO 1, Cable TV to VIDEO 2, a video recorder to ColorStream HD1, a DTV settop box to HDMI 1, a satellite/DSS set-top box to HDMI 2, and a DVD player to HDMI 3. Also note that the ColorStream HD2 input is labeled "Hidden," which means that input will be skipped over when imp is pressed.





Input Selection screen with no inputs labeled.

Input Selection screen with all inputs labeled except input 4, which has been hidden.

#### To clear the input labels:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Preferences** menu.
- 2 Highlight Input Labeling and press Im.
- **3** Highlight **Reset** and press in.

## **Tuning channels**

#### Tuning channels using the Channel Browser™

The Channel Browser<sup>™</sup> provides an easy navigation interface for all your channels and inputs. This feature allows you to:

- Navigate the contents of all of your inputs.
- Keep a list of your favorite channels (see "Favorites Browser," below).
- Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser<sup>™</sup> History List (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser<sup>™</sup>) or Select mode (to surf over channels in the Channel Browser<sup>™</sup> before you select one to tune).
- Quickly change inputs from the Inputs List.

#### **Favorites Browser**

The Favorites Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel Browser<sup>™</sup>.

#### To add a favorite channel/input:

- **1** Tune to the channel or input.
- **2** Press and hold  $\stackrel{\text{FAV BROWSER}}{\bigcirc}$  for 3 seconds.

**Note:** Additions are added to the beginning of the Favorites list on the left side of the Channel Browser<sup>™</sup>.

#### To delete a favorite channel/input:

- **1** Press <sup>FAV BROWSER</sup> to open the Favorites browser list.
- **2** Highlight the channel or input to delete by pressing  $\mathbf{a} \mathbf{A}$  or  $\mathbf{a} \mathbf{b}$ .
- **3** Press and hold (n) for 3 seconds. The channel/input will be removed from the Favorites list.

#### To set up the Channel Browser<sup>™</sup>:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Preferences** menu.
- 2 Highlight Channel Browser Setup and press m.
- 3 Press ▲ to highlight Navigation, and then press ◄ or ► to select either Browse Mode or Select Mode.

Channel Browser Setup					
	Navigation		•	Select Mode	►
	History List		Power Off Clear (On)		
	ANT List		NT List On		
Inputs List		On			
	Favorites List		On		
		Reset		Done	

4 Press ▼ to highlight History List, and then press ◄ or ► to select the setting you prefer: either Power Off Clear (On), On, or Off.

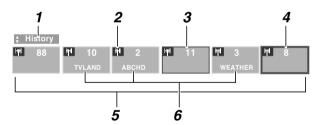
**Note:** When **History List** is set to **On**, the channels and inputs stored in the list will be saved every power on/off cycle. When **History List** is set to **Power Off Clear (On)**, the channels and inputs stored in the list will be cleared with every power on/off cycle of the TV.

- **5** Press  $\checkmark$  to highlight **ANT List**, and then press  $\blacktriangleleft$  or  $\triangleright$  to select **On** or **Off**.
- 6 Press ▼ to highlight Inputs List, and then press ◄ or ► to select On or Off.
- 7 Press ▼ to highlight Favorites List, then press ◄ or ► to select On or Off.
- 8 To save your entries, highlight **Done** and press in . To return to factory defaults, highlight **Reset** and press in.

#### To open the Channel Browser<sup>™</sup>:

- Press B or B on the remote control.
- Press at to surf backward through the previously tuned 32 channels in the History list, the channels in the ANT channel list, the inputs in the Inputs list, or the favorite channels/ inputs in Favorites list.
- Press 
  → to surf forward through the channel History, the ANT channel list, the Inputs list, or the favorite channels/ inputs in Favorites list.

#### Elements of the Channel Browser™



- 1 Current list (History, ANT, Inputs, or Favorites)
- **2** Input type
- **3** Channel or input currently being viewed
- **4** Channel or input that is currently highlighted in the browser
- **5** Channels stored in the History List
- 6 Channel labels

#### To toggle among the available lists:

After opening the Channel Browser<sup>TM</sup>, press  $\blacktriangle$  or  $\blacktriangledown$  to toggle among **History**, **ANT**, **Inputs**, and **Favorites**.

#### Note:

 The Channel Browser<sup>™</sup> opens in **History List** by default. Once another list has been selected, the Channel Browser<sup>™</sup> will open in the last selected list.

- If all lists are turned off, pressing <sup>™</sup> ◄, <sup>™</sup> ►, or <sup>FAV BROWSER</sup> will not display the Channel Browser<sup>™</sup>. If **Favorites List** is turned off, <sup>FAV BROWSER</sup> will have no effect.
- Pressing <sup>FAV BROWSER</sup> will bring up the Channel Browser<sup>™</sup> Favorites list regardless of the last selected list in the Channel Browser<sup>™</sup>.

#### To tune to a channel or input in Browse mode:

While watching TV, press <sup>™</sup> < or <sup>™</sup> 
to open the Channel Browser<sup>™</sup> and surf back to a previous item or surf forward to the next item in the list.

In **Browse** mode, when you stop on an item in the Channel Browser<sup>TM</sup>, it will be highlighted and the TV will automatically tune to the channel or input.

**2** Press  $\stackrel{\text{EXIT}}{\bigcirc}$  to close the Channel Browser<sup>TM</sup>.

**Note:** The Channel Browser<sup>™</sup> will close automatically if you do not make a selection within 30 seconds.

#### To tune to a channel or input in Select mode:

In **Select** mode, when you stop on an item in the Channel Browser<sup>M</sup>, it will be highlighted but you must press in to tune the TV to the highlighted item.

- **2** Press is to tune the TV to the highlighted item.
- **3** Press  $\stackrel{\text{EXIT}}{\bigcirc}$  to close the Channel Browser<sup>TM</sup>.

# Adding and clearing channels and inputs in the History List

#### Adding channels and inputs to the History List:

As a channel or input is tuned, the Channel Browser<sup>™</sup> adds it to the History List and displays it on the "right side" of the Channel Browser<sup>™</sup>. Previously tuned channels/inputs are "shifted" to the left, eventually moving off the left side. Press to surf backward through the previously tuned channels/ inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser<sup>™</sup>.

The Channel Browser<sup>™</sup> will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned using ( ) or ) on the remote control.

**Note:** Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.

#### **Clearing channels from the History List:**

• Reconfiguring the **ANT** input will clear the History List.

*Note:* See page 29 for details on configuring the antenna input.

- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- If **History List** in the **Channel Browser Setup** is set to "**Power Off Clear (On)**," turning off the TV will clear the History List.

### Tuning to the next programmed channel

#### To tune to the next programmed channel:

Press  $\bigcirc$  or  $\bigcirc$  on the remote control or TV control panel.

**Note:** This feature will not work unless you program channels into the TV's channel memory (respace 30).

# Tuning to a specific channel (programmed or unprogrammed)

#### **Tuning analog channels:**

Press the Channel Number (0–9) on the remote control. For example, to select channel 125, press 1, 2, 5.

#### Tuning digital channels:

Press the Channel Number (0-9) on the remote control, followed by the dash ( $(\overline{100})$ ) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, -, 1.

**Note:** If a digital channel is not programmed—either through the automatic channel scan (rs page 30) or the channel add/ delete function (rs page 30)—you will have to tune the RF channel using the Channel Number and dash (m) on the remote control.

### Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

- Select the first channel you want to view.
- 2 Select a second channel using the Channel Number buttons (and the dash (1)) button if selecting a digital channel).
- 3 Press <sup>CH RTN</sup> on the remote control. The previous channel will display. Each time you press <sup>CH RTN</sup> the TV will switch back and forth between the last two channels that were tuned.

**Note:** If you press  $\stackrel{\mathsf{CH}_{O}}{\longrightarrow}$  from a non-antenna input, the TV will return to the last-viewed input.

### Switching between two channels using SurfLock™

The SurfLock<sup>TM</sup> feature temporarily "memorizes" one channel in the  $\bigcirc^{CHBTN}$  button, so you can return to that channel quickly from any other channel by pressing  $\bigcirc^{CHBTN}$ . To memorize a channel in the  $\bigcirc^{CHBTN}$  button:

- **1** Tune the TV to the channel you want to program into the CHRTN button.
- Press and hold <sup>CH RTN</sup> for about 2 seconds until the message "Channel Memorized" appears on-screen. The channel has been programmed into the <sup>CH RTN</sup> button.
- **3** You can then change channels repeatedly, and when you press <sup>CH RTN</sup>, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press  $\stackrel{CH_{O}}{\longrightarrow}$  and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned.

# Selecting the picture size

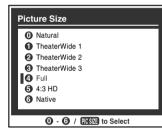
# You can view many program formats in a variety of picture sizes—Natural, TheaterWide 1, TheaterWide 2, TheaterWide 3, Full, 4:3 HD and Native.

**Note:** The "picture size" illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.

You can save separate picture size preferences for each input on your TV.

#### To select the picture size using the remote control:

- **1** Press  $\stackrel{\mathsf{PIC SIZE}}{\bigcirc}$  on the remote control.
- **2** While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
  - Repeatedly press O
  - Press the corresponding Number button (0–6) while the **Picture Size** screen is open.
  - Press  $\blacktriangle$  or  $\blacktriangledown$  while the **Picture Size** screen is open.



#### To select the picture size using the menus:

- **1** Select **Picture Size** in the **Theater Settings** menu.
- **2** Press  $\blacktriangleleft$  or  $\triangleright$  to select the desired picture size setting.
- **3** Highlight **Done** and press **IDE**.

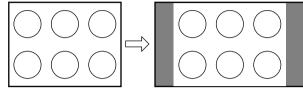


**Note:** Some of the picture sizes may not be available depending on the receiving signal format (those will be "grayed out" in the **Picture Size** screen).

Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability. **Note:** If you select one of the TheaterWide<sup>®</sup> picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (**TheaterWide 2** and **3** only) or try viewing the program in **Full** or **Natural** picture size.

### **Natural picture size**

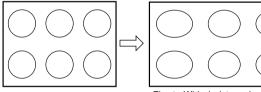
• The image is displayed close to its originally formatted proportion. Some program formats will display with sidebars and/or bars at the top and bottom.



Natural picture size example

### TheaterWide 1 picture size (for 4:3 format programs)

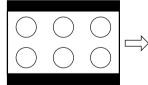
• The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.

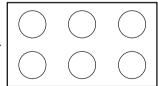


TheaterWide 1 picture size example

### TheaterWide 2 picture size (for letter box programs)

- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture may be hidden. To view the hidden areas, see "Scrolling the TheaterWide<sup>®</sup> picture" (rspage 40).

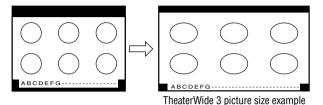




TheaterWide 2 picture size example

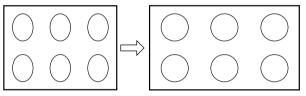
# TheaterWide 3 picture size (for letter box programs with subtitles)

- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges are hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide<sup>®</sup> picture."



# Full picture size (for 16:9 [480i, 480p] source programs only)

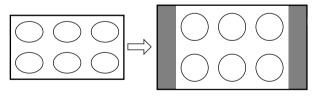
- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example

# 4:3 HD picture size (for 720p, 1080i, and 1080p program sources only)

- Sidebars fill the empty vertical spaces.
- Picture is not distorted from original size.



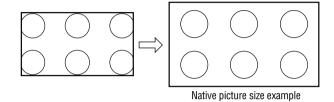
4:3 HD picture size example

# Native picture size (for 720p, 1080i, and 1080p signal programs)

- If receiving a 720p, 1080i, or 1080p signal program, Native mode scales the video to display the picture entire within the borders of the screen (i.e. no overscanning).
- This is especially useful for external HD sources such as HD-DVD, DVHS movies, or PC graphics.

#### Note:

- Native picture size is available for 720p, 1080i, and 1080p signals only. If the signal being received is other than 1080i, 1080p, or 720p, "**Native**" will be grayed out in the **Picture Size** screen.
- This mode is supported only for HDMI and ColorStream inputs.
- Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.



# Scrolling the TheaterWide<sup>®</sup> picture (TheaterWide 2 and 3 only)

You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

#### To set the scroll settings:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the Video menu.
- 2 Highlight Theater Settings and press m.



- 3 In the **Picture Size** field, select either **TheaterWide 2** or **TheaterWide 3** (you cannot scroll in any other mode).
- 4 Press ▼ to highlight the **Picture Scroll** field.
- **5** Press  $\blacktriangleleft$  or  $\triangleright$  to scroll the picture up and down as needed, from -10 to +20.

Theater Settings		Mode: Sports	
	Picture Size	TheaterWide 2	
	Picture Scroll	-5	
	Cinema Mode	Film	
	Auto Aspect Ratio	On	
	Reset	Done	

**6** To save the new settings, highlight **Done** and press **(PF)**. To revert to the factory defaults, highlight **Reset** and press **(PF)**.

# Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **On**, the TV will automatically select the picture size when one of the following input sources is received:

- A 480i signal from the VIDEO 1, VIDEO 2, ColorStream HD-1, or ColorStream HD-2 input.
- A 480i, 480p, 720p, 1080i, 1080p, or VGA signal from the **HDMI** input.

Aspect ratio of signal source	Automatic aspect size (automatically selected when Auto Aspect is On)
4:3 normal	Natural (with sidebars)
4:3 letter box	TheaterWide 2
16:9 full	Full
Not defined (no ID-1 data or HDMI aspect data)	The current picture size you set under "Selecting the picture size" on page 39.

**Note:** The auto aspect ratio feature is not applicable to antenna or cable input sources.

#### To turn on the auto aspect ratio feature:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Theater Settings and press Im.
- **3** In the Auto Aspect Ratio field, select **On**.

Theater Settings		Mode: Sports
Picture Size		Natural
Picture Scroll		I
Cinema Mode		Film
Auto Aspect Ratio	•	On 🕨
Reset		Done

4 To save the new settings, highlight **Done** and press IPP. To revert to the factory defaults, highlight **Reset** and press IPP.

#### To turn off the auto aspect ratio feature:

Select **Off** in step 3 above.

# Selecting the cinema mode (480i and 1080i signals)

When you view a DVD (3:2 pulldown processed) from a DVD player connected to the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, **ColorStream HD-2** (component video), or **HDMI** inputs on the TV, smoother motion can be obtained by setting the **Cinema Mode** to **Film**.

#### To set the Cinema Mode to Film:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Theater Settings and press m.
- **3** In the **Cinema Mode** field, select **Film**.

Theater Settings					Mode: Sports
	Picture Size	)		Natura	1
	Picture Scro	oll			
	Cinema Mode		•	Film	►
	Auto Aspec	t Ratio		On	
		Reset		Done	

4 To save the new settings, highlight **Done** and press [19]. To revert to the factory defaults, highlight **Reset** and press [19].

#### To set the Cinema Mode to Video:

Select Video in step 3 above.

# Adjusting the picture

## Selecting the picture mode

You can select your desired picture settings from four different modes, as described below.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture settings (factory setting)
Movie	Lower contrast for darkened room (factory setting)
Preference	Your personal preferences

#### To select the picture mode:

Press  $\overset{\text{PIC MODE}}{\bigcirc}$  on the remote control.

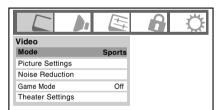
The following popup menu appears on-screen.

Sports
Standard
Movie
Preference

Press  $\blacktriangle$  or  $\blacktriangledown$  to select the picture mode you prefer and press BMB.

#### To select the picture mode using the menu system:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the Video menu.
- 2 Highlight Mode and press im.



3 Press ▲ or ▼ to select the picture mode you prefer and press .

Sports	
Standard	
Movie	
Preference	

**Note:** The picture mode you select affects the current input only. You can select a different picture mode for each input.

# Adjusting the picture quality

You can adjust the picture quality (Contrast, Back Light, DynaLight<sup>TM</sup>, Brightness, Color, Tint, and Sharpness) to your personal preferences.

Selection	Pressing ◀	Pressing ►
Contrast	lower	higher
Back Light*	darker	lighter
DynaLight**	On/Off	On/Off
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

Back Light

This feature adjusts the brightness of the entire screen. When in video mode and no signal is input, this will automatically be set to 0. (Settings are stored in memory.)

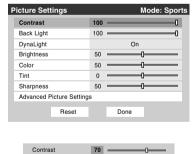
\*\*DynaLight

This function automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

#### To adjust the picture quality:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the Video menu.
- **2** Highlight **Picture Settings** and press **•••**.
- Press ▲ or ▼ to select the picture quality you want to adjust (Contrast, Back Light, DynaLight, Brightness, Color, Tint, or Sharpness), and then press ◀ or ► to adjust the setting, as described in the table

press  $\blacktriangleleft$  or  $\triangleright$  to adjust the setting, as described in the table above.



**4** To save the new settings, highlight **Done** and press **•••**. You can use any of the picture modes (**•\*\*** "Selecting the picture mode," above left) as a starting point for adjusting the picture settings.

To revert back to the base mode that you began adjusting the picture settings from, highlight **Reset** and press IPP.

The picture qualities you adjusted are automatically saved in the **Preference** mode (rease "Selecting the picture mode," above left) until **Reset** is selected.

# Using the closed caption mode

### **Base closed captions**

The closed caption mode has two options:

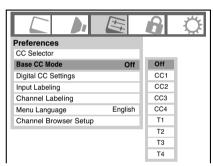
- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked "CC" in program guides).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

#### To view captions or text:

**1** Press  $\bigcirc^{\text{MENU}}$  and open the **Preferences** menu.

2 Highlight **Base CC Mode** and press ►.

3 Press ▲ or ▼ to select the desired closed caption mode and press .



#### • To view captions:

Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



**Note:** If the program or video you selected is not closed captioned, no captions will display on-screen.

To view text: Highlight **T1**, **T2**, **T3**, or **T4**.



**Note:** If text is not available in your area, a black rectangle may appear on screen. If this happens, set the Base CC Mode to **Off**.

• To turn off the closed caption mode: Select Off in step 3 above. **Note:** A closed caption signal may not display in the following situations:

- When a videotape has been dubbed
- When the signal reception is weak
- When the signal reception is non-standard

# **Digital CC Settings**

You can customize the closed caption display characteristics by changing the background color, text size, type, edge, and color.

#### Note:

- This feature is available for digital channels only.
- You cannot set the Caption Text and Background as the same color.

#### To customize the closed captions:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Preferences** menu.
- 2 Highlight Digital CC Settings and press m.
- 3 Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◀ or ► to select the format for that characteristic (see table below).

Digital CC Settings		
Caption Size	▲ Auto ►	
Caption Text Type	Auto	
Caption Text Edge	Auto	
Caption Text Color	Auto	
Background Color	Auto	
Caption Text Edge Color	Auto	
	ABC123	Preview window
Reset	Done	

4 To save the new settings, highlight **Done** and press IPP. To revert to the factory defaults, highlight **Reset** and press IPP.

Caption Size	Auto, Small, Standard, Large
Caption Text Type	Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals
Caption Text	Auto, None, Raised, Depressed, Uniform,
Edge	Left Drop Shadow, Right Drop shadow
Caption Text	Auto, Black, White, Red, Green, Blue,
Color	Yellow, Magenta, Cyan
Background	Auto, Black, White, Red, Green, Blue,
Color	Yellow, Magenta, Cyan
Caption Text	Auto, Black, White, Red, Green, Blue,
Edge Color	Yellow, Magenta, Cyan

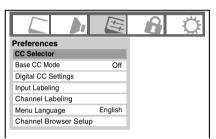
# **CC** Selector

You can use the **CC Selector** to temporarily override the default analog caption mode (set in **Base CC Mode**) for a particular channel. However, once you change to another analog channel, the closed caption setting will automatically change back to the current **Base CC Mode** setting.

You can also use the **CC Selector** to select digital closed caption services (if available). When such services are not available, the **CC Selector** presents a default list of services. If the selected service is not available, the next best service will be used instead.

#### To select closed captions:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Preferences** menu.
- 2 Highlight CC Selector and press Im.



**3** Press  $\blacktriangle$  or  $\blacktriangledown$  to select **Closed Caption**, and then press  $\blacktriangleleft$  or  $\triangleright$  to select the desired service.

Closed Caption	•	CC 1	•
		None	
Audio		None	

**4** Press  $\stackrel{\text{EXIT}}{\bigcirc}$ .

# Adjusting the audio

### Muting the sound

Press  $\bigcirc^{\text{MUTE}}$  to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press  $\bigcirc^{\text{MUTE}}$ , the mute mode will change in the following order:

 $\rightarrow$  1/2 Mute  $\rightarrow$  Mute  $\rightarrow$  Volume  $\rightarrow$  -

If the closed caption mode is set to **Off** when you select "MUTE" mode, the closed caption feature is automatically activated. To mute the audio without automatically activating the closed caption feature, use [100] to set the volume to 0. See "Using the closed caption mode" (100 page 43) for more information on closed caption modes.

# Using the digital audio selector

You can use the **Digital Audio Selector** to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under **Audio Setup** (ING) "Selecting stereo/SAP broadcasts" on page 45).

#### To use the digital audio selector:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Digital Audio Selector and press em.



3 Press ▲ or ▼ to select Audio, and then press ◀ or ► to select the desired service.

Closed Caption	CC
Audio	Noi

**4** Press  $\bigcirc^{EXIT}$ .

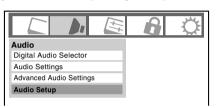
# Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when "ECALL is pressed. The MTS feature is not available when the TV is in VIDEO mode.

#### To listen to stereo sound:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Setup and press Im.



#### **3** In the **MTS** field, select **Stereo**.

A	Audio Setup						
	PC Audio	No					
	HDMI 1 Audio	Auto					
	MTS	•	Stereo	►			
	Language	English					
	Optical Output Format	Dolby Digital					
	Dolby Digital Dynamic Range Control	Compressed					
	Reset		Done				

4 To save the new settings, highlight **Done** and press I. To reset the settings to the factory defaults, highlight **Reset** and press I.

#### Note:

- You can typically leave the TV in Stereo mode because it will automatically output the type of sound being broadcast (stereo or monaural).
- If the stereo sound is noisy, select **Mono** to reduce the noise.

# To listen to an alternate language on an ATSC digital station (if available):

Highlight the **Language** field in step 3 above, and then press  $\triangleleft$  or  $\triangleright$  to select the language you prefer.

# To listen to a second audio program on an analog station (if available):

Select **SAP** in step 3 above.

#### Note:

- A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.
- If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output. However, occasionally there is no sound at all in SAP mode. If this happens, set the MTS feature to Stereo mode.

## Adjusting the audio quality

You can adjust the audio quality by adjusting the bass, treble, and balance.

#### To adjust the audio quality:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- **2** Highlight Audio Settings and press I.
- 3 Press ▼ or ▲ to highlight the item you want to adjust (Bass, Treble, or Balance).

A	Audio Settings						
	Bass		100	0			
	Treble		100	-0			
	Balance		00	-			
	StableSound		Off				
		Reset	Done				

- 4 Press  $\blacktriangleleft$  or  $\triangleright$  to adjust the level.
  - Imakes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).
  - makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).
- 5 To save the new settings, highlight **Done** and press IP. To reset the settings to the factory defaults, highlight **Reset** and press IP.

# Using the StableSound® feature

The StableSound<sup>®</sup> feature limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

#### To turn on the StableSound® feature:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Settings and press in.
- **3** In the **StableSound** field, select **On**.

ŀ	Audio Settings							
	Bass		100 =		0			
	Treble Balance		100 =		0			
			0 =	0				
	StableSound		•	On	►			
	Reset			Done				

4 To save the new settings, highlight **Done** and press I me. To revert to the factory defaults, highlight **Reset** and press I.

**Note:** The RESET function returns your audio adjustments to the following factory settings:

Bass	center (50)
Treble	center (50)
Balance	center (0)
StableSound	Off

#### To turn off the StableSound feature:

Select **Off** in step 3 above.

### Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **Optical Audio Out** terminal on the TV (see "Connecting a digital audio system" on page 18).

#### To select the optical audio output format:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the Audio menu.
- 2 Highlight Audio Setup and press Im.

**3** In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device.

A	Audio Setup						
	PC Audio		No				
	HDMI 1 Auc	lio	Auto				
	MTS Language		Stereo				
			English				
	Optical Output Format Dolby Digital Dynamic Range Control		•	Dolby Digital	►		
				Compressed			
		Reset		Done			

4 To save the new settings, highlight **Done** and press IPP. To revert to the factory defaults, highlight **Reset** and press IPP.

### Using the Dolby® Digital Dynamic Range Control feature

This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

#### To use the Dolby Digital Dynamic Range Control:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- **2** Highlight Audio Setup and press **FF**.
- **3** In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.

A	Audio Setup					
	PC Audio		No Auto			
	HDMI 1 Aud	lio				
	MTS		Stereo			
	Language		English			
	Optical Outp	Optical Output Format		Dolby Digital		
	Dolby Digit Dynamic Ra	al ange Control	◄ Compressed ►		ed 🕨	
		Reset		Done		

4 To save the new settings, highlight **Done** and press E. To revert to the factory defaults, highlight **Reset** and press E.

#### Note:

- This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.
- The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).

# Using the Locks menu

The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Front (control) Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

## **Entering the PIN code**

**1** Press  $\bigcirc^{MENU}$  and highlight the **Locks** menu icon.

	<i>[]</i>	ß	Ŏ
Locks			
Enable Rating Blocking	Off		
Edit Rating Limits			
Channels Block			
Input Lock	Off		
Front Panel Lock	Off		
New PIN Code			

- **2** Press  $\mathbf{\nabla}$ , which displays the PIN code entry screen.
  - The Lock System screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press (19).

Lock System	
	4 digit PIN code PIN code
Cancel	Done

• The Locks/Active screen (below) appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press m.



If the wrong PIN code is entered, the message "Incorrect PIN code, please try again!" appears. Highlight **Retry** and press **FID**. Enter the code again and press **FID**.

When the correct PIN code is entered, the **Locks** menu opens.

	<i>[1]</i>	6	Ċ
Locks			
Enable Rating Blocking	Off		
Edit Rating Limits			
Channels Block			
Input Lock	Off		
Front Panel Lock	Off		
New PIN Code			

### If you cannot remember your PIN code

While the PIN code entering screen is displayed, press four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

## **Changing your PIN code**

- **1** Press  $\bigcirc^{\text{MENU}}$  and highlight the **Locks** menu icon.
- **2** Press  $\checkmark$  to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press Im.
- 4 Press ▼ to highlight New PIN Code and press .

	[ <u>+</u> ]	6	Ċ,
Locks			
Enable Rating Blocking	Off		
Edit Rating Limits			
Channels Block			
Input Lock	Off		
Front Panel Lock	Off		
New PIN Code			

- **5** Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.
- **6** Press III. The new PIN code is now active.

New PIN Code	
Please enter a 4 Confirm I * *	∗ ∗ PIN code
Cancel	Done

# Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select. (For rating descriptions, see the tables on the next page.)

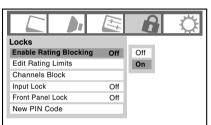
**Note:** Rating blocking is a function of the V-Chip feature in this TV, which supports the U.S. V-Chip system only.

#### To block and unblock TV programs and movies:

- **1** Press  $\bigcirc^{\text{MENU}}$  and highlight the **Locks** menu icon.
- **2** Press  $\checkmark$  to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press III.

#### **4** Press **▼** to highlight **Enable Rating Blocking**.

**5** Press  $\blacktriangleright$  and  $\checkmark$  to select **On**, and then press  $\blacksquare$ .



- 6 Press ▼ to highlight Edit Rating Limits and press I m. The Edit Rating Limits screen (below) appears.
- 7 Press ▲▼◀▶ and then press I to select the level of blocking you prefer. A box with an "×" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.
- 8 When done selecting the ratings you want to block, highlight **Done** and press IP.

Edit Rating Limits							
TV (V-CHIP)	FV	D	L	s	۷	Movies	
TV-Y	•	٠	٠	٠	٠	G	Children
🗹 TV-Y7	~	٠	٠	٠	٠	PG PG	Youth
TV-G	•	٠	٠	٠	٠	🗹 PG-13	
TV-PG	•	~	~	×	$\checkmark$	🖾 R	
🖾 TV-14	•		$\boxtimes$		$\boxtimes$	NC-17	Alt RS
🖾 TV-MA	•	٠	×	$\boxtimes$	$\times$	Х	Cancel
✓"None" Ra	ateo	d					Done

# Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

**Note:** The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.

# To download the additional rating system (if available):

- **1** Press  $\bigcirc^{\text{MENU}}$  and highlight the **Locks** menu icon.
- **2** Press  $\checkmark$  to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press I m.
- **4** Press **▼** to highlight **Enable Rating Blocking**.
- **5** Press  $\blacktriangleright$  and  $\checkmark$  to select **On**, and press m.
- 6 Press ▼ to highlight Edit Rating Limits and press I me.
   The Edit Rating Limits screen appears.
- 7 Highlight Alt RS and press IP. The Edit Alternate Ratings screen will appear.

#### Note:

- The **Alt RS** button will only be available if an additional rating system is currently available.
- It may take several minutes for the TV to download the additional rating system.
- The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.
- 8 Press ▲ ▼ ◀ ▶ and then press I to select the level of blocking you prefer. A box with an "×" is a rating that will be blocked.
- **9** When you are finished selecting the ratings you want to block, highlight **Done** and press **(III)**.
- **10** In the Edit Rating Limits screen, highlight Done and press in.

#### Note:

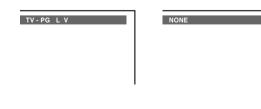
- The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.
- The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.
- The additional rating system is an evolving technology; therefore, availability, content, and format may vary.

Independent rating system for broadcasters				
Ratings	atings Description and Content themes			
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language S) Explicit sexual activity V) Graphic violence			
TV-14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence			
TV-PG	Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence			
TV-G	General Audience (Most parents would find this program suitable for all ages.)			
TV-Y7, TV-Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.)			
Τ٧-Υ	All Children (This program is designed to be appropriate for all children.)			

Independent rating system for movies			
Ratings	Ratings Description and Content themes		
Х	X-rated (For adults only)		
NC-17	Not intended for anyone 17 and under		
R Restricted (Under 17 requires accompanying paren or adult)			
PG-13         Parents Strongly Cautioned (Some material may binappropriate for children under 13)           PG         Parental Guidance Suggested (Some material main not be suitable for children)			
		G	General Audience (Appropriate for all ages)

#### Note:

- If you place an "X" in the box next to " 'None' Rated," programs rated "None" will be blocked; however, programs that do not provide any rating information will not be blocked.
- To display the rating of the program you are watching, press **RECALL** on the remote control. If it is rated "None," the word "**NONE**" appears in the **RECALL** screen (as shown below right). If rating information is not provided, no rating will appear in the **RECALL** screen.

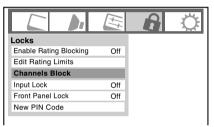


# **Blocking channels**

With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unlock them.

#### To block channels:

- **1** Press  $\bigcirc^{\text{MENU}}$  and highlight the **Locks** menu icon.
- **2** Press  $\checkmark$  to display the PIN code entering screen.
- Enter your four-digit PIN code and press mp (n ≥ page 47).
- 4 Press ▼ to highlight Channels Block and then press I highlight Channels Block and then press I highlight Channels available for that input will be displayed along with the call letters for each channel, if available.



5 Press ▲▼ to highlight the channel you want to block and press , which puts an "X" in the box next to that channel.

h	hannels Block					
•	$\boxtimes$	1				
		2				
	X	3				
	X	4				
		5				
	X	6				
	×	7		Allow All		
		8		Block All		
	X	9		Cancel		
v		10		Done		

- **6** Repeat step 5 for other channels you want to block.
- **7** Highlight **Done** and press **•••**.

#### To unblock individual channels:

In step 5 above, press  $\blacktriangle \lor$  to highlight the channel you want to unblock, press m to remove the "X" from the box, highlight **Done** and press m.

#### To block all channels at once:

Highlight **Block All** in step 5 on previous page and then highlight **Done** and press IP.

#### To unblock all locked channels at once:

Highlight **Allow All** in step 5 on previous page and then highlight **Done** and press III.

Ch	annel	s Bloci	(	
		1		
		2		
		3		
		4		
		5		
		6		
		7		Allow All
		8		Block All
		9		Cancel
•		10		Done

## Unlocking programs temporarily

If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

This program exceeds the rating limit you set. Push 'mute' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

#### To temporarily unlock the program:

- **1** Press  $\bigcirc^{\text{MUTE}}$ .
- 2 Enter your four-digit PIN code and press III. If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.

Locks	Active
Enter PIN code to te	emporarily unblock.
	* *
Cancel	Done

## Using the input lock feature

You can use the Input Lock feature to lock the video inputs (VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2, HDMI 1, HDMI 2, HDMI 3 and PC) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

#### To lock/unlock the video inputs:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and highlight the **Locks** menu icon.
- **2** Press  $\checkmark$  to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press 🞟.
- **4** Press  $\checkmark$  to highlight **Input Lock** and press  $\blacktriangleright$ .
- **5** Press  $\blacktriangle$  or  $\blacktriangledown$  to select the level of video input locking you prefer, as described below.

Video: Locks VIDEO 1, VIDEO 2, ColorStream HD1/ HD2, HDMI 1, HDMI 2, HDMI 3, and PC.

**Video+:** Locks VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, PC and channels 3 and 4.

Select Video+ if you play video tapes via an ANT input.

	<i>[1]</i>	6	Ŏ
Locks			
Enable Rating Blocking	Off		
Edit Rating Limits			
Channels Block			
Input Lock	Off	Off	
Front Panel Lock	Off	Video	
New PIN Code		Video +	

**Off:** Unlocks all video inputs and channels 3 and 4.

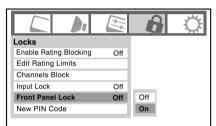
6 Press III.

## Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is **On**, none of the controls on the TV control panel will operate except **POWER**.

#### To lock the control panel:

- **1** Press  $\bigcirc^{\text{MENU}}$  and highlight the **Locks** menu icon.
- **2** Press  $\checkmark$  to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press Im.
- 4 Press ▼ to highlight Front Panel Lock.
- 5 Press ▶ and ◄ or ▶ to highlight On and press m. When the control panel is locked and any button on the control panel (except POWER) is pressed, the message "Not Available" appears.



#### To unlock the control panel:

Highlight **Off** in step 5 above, or press and hold the **VOLUME** – button on the TV control panel for about 10 seconds until the volume icon appears.

# **Using the PC settings feature**

You can view the image from a PC on the TV screen.

When the PC is connected to the TV's PC IN terminal, you can use the PC Settings feature to make adjustments to the image.

If the edges of the picture are cut off, readjust the **Horizontal Position** and **Vertical Position**. If the picture is affected by interference, readjust the **Clock Phase** and **Sampling Clock**.

#### To adjust the PC settings:

- Repeatedly press (F) to select PC input mode (137 "Selecting the video input source to view" page 35).
- **2** Press  $\bigcirc^{\text{MENU}}$  and open the **Setup** menu.
- **3** Highlight **PC Settings** and press **IDE**.

		6	Ċ
Setup			
Installation			
Sleep Timer			
PC Settings			
Power-On Mode	Power-Saving		

**Note:** If a PC is not connected or there is no pc input signal, this feature will be grayed out in the **Setup** menu.

- 4 Press  $\blacktriangle$  or  $\checkmark$  to highlight the item you want to adjust.
- **5** Press  $\blacktriangleleft$  or  $\triangleright$  to make the appropriate adjustments.

PC Settings					
Horizontal	Position	0		0	
Vertical Pos	sition	0		0	
Clock Phase		0		0	
Sampling Clock		0		0	
	Reset		Done		

*Note:* The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.

Horizontal Position:

Moves the picture left/right. The adjustment range is within  $\pm 10$  from center.\*

- Vertical Position: Moves the picture up/down. The adjustment range is within ±10 from center.\*
- Clock Phase: Helps to reduce noise and sharpen the picture.
- The adjustment range is within ±4 from center.\*
  Sampling Clock: Helps to reduce noise and minimize periodic vertical stripes on the screen.

The adjustment range is within ±5 from center.\*

\* The default settings may vary depending on the input signal format.

# **Setting the PC Audio**

This function allows you to output the sound from your PC (if connected) or mute the sound from your PC and output the sound from your HDMI (DVI) connection. (IFF page 19)

#### To set the PC Audio:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Setup and press Im.
- **3** Press  $\blacktriangle$  or  $\blacktriangledown$  to select **PC Audio** and then press  $\blacktriangleleft$  or  $\blacktriangleright$  to select **No** or **Yes**.

**Yes:** Outputs the sound from your PC. **No:** Mutes the sound from your PC, and outputs the sound from the HDMI-1 connection.

Α	Audio Setup						
	PC Audio	No ►					
	HDMI 1 Audio	Auto					
MTS		Stereo					
	Language	English					
	Optical Output Format	Dolby Digital					
	Dolby Digital Dynamic Range Control	Compressed					
	Reset	Done					

Note: Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the PC Audio menu setting influences the HDMI 1 Audio menu setting. If PC Audio is set to "No," the HDMI 1 Audio setting changes to "Auto." If PC Audio is set to "Yes," the HDMI 1 Audio setting is set to "Digital" and is grayed out in the menu. (Also see item 4 on page 11 and "Setting the HDMI™ Audio mode" on page 32.)

# Setting the sleep timer

You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

#### To set the sleep timer using the remote control:

Press  $\overset{\text{sLEEP}}{\bigcirc}$  on the remote control to set the length of time until the TV turns off. Repeatedly press  $\overset{\text{sLEEP}}{\bigcirc}$  to increase the time in 10-minute increments, or press  $\blacktriangle$  or  $\blacktriangledown$  to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

#### To set the sleep timer using the on-screen menus:

- **1** Press O and open the **Setup** menu.
- **2** Highlight **Sleep Timer** and press **E**.

	6
Setup	
Installation	
Sleep Timer	
PC Settings	
Power-On Mode Power-Saving	

**3** Press the Number buttons to enter the length of time in 10-minute increments.

Sleep Timer			
turns off autom	nutes until the TV atically (Maximum minutes)		
1 2 0			
Cancel	Done		

4 Highlight **Done** and press **E**.

**Note:** When a power failure occurs, the sleep timer setting may be cleared.

# To display the remaining sleep time: Press ${}^{\text{SLEEP}}_{\bigcirc}$ .



**Note:** A message will display on-screen when there is one minute remaining on the sleep timer.

#### To cancel the sleep timer:

Repeatedly press  $\bigcirc^{\text{SLEEP}}$  until it is set to 0 minute.

# **Displaying TV status information**

# To display TV status information using RECALL:

Press  $\bigcirc^{\text{RECALL}}$  on the remote control.

The following information will display (if applicable):

- Current input (ANT, VIDEO 1, etc.)
- If ANT is the current input, either "CABLE" (for cable TV) or "ANT" (for over-the-air broadcasts).
- Channel number (if in **ANT** mode)
- Channel label (if set)
- Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signal only)
- Stereo, Mono or SAP audio status (when HDMI input mode, Dolby Digital or PCM)
- Video resolution
- Aspect ratio (4:3 or 16:9)
- V-Chip rating status



#### To close the RECALL screen:

Press O again.

#### To display TV status information using INFO:

Press  $\bigcirc^{\text{INFO}}$  on the remote control.

The following additional information will display (if applicable):

- Title
- Duration
- Detailed description



**Note:** The location of the banner can be moved to the top or bottom of the screen by pressing  $\blacktriangle$  or  $\blacktriangledown$  while the RECALL or INFO display is on-screen. (The last position will be stored to memory.)

# Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature functions in **ANT** mode only.

# Understanding the last mode memory feature

#### If the power is cut off while you are viewing the TV, the Last Mode Memory feature automatically turns on the TV when the power is resupplied.

**Note:** You should unplug the TV's power cord if it is possible that you will be away from the TV for an extended period of time after the power is restored.

# Chapter 7: Using the TV's advanced features

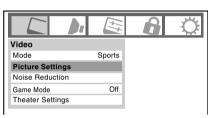
# Using the advanced picture settings features

### **Using dynamic contrast**

When dynamic contrast is set to **Low**, **Middle**, or **High**, the TV will detect changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

#### To select dynamic contrast preferences:

- **1** Press  $\stackrel{MENU}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Picture Settings and press Im.



**3** Highlight Advanced Picture Settings and press is.

Picture Settings		N	lode: Sport
Contrast	100		0
Back Light	100		0
DynaLight		On	
Brightness	50	0	
Color	50	0	
Tint	0	0	
Sharpness	50	0	
Advanced Picture	Settings		
Res	et	Done	

4 In the Dynamic Contrast field, select either Off, Low, Middle or High.

dvanced Picture Settings		Mode	: Preferer	ICE	
Dynamic Contra	st	•	Off	•	•
Static Gamma		0	0		
Color Temperatu	re		Cool		
R	eset		Done		

**5** To save the new settings, highlight **Done** and press IPP. To revert to the factory defaults, highlight **Reset** and press IPP.

**Note:** If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the dynamic contrast setting, the picture mode automatically changes to **Preference**.

### Using the static gamma feature

The static gamma feature allows you to adjust the levels of black in the picture.

#### To adjust the static gamma settings:

- **1** Press  $\overset{MENU}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Picture Settings and press m.

	[1]	6	Ŏ
Video			
Mode	Sports		
Picture Settings			
Noise Reduction			
Game Mode	Off		
Theater Settings			

**3** Highlight Advanced Picture Settings and press **•••**.

icture Setti	ngs			Mode: Sports
Contrast		100		0
Back Light		100		0
DynaLight			On	
Brightness		50		0
Color		50		0
Tint		0		0
Sharpness		50		0
Advanced P	icture Settin	igs		
	Reset		Done	

4 In the **Static Gamma** field, press ◀ or ► to adjust the static gamma.

The adjustment range is within  $\pm 5$  from center.

dvanced Picture Set	ings Mod	e: Preference
Dynamic Contrast	High	
Static Gamma	0	]
Color Temperature	Cool	
Reset	Done	

- If the setting is moved in the minus direction, the detail of black colors will be decreased.
- If the setting is moved in the plus direction, the detail of black colors will be increased.
- **5** To save the new settings, highlight **Done** and press IP. To revert the factory defaults, highlight **Reset** and press IP.

**Note:** If you select one of the factory-set picture modes (**Sports**, **Standard** or **Movie**) and then change the static gamma setting, the picture mode automatically changes to **Preference**.

## Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures (Cool, Medium, and Warm), as described below.

Mode	Picture Quality
Cool	blueish
Medium	neutral
Warm	reddish

#### To select the color temperature:

- **1** Press  $\stackrel{MENU}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Picture Settings and press m.
- **3** Highlight Advanced Picture Settings and press IPP.
- 4 Highlight Color Temperature and press **•••**.

Advanced F	victure Set	tings	Mode: Pr	eferenc
Dynamic C	ontrast		High	
Static Gam	ma	0		
Color Tem	perature		Cool	►
	Reset		Done	

5 In the Color Temperature field, select the mode you prefer (Cool, Medium, or Warm).

Color Temperature		Mode: Pre	eference
Color Temperature	•	Cool	►
B Drive	0		_
G Drive	0		_
Reset		Done	

6 Press  $\blacktriangle$  or  $\lor$  to select either **B** Drive or **G** Drive, and then press  $\blacktriangleleft$  or  $\triangleright$  to adjust the settings.

B Drive	1	
G Drive	1	

- B Drive: ▶ makes the picture blueish.
- G Drive: ▶ makes the picture greenish.

**Note:** The **B Drive** and **G Drive** settings are connected to the **Color Temperature** settings and will change based on which setting is selected in step 5 above.

7 To save the new settings, highlight **Done** and press IPP. To revert to the factory defaults, highlight **Reset** and press IPP.

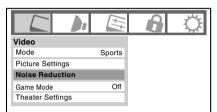
**Note:** If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the color temperature mode, the picture mode automatically changes to **Preference**.

## Using CableClear® digital noise reduction

The CableClear<sup>®</sup> digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

#### To change the CableClear settings:

- **1** Press  $\overset{\text{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Noise Reduction and press m.



**3** In the **CableClear** field, select your desired setting.

Ν	oise Redu	ction			ANT
	CableClear	r	•	Auto	►
	MPEG Nois	e Reduction		Low	
		Reset		Done	

#### Note:

- If the current input is ANT, VIDEO 1, or VIDEO 2, the menu will display the text "CableClear." The available selections are Off, Auto, Low, Middle, and High.
- If the current input is ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, or HDMI 3 the menu will display the text "DNR." The available selections are Off, Auto, Low, Middle, and High. Auto will react proportionally to the strength of the noise. Low, Middle, and High will reduce the noise in varying degrees, from lowest to highest, respectively.
- 4 To save the new settings, highlight **Done** and press IP. To revert to the factory defaults, highlight **Reset** and press IP.

### **Using MPEG noise reduction**

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are **Off**, **Low**, **Middle**, and **High**. **Off** is automatically selected when this feature is disabled ("grayed out").

#### To select the MPEG noise reduction level:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Noise Reduction and press in.
- 3 Press ▲ or ▼ to highlight the MPEG Noise Reduction field, and then press ◀ or ► to select either Off, Low, Middle or High.

N	loise Redu	ction			ANT
	CableClear			Auto	
	MPEG Nois	e Reduction	•	Low	►
		Reset		Done	

4 To save the new settings, highlight **Done** and press I To revert to the factory defaults, highlight **Reset** and press I.

### **Using the Game Mode feature**

You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).

This feature is more effective for 480i and 1080i input signals.

**Note:** To use the Game Mode feature, the current video input must be **Video 1**, **Video 2**, **ColorStream HD1**, **ColorStream HD2**, **HDMI 1**, **HDMI 2**, or **HDMI 3**. The Game Mode cannot be turned on when any other video input is selected.

#### To turn on Game Mode:

- **1** Press  $\bigcirc^{\text{MENU}}$  and open the **Video** menu.
- **2** Press  $\blacktriangle$  or  $\lor$  to highlight the **Game Mode** field, and then press  $\blacktriangleleft$  or  $\triangleright$  to select **On**.

	[‡‡	6	Ŏ
Video			
Mode	Sports		
Picture Settings			
Noise Reduction			
Game Mode	Off	Off	
Theater Settings		On	

#### To turn off Game Mode:

Select **Off** in step 2 above, change the video input, or turn the TV off and then on again.

**Note:** You can change the video input by pressing imp on the remote control (imp page 35).

# Using the advanced audio settings features

# Using the SRS WOW $^{\rm m}$ surround sound feature

SRS WOW<sup>™</sup> is a special combination of SRS Labs audio technologies (SRS 3D, SRS Focus, and SRS TruBass) that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

#### To adjust the WOW<sup>™</sup> settings:

- 1 Put the TV in **STEREO** mode (**r** ≈ "Selecting stereo/SAP broadcasts" on page 45).
- **2** Press  $\overset{MENU}{\bigcirc}$  and open the **Audio** menu.
- **3** Highlight Advanced Audio Settings and press **•••**.
- 4 Press  $\checkmark$  or  $\blacktriangle$  to highlight the WOW feature you want to adjust, and then press  $\triangleleft$  or  $\triangleright$  to adjust the item.

Advanced Audio Settings				
WOW: SRS 3D			Off	
WOW: SRS Foc	us		Off	
WOW: SRS Tru	Bass		Low	
F	Reset		Done	

• WOW: SRS 3D — To turn the surround sound effect **On** or **Off**.

**Note:** If the broadcast is monaural, the SRS 3D effect will not work.

- WOW: SRS Focus To turn the vocal emphasis effect **On** or **Off**.
- WOW: SRS TruBass To select the desired bass expansion level (**Off, Low**, or **High**).
- 5 To save the new settings, highlight **Done** and press IP. To revert to the factory defaults, highlight **Reset** and press IP.

WOW, SRS and (•) symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

# **Chapter 8: Troubleshooting**

# **General troubleshooting**

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

#### **Black box on-screen**

• The closed caption feature is set to one of the Text modes (**T1**, **T2**, **T3**, or **T4**). Set the closed caption feature to **Off** (**IS** page 43).

#### TV stops responding to controls

• If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the **POWER** button on the TV control panel for 5 or more seconds to reset the TV.

#### **Other problems**

• If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (respage 33).

#### TV will not turn on

- Make sure the power cord is plugged in, and then press
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.

#### **Picture problems**

#### General picture problems

- Check the antenna/cable connections (I Chapter 2).
- Press (PD) on the remote control or TV and select a valid video input source (PD) page 35). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (1) page 42).
- If you are using a VCR, make sure two on the remote control is set correctly (r page 22).
- Do not connect both a standard video cable and an S-video cable to the VIDEO 1 input at the same time (INF page 14).

#### Noisy picture

• If you are watching an analog channel (off-air broadcast or Cable TV), you can set the **CableClear®/DNR** feature to **AUTO** to reduce visible interference in the TV picture (ISP page 55).

#### Video Input Selection problems

• If the **Input Selection** window does not appear when you press (PP) on the remote control or TV, press (PP) a second time, which will change to the next video input source and display the **Input Selection** window.

#### Cannot view external signals or channel 3 or 4

 If you cannot view signals from external devices connected to VIDEO 1, VIDEO 2, or ColorStream<sup>®</sup>, or from channels 3 or 4, make sure the Input Lock is set to Off (ISP page 50).

#### Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (I page 42).

#### Poor composite or S-video picture

• If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using a **ColorStream** or **HDMI** video connection instead.

#### Picture and sound are out of sync

- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g., television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
  - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
  - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

#### LED indications while in reboot from standby

• When you plug the power cord in, the yellow LED will blink until the TV enters standby mode, (plugged in but not powered on). This is normal and is not a sign of malfunction.

#### **Sound problems**

- Check the antenna/cable connections (r Chapter 2).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press VOLUME.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (**r** page 45).
- If you are not receiving a second audio program from a known SAP source, make sure the MTS feature is set to SAP mode (Inst page 45).
- If you hear audio that seems "incorrect" for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the **MTS** feature to **Stereo** mode (**r** page 45).

#### **Remote control problems**

- Make sure the remote control is set to the correct device mode (1) page 21).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (12) page 20).

- Your TV remote control may not operate certain features on your external device. Refer to the owner's manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (ING) pages 22–26).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (1) page 33).

#### **Channel tuning problems**

- Make sure the remote control is set to the correct device mode (respage 21).
- The channel may have been erased from the channel memory by the **Channel Add/Delete** feature. Add the channel to the channel memory (**r** page 30).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel (15) page 49).
- If you are unable to tune digital channels, check the antenna configuration (1287 page 29). If you are still unable to tune digital channels, clear all channels from the channel list (1287 page 31) and reprogram channels into the channel memory (1287 page 30). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (1287 page 33). Also see "TV stops responding to controls" and "Other problems" (1287 page 58).

#### **Closed caption problems**

- If the program or video you selected is not closedcaptioned, no captions will display (12) page 43).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (IFS) page 43).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (IST page 43).

#### **Rating blocking (V-Chip) problems**

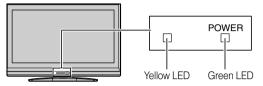
- If you forget your PIN code: While the PIN code entering screen is displayed, press Content four times within 5 seconds. The PIN code you previously stored will be cleared (ING) page 47).
- The V-Chip feature is available for the U.S. V-Chip system only (1) page 48).

# **LED** indications

The green and yellow LED lights on the TV front indicate the TV's status, as described below.

**Note:** If the TV loses A/C power (e.g., a power outage occurs or the power cord is unplugged), when power is restored, the yellow LED will blink while the TV is booting until the remote control is usable. This is normal and is not a sign of malfunction.

TV front



LED Indication	Condition	Solution
1) Green is ON (solid).	The TV is operating properly.	-
2) Yellow is ON (solid).	Standby with Power-On Mode set to Fast.	See "Selecting the Power-On Mode" (🖙 page 34).
<ol> <li>Yellow blinks three times.</li> </ol>	TV is powering up.	Wait several seconds until the yellow LED stops blinking.
4) Green blinks slowly.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord.
<ol><li>Green blinks quickly.</li></ol>	Power protect detection.	Plug the power cord in again and turn ON the TV.

If, after trying the solutions, the problem still exists:

• In the U.S., call TACP Consumer Solutions at 1-800-631-3811.

• In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to **www.toshiba.ca**; click "Home Entertainment," and then click "Support."

# **Chapter 9: Appendix**

# **Specifications**

#### Note:

- This model complies with the specifications listed below.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

#### **Television System**

NTSC standard ATSC standard (8VSB) Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted)

#### **Channel Coverage**

VHF: 2 through 13 UHF: 14 through 69 Cable TV: Mid band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 135)

#### **Power Source**

120 V AC, 60 Hz

#### **Power Consumption**

26HL67:	74 W (average)
	0.5 W in standby mode
32HL67:	101 W (average)
	0.5 W in standby mode
37HL67:	116 W (average)
	0.5 W in standby mode
42HL67:	161 W (average)
	0.6 W in standby mode

#### **Audio Power**

10 W + 10 W

#### **Speaker Type**

Two  $2-3/8 \times 4-3/4$  inches (6 × 12 cm)

#### Video/Audio Terminals

#### **S-VIDEO INPUT:**

Y: 1 V(p-p), 75 ohm, negative sync. C: 0.286 V(p-p) (burst signal), 75 ohm

#### **VIDEO/AUDIO INPUT:**

VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohm or greater)

#### ColorStream® (component video) HD INPUT:

VIDEO:Y: 1V(p-p), 75 ohm PR: 0.7 V(p-p), 75 ohm PB: 0.7 V(p-p), 75 ohm Suggested formats: 1080i, 720p, 480p, 480i AUDIO: 150 mV(rms), 22 k ohm or greater

#### HDMI<sup>TM</sup> INPUT:

HDMI compliant (type A connector) HDCP compliant E-EDID\* compliant Suggested formats: 1080p, 1080i, 720p, 480p, 480i, VGA

HDMI Audio: 2-channel L-PCM; 32/44.1/48 kHz sampling frequency; 16/20/24 bits per sample

#### FIXED AUDIO OUTPUT:

150 mv (rms) (30% modulation equivalent, 2.2 k ohm or less)

#### **DIGITAL AUDIO OUTPUT:**

#### Optical type

#### PC INPUT:

15-Pin D-sub Analog RGB

Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	В	11	NC
4	NC (Not connected)	12	NC
5	NC	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

#### Dimensions

26HL67:	Width: 26-1/4 inches (666 mm)
	Height: 20-1/4 inches (514 mm)
	Depth: 9-1/2 inches (241 mm)
32HL67:	Width: 31-1/2 inches (800 mm)
	Height: 23-3/8 inches (592 mm)
	Depth: 11-1/4 inches (285 mm)
37HL67:	Width: 36-1/4 inches (920 mm)
	Height: 26-1/8 inches (661 mm)
	Depth: 11-1/4 inches (285 mm)
42HL67:	Width: 40-1/2 inches (1,027mm)
	Height: 28-5/8 inches (724 mm)
	Depth: 13-1/4 inches (335 mm)

#### Weight

26HL67:	28.7 lbs (13.0 kg)
32HL67:	38.6 lbs (17.5 kg)
37HL67:	46.3 lbs (21.0 kg)
42HL67:	59.5 lbs (27.0 kg)

#### **Operating conditions**

Temperature: 32°F - 95°F (0°C - 35°C) Humidity: 20 - 80% (no moisture condensation)

#### Supplied Accessories

- · Remote control with two size "AAA" batteries
- Owner's manual (this book)
- Lead clip Use this clip to attach the TV to a wall, pillar, or other immovable structure. See item 20 on page 3.

<sup>\*</sup> E-EDID = Enhanced-Extended Display Identification

# **Limited United States Warranty**

#### for LCD Televisions 26" and Larger

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. LCD TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

LCD TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

#### Limited One (1) Year Warranty on Parts and Labor

TACP warrants this LCD Television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the LCD Television will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

#### **Rental Units**

The warranty for LCD Television rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

#### Limited Warranty for Commercial Units

TACP warrants LCD Televisions that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

#### **Owner's Manual and Product Registration Card**

Read this owner's manual thoroughly before operating this LCD Television.

Complete and mail the enclosed product registration card or register your LCD Television online at **www.tacp.toshiba.com/service** as soon as possible. By registering your LCD Television you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. **Failure to complete and return the product registration card does not diminish your warranty rights.** 

#### Your Responsibility

# THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- You must retain your original bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this LCD Television must be performed by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if this LCD Television is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable

television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

#### How to Obtain Warranty Service

If, after following all of the operating instructions in this manual and reviewing the section entitled "Troubleshooting," you find that service is needed:

- (1) To find the nearest TACP Authorized Service Station, visit TACP's website at www.tacp.toshiba.com/service or contact TACP's Consumer Solution Center toll free at 1-800-575-5469.
- (2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

#### For additional information, visit TACP's website: www.tacp.toshiba.com

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

# **Limited Canada Warranty**

#### for LCD Televisions

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND FLAT PANEL TELEVISION (the "TELEVISION(S)" or "Television(S)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. TELEVISIONS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT

COVERED BY THESE WARRANTIES.

TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

#### Limited One (1) Year Warranty on Parts and Labour

Subject to the more limited warranty if the Television is used for any commercial or business Subject to the more infined warranty in the relevision is used to any continence on business purposes as set out below, TCL warrants the Television and its parts against material defects in materials or workmanship that result in the Television failing for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR.

#### FOR TELEVISIONS 32 INCHES OR LESS: a)

YOU MUST DELIVER THE ENTIRE TELEVISION TO A TCL TELEVISION AUTHORIZED SERVICE PROVIDER ("ASP"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

#### FOR TELEVISIONS OVER 32 INCHES: b)

During this period, ASP personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the Television will be taken to an ASP for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PALY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

#### Limited Warranty for Commercial Units

TCL warrants Televisions that are used for any commercial or business purposes as follows: all The warranted against material defects in materials or workmanship that result in the parts are warranted against material defects in materials or workmanship that result in the Television failing for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

FOR TELEVISIONS 32 INCHES OR LESS: c)

YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP

#### d) FOR TELEVISIONS OVER OVER 32 INCHES:

During this period, ASP personnel will come on-site when warranty service is required. Depending on the type of repair required, the service will entitler be performed on-site or the Television will be taken to an ASP for repair and returned at no cost to you. ON-SITE SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

#### Rental Units

The warranty for Television rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

#### Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- You must provide your bill of sale or other proof of purchase
- All warranty servicing of this Television must be performed by an ASP. The warranties from TCL are effective only if the Television is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("**ADR**'s") and (ii) hereited (reserved in Coard)
- and (ii) located/operated in Canada. Labour charges for set installation, setup, adjustment of customer controls, and installation (4)or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility
- (5) Warranties extend only to material defects in materials or workmanship as limited above and do not extend to:
  - d do not extend to: Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, screen burn or image retention caused by prolonged display of static images and/or phosphor aging, or any other external cause or event, act or omission outside the control of TCL, including fire, thefit, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Television; a.
  - Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive b. maintenance:
  - c. Repair of damage that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;
  - Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty); d.
  - Service on third party products or service made necessary by use of incompatible third e. party products; Service made necessary by the simultaneous use of this Television and connected f
  - eauipment:

  - equipment;
    Modifications to the Television not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the Television;
    h. Service of a Television on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
    On-site service and repair of the Television; and
    j. Damage to the Television caused by failure to follow the specifications, User manuals or middee at the necessary of the manual series of the television.

  - guides as to usage and/or storage.

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ADVENTISEMENT, POINT OF SALE DISPLAY, ET C.). YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE APPLICABLE USER GUIDES AND/OR MANUALS. IF YOU FAIL TO DO SO, THIS TELEVISION MAY NOT FUNCTION PROPERLY AND YOU MAY SUFFER DAMAGE. THIS WARRANTY WILL NOT COVER ANY SERVICE THAT IS REQUIRED. IN PART OR IN WHOLE, AS A RESULT OF ANY FAILURE TO FOLLOW THE SET-UP AND USAGE INSTRUCTIONS. THIS WARRANTY DOES NOT APPLY AND SHALL BE VOID AND UNENFORCEABLE IF THE TELEVISION IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE TELEVISION.

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No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever.

#### Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the Television; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the Television; (iv) the relationships that result from this warranty, (the material relating to the Television; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other nesson may be joined or combined with any Dispute by without disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

#### Critical Applications

The Television you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where Television failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE TELEVISION IN ANY CRITICAL APPLICATION, THE CUSTOMER - AND NOT TCL, ITS AFFILIATES, ADRs OR ASPs - ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY TELEVISION USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRs AND ASPS HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH TELEVISION AND FURTHER DISCLAIM ANY AND ALL LIABILITY. CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE TELEVISION IN ANY CRITICAL APPLICATIONS.

#### General Provisions

If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty shall be and remain valid for the warranty was the severe of the warranty shall be and remain valid to form part of the warranty. and enforceable. If and the extentiant any provision of this limited warance as it relates to any of the Related Party"), the Excluded Party shall be deemed to be severed or excluded from the provision and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Television or in any other document enclosed with, or used in the context of the promotion or sale of, the Television, on the other hand, the provisions of this limited warranty shall prevail.

#### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- To find the nearest ASP, visit TCL's web site at www.toshiba.ca, or call toll free 1 800 268-(1)3404
- (2) Present your bill of sale or other proof of purchase to the ASP

For additional information, visit TCL's website at www.toshiba.ca

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# Index

### A

Antenna cable	12
Antenna input configuration	29
Audio quality adjustments	45
Audio system connection	18
Auto aspect	41
Auto power off	53

#### В

Back of the TV 11	
Base closed captions 43	3
Blocking channels 49	9

### С

•
Cable box connection14
CableClear® 55
Camcorder connection16
CH ▲▼ buttons21, 38
CH RTN button21, 38
Channel Browser Setup 36
Channel Browser™
Channel labeling
Channel Number buttons21, 38
Channel programming Automatic programming
Cinema mode41
Closed captions43
Color temperature55
ColorStream®15
Component video 15
Component video cables 12
Connecting Cables 12

#### D

Digital Audio Out 18
Digital audio selector 44
Digital CC Settings 43
Digital signal meter 33
Dolby Digital 18
Dolby Digital Dynamic Range
Control46
DVD player connection 15
DVI connection 17
DynaLight™
Dynamic contrast54
F

Features, TV8
Front of the TV 10

### G

### Η

HDMI audio mode	32
HDMI cable	12
HDMI <sup>™</sup> connection	17
I	
INFO button	53
INPUT button	35
Installation, care, and service	3
Installation, setup	9
Integrated digital tuning	8
L	

#### 

### Μ

MPEG noise reduction	56
MTS feature	45
MUTE button	44

### 0

Optical audio cable	12
Optical audio output format	46

### Ρ

PC Audio	
PC connection	19
PC settings	51
Picture adjustment	42
Picture mode	
Picture quality	
Picture scroll	40
Picture size selection	
POWER button	10, 21
Power-On Mode	

### R

RECALL button	53
Remote control	
Battery installation	20
Device code table	25
Effective range	20
Functional key chart	23
Learning about the buttons	21
Programming	24
Reset Factory Defaults	33

### S

Safety	2
SAP sound	45
Satellite receiver connection	15
Scroll settings	40
Selecting Menu Language	29
Service	4
Side panel control	10
Sleep timer	52
Specifications	61
StableSound <sup>®</sup>	46
Stereo sound	45
SurfLock <sup>™</sup>	38
S-video cable	12
System status	33
_	

### Т

TheaterWide® picture size	.39
Troubleshooting	.58
TV status information	.53

### V

V-Chip blocking (Locks menu)	.47
VCR connection 13, 14,	15
Video cables	.12
Video input label	.35
Video input lock	.50

### W

Warranty	
Canada	63
U.S	62
WOW:SRS 3D	57
WOW:SRS Focus	57
WOW:SRS TruBass	57

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