# **TOSHIBA**

Leading Innovation >>>

# **Owner's Manual**

# **Integrated High Definition LCD** Television

COLOR STREAM® HD



DIGITAL HOMI COTV

# 40XV640U 46XV640U

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 RISK OF ELECTRIC SHOCK DO NOT



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.



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 23 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" (EST page 5).

# **NOTE TO CATY 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 30 and 31 on page 4.

# **CHILD SAFETY:**

It Makes A Difference How and Where You Use Your Flat Panel Display

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

#### The Issue

• The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.

Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

## **TOSHIBA Cares!**

 The consumer electronics industry is committed to making home entertainment enjoyable and safe.

## **Tune Into Safety**

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

# Wall Mounting: If you decide to wall mount your flat panel display, always:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.



www.CE.org/safety

# **Important Safety Instructions**

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 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.
- 10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- 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.

## 17) WARNING:

NEVER expose batteries to excessive heat such as sunshine, fire, or the like.

# **Installation, Care, and Service**

#### Installation

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

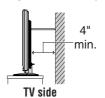
- 18) ALWAYS plug the product into an outlet that is located in such a manner that it can be easily unplugged in case the product requires service.
- NEVER route the product's power cord inside a wall or similar enclosed area.
- 20) Never modify this equipment. Changes or modifications may void: a) the 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!

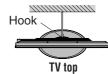


Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

- 22) 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.
- 23) 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 strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.



Sturdy strap (as short as possible)



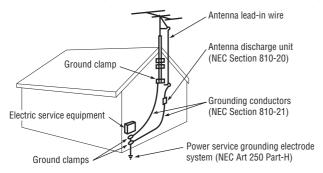
- 24) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 25) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
  - on a bed, sofa, rug, or similar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



(continued)

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 4 (four) inches around the TV.

- 26) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.
- 27) 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
- 28) Never overload wall outlets and extension cords.
- Always operate this equipment from a 120 VAC, 60 Hz power source only.
- 30) 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).



31)



# 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:

- 32) 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.
- 33) 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.

34)



#### WARNING: RISK OF ELECTRIC SHOCK!



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

- 35) While it is thundering, do not touch the connecting cables or apparatus.
- 36) 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.
- 37) ALWAYS unplug the TV to completely disconnect from mains power. When the TV is turned off using the on/off switch, it is not completely disconnected from power and a minute amount of current is still consumed.

38)

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

©),, (©)///

Never strike the screen with a sharp or heavy object.

- 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 33 on this page.

## **Service**

40)

#### 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.

- 41) 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.
- 42) 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) Read and Follow the pedestal assembly instructions included with the pedestal.

**CAUTION:** Before beginning pedestal assembly, carefully lay the front of the LCD Panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble the pedestal as indicated below.

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

- Place the TV on a sturdy, level surface that can support the weight of the TV.
- 3) Be sure to secure the TV to a wall, pillar, surface, or other immovable structure. (1287 item 23, page 3).

# To Display your LCD TV using a Wall Bracket:

If you decide to wall mount your LCD TV, always use a UL listed wall bracket appropriate for the size and weight of the LCD TV (1287 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) Remove the screws of the VESA Mounting Pattern show in the right diagram.
- 4) 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.
- 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.
- 6) VESA Mounting Pattern

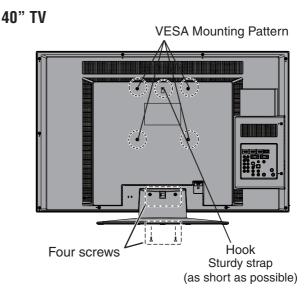
TV Size	Hole Pattern(HxV)	Screw Size
40"	200x200 mm	M6
46"	400x200 mm	M8
		(unit in mm)

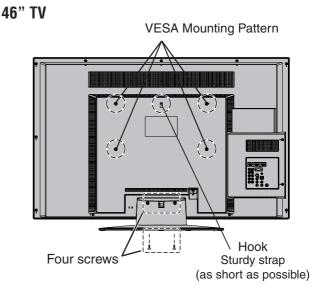
## **Removing the Pedestal Stand**

 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 four screws shown in the right diagram. This will allow removal of the pedestal stand.
- 3) Once you have removed all four screws holding the pedestal stand in place, remove the pedestal stand from the TV.





**CAUTION:** 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 strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.

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

The **Toshiba 40XV640U**, and **46XV640U 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.

# **ENERGY STAR® User Information**

ENERGY STAR User Information Statement: the factory default settings of this television meet ENERGY STAR requirements. Changing Picture Settings may increase energy consumption, possibly beyond the limits required for ENERGY STAR qualification.

To ensure your television is operating at optimal energy efficiency, select [Home] mode during initial activation. To return to [Home] mode settings, select [Standard] picture mode. [Standard] mode is recommended for normal home use.



ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict guidelines set by the U.S. Environmental Protection Agency. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

# 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.

- 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

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

# **Contents**

Importa	nt Safety Instructions	. 3
Installa	tion, Care, and Service	. 3
Chapter	1: Introduction	. 8
	Features of your new TV	
	Overview of steps for installing, setting up, and using your new TV	
	TV front and side panel controls and connections	
	TV back panel connections	11
Chapter	2: Connectin0.5g your TV	12
	Overview of cable types	
	About the connection illustrations	
	Connecting a VCR ( or a VCR with S-video) and	
	antenna, Cable TV or Camcorder	13
	Connecting a DVD player with ColorStream® (component	
	video), a VCR, and a satellite receiver	14
	Connecting an HDMITM or DVI device to the HDMI input	
	REGZA-LINK® connection	
	Connecting a digital audio system	
	Connecting an audio system	
	Connecting a personal computer (PC)	
	3: Using the remote control	
	Preparing the remote control for use	
	Installing the remote control batteries	
	Remote control effective range	
	Learning about the remote control	
	Using the remote control to control your other devices	
	Remote Control functional key chart	22
	Programming the remote control to control your	22
	other devices	
	Remote control codes	
	4: Menu layout and navigation	
	Main menu layout	
	Setup/Installation menu layout	
	Navigating the menu system	27
Chapter	5: Setting up your TV	28
	Setting the Energy Saving Mode	
	Selecting the menu language	
	TOSHIBA Logo LED	28
	Configuring the antenna input source for the ANT/CABLE terminal	
	Programming channels into the TV's channel memory	
	Programming channels automatically	
	Manually adding and deleting channels in the channel	20
	memory	
	Labeling channels	
	Viewing the digital signal meter	
	Setting the time zone	
	Viewing the system status	
	6: Using the TV's features	
	Selecting the video input source to view	
	Labeling the video input sources	
	Tuning channels  Tuning channels using the Channel Browser <sup>TM</sup>	24
	Setting the Channel Tuning Mode	
	Tuning to the next programmed channel	
	Tuning to the next programmed channel  Tuning to a specific channel (programmed or	50
	unprogrammed)	36
	Switching between two channels using	- 0
	Channel Return	37
	Switching between two channels using SurfLock <sup>TM</sup>	
	Selecting the picture size	
	(TheaterWide 2 and 3 only)	

Using the auto aspect ratio feature	
Using the FREEZE feature	
Adjusting the picture	
Adjusting the picture quality	
Using the closed caption mode	
Base closed captions	41
Digital CC Settings	
CC Selector	
Adjusting the audio	
Muting the sound	42 42
Selecting stereo/SAP broadcasts	
Adjusting the audio quality	
Selecting the optical audio output format	
Using the Dolby® 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	44
(V-Chip)	44
Downloading an additional rating system for	
blocking TV programs and movies	45
Blocking channels	
Unlocking programs temporarily	
Using the input lock feature	
Using the GameTimer® Using the control panel lock feature	
Using the PC settings feature	
Setting the PC Audio	
Setting the sleep timer	
Using REGZA-LINK®	
REGZA-LINK® playback device	
(DVD player, etc.) control	
REGZA-LINK® input source selection VOLUME and MUTE controls of Audio Receiver	
Other REGZA-LINK® functions	
Displaying TV status information	
Understanding the auto power off feature	
Understanding the last mode memory feature	
Chapter 7: Using the TV's advanced features	. 51
Using the advanced picture settings features	
Using dynamic contrast	
Using the static gamma feature	51
Selecting the color temperature	
Selecting the cinema mode	
Using the ClearFrame <sup>TM</sup> feature	
Using the Film Stabilization feature Using CableClear® digital noise reduction	
Using MPEG noise reduction	
Using the Game Mode feature	
Using the advanced audio settings features	53
Using the QSound® sound feature	53
Chapter 8: Troubleshooting	. 54
General troubleshooting	
Chapter 9: Appendix	
Specifications	
Acceptable signal formats for PC IN and HDMI terminals	
Limited United States Warranty for LCD Televisions 26"	
and Larger	58
Limited Canadian Warranty for Toshiba Brand Flat Panel	
Televisions	. 59

# **Chapter 1: Introduction**

# **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).
- 1080p output resolution.
- Three HDMI<sup>™</sup> digital, high-definition multimedia interfaces 1080p input support (
  page 15).
- HDMI new capability
   Lip-Sync Latency activates an audio/video display timing adjustment function that allows HDMI source devices to accurately perform synchronization automatically.
- Two sets of ColorStream® HD high-resolution component video inputs (🖙 page 14).
- **QSound®** audio technologies (☞ page 52).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (page 43).
- CableClear® digital picture noise reduction (1287 page 51).
- PC IN (Analog RGB) computer terminal (1287 page 18).
- 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 (page 30).
- **REGZA-LINK** allows control of external devices from the TV remote via HDMI connection ( page 48).

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

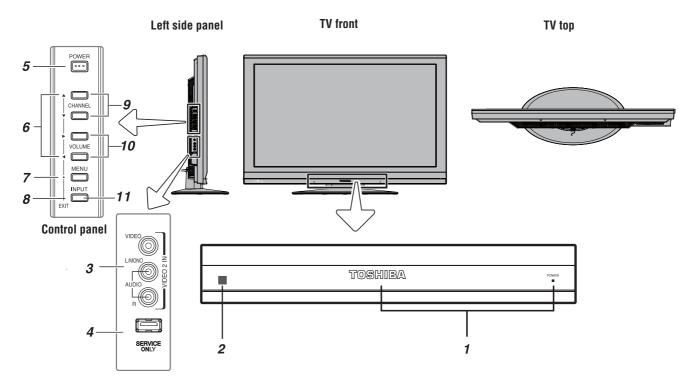
Follow these steps to set up your TV and begin using its many exciting features.

- 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" (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 (propage 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 (pages 10–11).
- 5 Connect your other electronic device(s) to the TV (r pages 12–18).
- **6** Install the batteries in the remote control (respage 19).
- **7** See "Learning about the remote control" (Respage 20) for an overview of the buttons on the remote control.
- **8** Program the remote control to operate your other device(s) (respages 21–25).
- 9 AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. Then 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, please unplug the power cords few seconds then re-plug to try again.
- **10** See "Menu layout and navigation" for a quick overview of navigating the TV's menu system (☞ page 26).
- 11 Program channels into the TV's channel memory (☞ page 29).

- **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 40XV640U is used in this manual for illustration purposes.



- 1 Green LED and TOSHIBA Logo LED

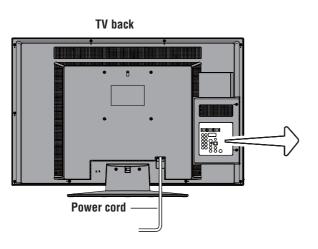
  Power LED(Green) = Power indicator

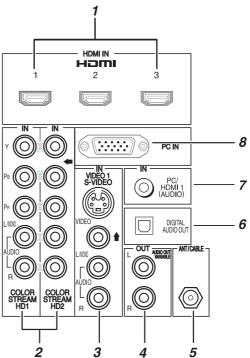
  TOSHIBA Logo LED= On or Off (№ page 28).
- 2 Remote sensor Point the remote control toward this remote sensor ( "Remote control effective range" on page 19).
- **3 VIDEO-2 IN** The side panel A/V connections are referred to as "**VIDEO 2**" and include standard A/V connections.
- **Service port** For service use only. Used for updating the television's firmware.
- 5 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.

- **6 ARROWS** ▲ ▼ ◆ ► When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.
- 7 MENU (ENTER) Press to access the menu system (pages 26–27). When a menu is on-screen, the MENU button on the TV's control panel functions as the ENTER button.
- **8 EXIT** Press to instantly close an on-screen menu.
- 9 **CHANNEL** ▲ ▼ When no menu is on-screen, these buttons change the channel (programmed channels only; page 29).
- **10 VOLUME →** These buttons adjust the volume level.
- 11 INPUT Repeatedly press to change the source you are viewing (ANT/CABLE, 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 12–18.





- 1 HDMI™ 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 3. HDMI connection is necessary to receive 1080p signals.
- 2 ColorStream® HD-1 and ColorStream® HD-2 Two sets of ColorStream® 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®.

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

**3 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.

4 Audio OUT Variable — Analog audio outputs for connecting an audio amplifier.

- **5 ANT/CABLE** Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.
- **6 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.
- 7 **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 (page 48).
- **8 PC IN** For use when connecting a personal computer.

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 trademarks of Dolby Laboratories.

# Chapter 2: Connecting your TV

# **Overview of cable types**

Cables can be purchased from most stores that sell audio/ video devices. Before purchasing any cables, be sure of connector types required by your devices and the length of each cable.

# 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/ **CABLE** 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™ cable (with HDMI Logo "H□mi")



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 (repage 15 and page 18).

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

# **Optical audio cable**

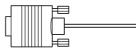




Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV's DIGITAL AUDIO OUT terminal ( page 17).

# Analog RGB (15-pin) computer cable



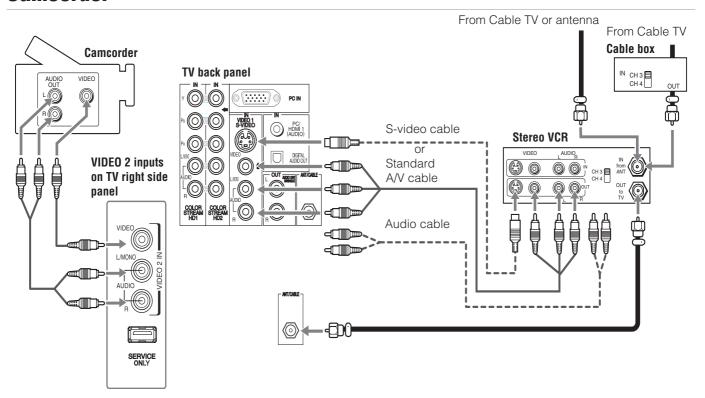


Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (page 18).

# **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 ( or a VCR with S-video) and antenna, Cable TV or Camcorder



#### 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.
  - 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 side instead of the VIDEO 2 on the TV side panel.
  - 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.
- S-video cable (if your VCR or camcorder has S-video)
  - 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 or camcorder has S-video)

**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 the antenna or Cable signal:

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

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

Turn OFF the VCR. Select the **ANT/CABLE** 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 view the camcorder video:

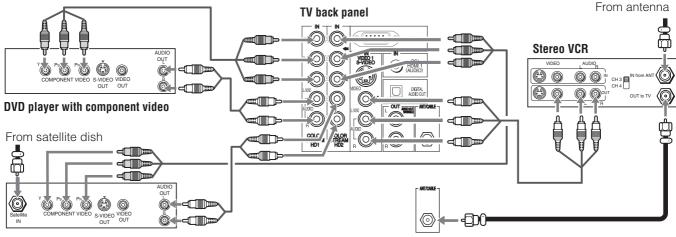
Select the VIDEO 2 video input source on the TV.\*

\* To select the video input source, press **INPUT** on the remote control (\*\*) page 20). 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.



Satellite receiver with component video

### 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 (1080p is not supported).
  - 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 15.

### To view antenna or Cable channels:

Select the ANT/CABLE 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 (☞ page 20). 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 an HDMI™ 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-D-compliant<sup>[1]</sup> consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

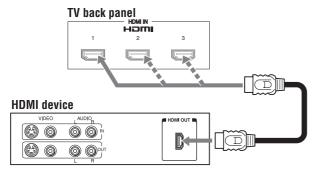
The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz) and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 56.

Supported Audio format: Linear PCM, sampling rate 32/44.1/48 kHz

Note: To connect a PC to the HDMI input, see page 18.

# 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 (Harma).
  - To display an 1080i/60Hz signal format, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly.
  - HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).
  - See "Setting the HDMI™ audio mode" (☞ page 31).



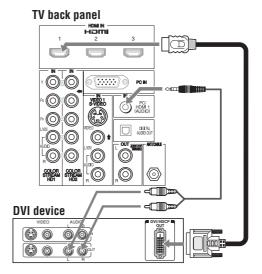
## To view the HDMI device video:

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

\* To select the video input source, press **INPUT** on the remote control (respage 20). To program the TV remote control to operate other devices, see Chapter 3.

# 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" (
     page 31).



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

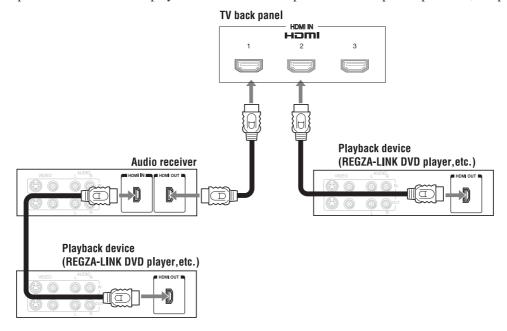
- When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.

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<sup>[1]</sup> EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the

# **REGZA-LINK®** connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see page 48.



# To connect an Audio Receiver and Playback Devices, you will need:

• HDMI cables (rs page 15)

Note:

- If several devices are connected, REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo ( HDMI ).

### Before controlling the device(s):

- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (page 49).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses the CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual instruction manuals for compatibility information.

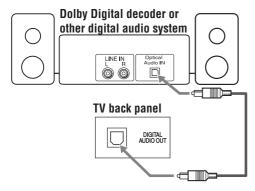
**Note:** This feature may not work properly depending on the devices that are connected.

# **Connecting a digital audio system**

The TV's **DIGITAL AUDIO OUT** terminal outputs a Dolby®\* Digital DOLDSY or 2-channel down-mixed PCM (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

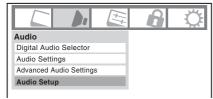
#### You will need:

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

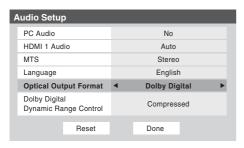


## To control the audio:

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



4 In the Optical Output Format field, select either Dolby Digital or PCM, depending on your device (\*\*S\*"Selecting the optical audio output format" on page 43).



### 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

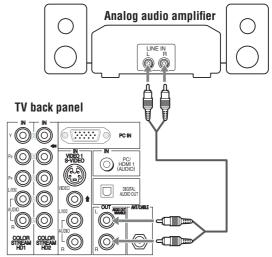
- damage speakers or headphones. THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.
- The DIGITAL AUDIO OUT terminal may not output some digital audio sources because of copy restrictions.
- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

# **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:

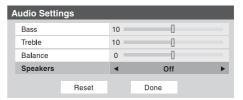
· standard audio cables



## To control the audio:

- **1** Turn on the TV and the stereo amplifier.
- 2 Set up a optimum volume level of the stereo amplifier. Then you can adjust the sound volume level from the TV's volume control or the amplifier's volume control.
- **3** Menu item of Speakers can turn to OFF to mute the TV's built in speakers.





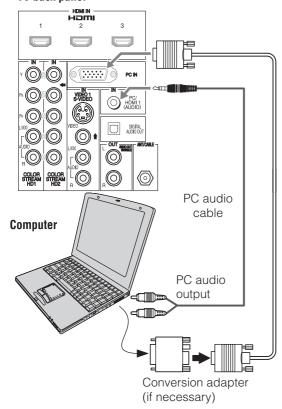
# Connecting a personal computer (PC)

With either the PC IN or HDMI connection, you can watch your computer's display on the TV and hear the sound from the TV's speakers.

#### 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.

## TV back panel



- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The PC IN terminal can accept and display VGA, SVGA, XGA, WXGA and SXGA signal formats. For detailed signal specifications (1887 page 56).
  - Other formats or non-standard signals will not be displayed correctly
- To display the optimum picture, use the PC setting feature (See "Using the PC settings feature" on page 47).

#### Note:

- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a compatible mini D-sub15-pin terminal.

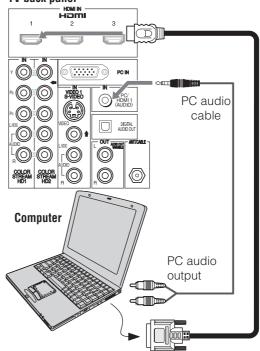
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- Signal names for mini D-sub 15-pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	Reserved
2	G	7	Ground	12	SDA
3	В	8	Ground	13	H-sync
4	Reserved	9	5V	14	V-sync
5	Reserved	10	Ground	15	SCL

#### 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 (1837 page 15).

#### TV back panel



The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 56.

#### Note:

- The edges of the images may be hidden.
- If receiving a 480i (HDMI), 480p (HDMI), 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen

# Chapter 3: Using the remote control

# 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:

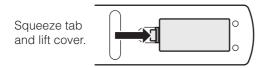
Your TV remote control is preprogrammed to operate most Toshiba devices (1887 page 23).

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

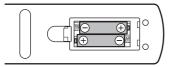
You can program the TV remote control so it will operate the other device (№ pages 21–25).

# Installing the remote control batteries

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



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:** Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

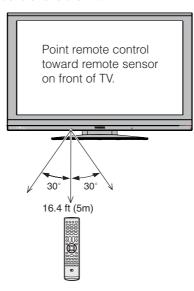
#### Note:

- 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.

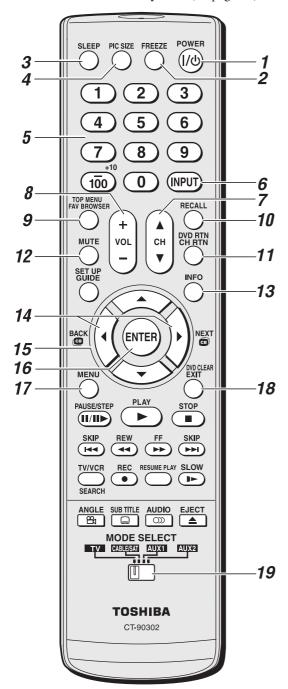
# **Remote control effective range**

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 (1287 page 22).



**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 FREEZE** freezes the picture. Press again to restore the moving picture ( page 39).
- **3** SLEEP accesses the sleep timer (№ page 48).
- 4 PIC SIZE cycles through the picture sizes: Natural, TheaterWide 1/2/3, Full, 4:3 HD, Native and Dot by Dot (№ page 37).
- 5 Channel Numbers (0–9, –/100) directly tune channels. The button is used to tune digital channels ( page 36) or to edit the Favorites List ( page 34).
- 6 **INPUT** selects the video input source (№ page 33).
- 7 **CH** ▲ ▼ cycles through programmed channels when no menu is on-screen (🖙 page 29).
- **8 VOL** + adjusts the volume level.
- **9 FAV BROWSER** accesses the Favorites List in the Channel Brower<sup>TM</sup> (Respage 34).
- **10 RECALL** displays TV status information (☞ page 50).
- **11 CH RTN** returns to the last viewed channel or source ( page 37).
- **12 MUTE** reduces or turns off the sound (page 42).
- **13 INFO** displays TV status information as well as program details, when available (128 page 50).
- 15 Arrow buttons (▲▼◀▶) When a menu is on-screen, these buttons select or adjust programming menus. (Also see (♣) ◀/ ♣).)
- **16 ENTER** activates highlighted items in the main menu system.
- **17 MENU** accesses the main TV menu system ( pages 26 and 27).
- **18 EXIT** closes on-screen menus.
- **19 MODE SELECT switch** switches between TV, CABLE/SAT, AUX 1, and AUX 2 modes (♠ page 21). Set to "TV" to control the TV.

# Using the remote control to control your other devices

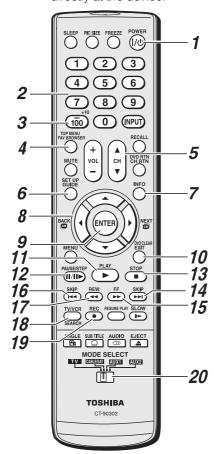
If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (Res pages 23–25).

## 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.

Point the remote control directly at the device.



- 1 **POWER** Turns the selected device on and off.
- 2 Channel Numbers (0-9) Press to directly access channels (as opposed to (♣) (♣).
- **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 (repropage 29):
  - ▲ selects the next higher channel.
  - ▼ selects the next lower channel.
- 6 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
FREEZE	FREEZE	← 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
CHA	Channel	Channel	Channel	Channel	Channel
CH▲▼	up/down	up/down	up/down	up/down	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
<b>◆</b> BACX	Menu left/ Channel Browser <sup>TM</sup>		Menu left		Menu left
► MEXT	Menu right/ Channel Browser <sup>TM</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)	Record(2 click)
RESUME PLAY					Resume Play
SLOW +	SLOW FWD*				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 21.

- 1 In the remote control code table (Rest page 24), 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]).
- While holding down RECALL, 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
  - If the device does not respond to another code, you
    will need to use the remote control that came with the
    device.
- 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.

# **Remote control codes**

In some cases you may not be able to operate your device with the TV remote control. Your other device may use a code that is not recognized by the TV remote control. If this happens, use the device's remote control.

# **Cable converter box**

ABC	061, 062, 063, 082,
	084, 087, 092,
	096, 098
Archer	065, 092, 097, 099
Cableview	064, 094
	092
Century Citizen	090, 092, 097
Contec	083, 085, 086, 088,
<b>5</b>	093, 098
Diamond	093
GE	061, 062
Gemini	069, 070, 094
Hamlin	093
Hitachi	062, 095, 096
Jasco	097
Motorola/GI/Jerrold	062, 069, 071, 082,
	086, 089, 096, 107
Magnavox	072, 096
Memorex	092, 104
Multi Canal	090
Novavision	101
Panasonic	081, 083, 085
Philco	087
Philips	066, 067, 068, 070,
F	072, 073, 074, 075,
	092
Pioneer	076, 077
Proscan	061, 062
Radio Shack	092, 097, 099
RCA	064, 081
Realistic	065
Recoton	102
Samsung	077, 090
Scientific Atlanta	063, 078, 079, 080,
	088, 098, 101, 105
Sears	095
Signature	062
Signature 2000	096
Sprucer	081, 085
Starcom	069, 082, 087, 096,
	103, 104
Stargate	069, 090
Sylvania	095, 100
TeleView	090
Texscan	100
Tocom	071, 084, 085
U. S. Electronics	087, 096, 098
United Cable	082
Universal	065, 092, 097, 099,
Universal	
	102, 103

# Satellite receiver

Alphastar	038, 059
Chaparral	034
DISH Network	057

096

Drake	020, 040, 044, 046, 050, 053
Echostar	018, 041, 051
Express Vu	057
Fujitsu	027
GE	008, 009, 013
General Instruments	010, 011, 012, 022,
	023, 031, 049
Hitachi	033
Hughes	033
Hughes Network	
Systems	019
Intersat	048
Janeil	027
JVC	017, 057
Kenwood	029
Magnavox	060
Optimus	058
Pansat	036, 052
Primestar	015, 042
Proscan	008, 009, 013
Radio Shack	022, 023, 030
RCA	008, 009, 013, 016
Realistic	030
Samsung	059
Sony	014, 055
Star Choice	057, 106
Star Trak	025, 026, 037, 054
STS	024
Toshiba	000, 001, 002, 003,
	004, 005, 006, 007,
	020, 031, 056
Uniden	021, 028, 030, 032,
	035, 039, 043, 045,
	047, 058
Zenith	027

# **TV/VCR Combo**

Action	078
GE	059, 062
Goldstar	065
Panasonic	065
Precision	078
Quasar	065
Realistic	079
Sony	074
Toshiba	057
Zenith	065
Totevision	009, 010, 065

# **DVD/VCR Combo**

,	
Go Video	DVD=087,
	VCR=081
JVC	DVD=088,
	VCR=082
RCA	DVD=089,
	VCR=083
Samsung	DVD=090,
	VCR=084
Sanyo	DVD=091,
	VCR=085
Zenith	DVD=092,
	VCR=086

# **DVD** player

Aiwa	006, 015
Apex	016, 017
BOSE	097
Broksonic	018

Clarion	019
Classic	020
Daewoo	021
Denon	022, 023, 024, 025
Emerson	026, 027
Fisher	028
Funai	027
GE	001, 029, 030
Go Video	087
GPX	031
Hitachi	005, 032, 033, 034,
Tittaciii	035
JVC	003, 007, 036, 042,
JVC	
IZ	088
Kenwood	037
Konka	008, 009
Magnavox	004, 038
Memorex	039
Mintek	040
NAD	026
Nakamichi	041
Norcent	043
Onkyo	044
Oritron	058
Panasonic	010, 045, 046, 047,
	048, 049, 050
Philips	004, 051
Pioneer	052, 053, 054, 055
Proscan	001, 056
Qwestar	057, 058
RCA	001, 002, 059, 089
Sampo	060
Samsung	061, 062, 086, 090
Sansui	073
Sanyo	063, 091
Sharp	064, 067
Sherwood	074
Sony	011, 012, 065, 066,
•	068, 069, 070
Sylvania	027
Teac	071
Technics	072
Techwood	075
Toshiba	000, 013, 076, 077,
2001104	078
Yamaha	079, 080, 081
Zenith	014, 082, 092
Zemui	014, 002, 092

# **Portable DVD player**

Aiwa	093
Audiovox	094, 095
Panasonic	024, 096, 099
RCA	098

# **VCR**

Colortyme

Admiral	049
Aiko	019
Aiwa	018
Akai	003, 004, 037, 038
	039, 058, 069
Audiovox	010
Bell & Howell	007, 068
Broksonic	008, 017
Calix	010
Carver	026
CCE	019
Citizen	009, 010, 011, 012
	013, 014, 015, 019

057, 073

005

(continued)

Wards

# Chapter 3: Using the remote control

Craig	009, 010, 016, 061, 065, 079	Orion	054, 057, 062, 065, 068, 072	Vic
Curtis Mathes	001, 005, 009, 012,	Panasonic	036, 045, 046, 057,	Wa
	014, 040, 048, 053,		061, 072, 079	
	056, 057	Pentax	012, 024, 025, 035,	
Daewoo	011, 013, 015, 017,		042, 053, 063	
	018, 019, 057, 078	Pentex Research	014	
Daytron	078	Philco	026, 027, 063	Wł
Denon	063	Philips	026, 031, 044, 057	XR
Dimensia	001, 048	Pioneer	006, 024, 043, 055	Yaı
Electrohome	010, 020, 065	Portland	012, 013, 015	
Emerson	003, 008, 010, 011,	Proscan Proton	001, 002, 048 061	Zei
	017, 018, 020, 028,	Quasar	045	
	039, 054, 057, 062,	Radio Shack	010, 031, 065	
Fisher	065, 068, 072	Radio Shack/Realistic	007, 009, 010, 016,	H1
PISHEL	007, 016, 021, 022,		018, 020, 021, 022,	Las
	023, 057, 064, 068,		031, 049	Par
Fuji	070, 071, 079 004, 041	Radix	010	Vei
Funai	018, 073	RCA	001, 002, 003, 009,	
Garrard	018, 073		024, 025, 029, 035,	
GE	001, 002, 009, 040,		040, 042, 045, 048,	
	042, 048, 056		055, 056, 063, 071,	
Go Video	056, 059, 061, 081		083	
Goldstar	005, 010, 014, 054,	Realistic	007, 009, 010, 011,	
	056, 065, 067		016, 018, 020, 021,	
Gradiente	018, 065		022, 031, 049, 051,	
Harman Kardon	005		056, 060, 065, 075,	
Hitachi	024, 025, 035, 037,		079	
	042, 063, 070, 080	Ricoh	047	
JBL	076	Runco	034	
JC Penney	005, 006, 007, 008,	Samsung	009, 011, 038, 056,	
	009, 010, 023, 024,		073, 084	
	025, 026, 035, 056,	Sansui	006, 037, 043, 061	
	061, 063, 065	Sanyo	007, 009, 016, 054,	
Jensen	024, 025, 037, 050		064, 068, 071, 075,	
JVC	005, 006, 007, 014,	G	079, 085	
	037, 043, 055, 062,	Scott	008, 011, 017, 028,	
Vanyyaad	063, 068, 082	Caona	030, 057, 065, 072	
Kenwood	005, 006, 007, 012,	Sears	007, 010, 016, 021,	
	014, 037, 043, 050,		022, 023, 024, 025,	
Kodak	053, 068, 071 010		035, 053, 057, 063,	
LG	010		064, 065, 068, 071,	
Lloyds	053, 073, 079	Sharp	075, 079 013, 020, 031, 049,	
Logik	061	Sharp	051, 060, 066	
LXI	010	Shintom	004, 025, 032, 061	
Magnasonic	061, 065, 078	Signature	049	
Magnavox	026, 027, 034, 044,	Signature 2000	075	
	057, 061, 072	Singer	047, 061	
Marantz	005, 006, 007, 012,	Sony	004, 032, 033, 041,	
	014, 026, 053, 067		052, 058, 070, 074,	
Memorex	007, 009, 010, 016,		076, 077, 080	
	018, 034, 049, 063,	STS	035	
	065, 066, 068, 075,	Sylvania	018, 026, 027, 028,	
	079		044, 072	
MGA	020, 028, 039	Symphonic	018, 050, 051, 053,	
MGN	056		073, 079	
Minolta Mitanhiahi	024, 025, 035, 063	Tandy	007	
Mitsubishi	020, 024, 025, 028,	Tashiko	010	
Montgomory Word	039, 043, 065 049	Tatung	037	
Montgomery Ward Motorola	049	Teac Technics	018, 029, 037 036	
MTC	009, 046, 061	Teknika	010, 018, 065	
Multitech	009, 012, 018	Toshiba	000, 011, 021, 023,	
NEC	005, 006, 007, 012,	1001104	024, 028, 030, 039,	
	014, 037, 043, 053,		057, 074, 078, 079	
	054, 067, 070	Totevision	009, 010, 065	
Nikko	010	Unitec	073	
Noblex	009	Unitech	009	
Optimus	010, 049, 065	Vector Research	005, 006, 011, 012,	
Optonica	031		053	

005, 006, 011, 012,
039, 053
009, 010, 011, 016,
018, 020, 024, 025,
031, 035, 049, 051,
056, 057, 060, 065,
066, 079
073
018
005, 006, 007, 014,
037, 053
004, 032, 034, 041,
047, 069, 086

# HTIB

Lasonic 083 Panasonic 084 Venturer 085

# 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 on the remote control or TV control panel.

Icon	Item	Option
Video	Mode	→ Sports/Standard/Movie/PC/Preference
	Picture Settings	→ [Opens the Picture Settings menu]
	Noise Reduction	→ [Opens the Noise Reduction menu]
	Game Mode	→ On/Off
	Theater Settings	→ [Opens the Theater Settings menu]
Audio	Digital Audio Selector	→ [Launches the temporary Audio Selector]
	Audio Settings	→ [Opens the Audio Settings menu]
	Advanced Audio Settings	→ [Opens the Advanced Audio Settings menu]
	Audio Setup	→ [Opens the Audio Setup menu]
Preferences	CC Selector	→ [Launches the temporary CC Selector]
T+-	Base CC Mode	→ Off/CC1/CC2/CC3/CC4/T1/T2/T3/T4
7	Digital CC Settings	→ [Opens the Digital CC Setup menu]
	Input Labeling	→ [Opens the Input Labeling menu]
	Channel Labeling	→ [Opens the Channel Labeling menu]
	Menu Language	→ English / Français / Español
	Channel Browser Setup	→ [Opens the Channel Browser Setup menu]
	REGZA-LINK Player Control	→ [Opens the REGZA-LINK Player Control ]
Locks	Enable Rating Blocking	→ Off/On
A	Edit Rating Limits	→ [Opens the Edit Rating Limits menu]
	Channels Block	→ [Opens the Channels block menu]
	Input Lock	→ Off/Video/Video+
	Control Panel Lock	→ Off/On
	GameTimer	→ Off/ 30min /60min /90min /120min
	New PIN Code	→ [Opens the New PIN Code entry screen]
Setup	Installation	→ [Opens the Installation menu (🖙 page 28)]
	REGZA-LINK Setup	→ Enable REGZA-LINK / TV Auto Input Switch / TV Auto Power/ Device Auto Standby / Speaker Preference
	Sleep Timer	→ [Opens the Sleep Timer menu]
	PC Settings	→ [Opens the PC Settings menu]
	Logo LED	→ Off/On

# Setup/Installation menu layout

The Installation menu contains the Terrestrial and System Status menus.

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

Icon	Item	Option
Terrestrial	Input Configuration	→ [Opens the Input Configuration menu]
HH	Channel Program	→ [Start] → [Scans for new channels on ANT/CABLE]
	Channel Add/Delete	→ [Opens the Channel Add/Delete menu]
	Channel Tuning Mode	→ Standard/Auto/Digital
	Time Zone	→ Pacific/Alaska/Hawaii/Atlantic/Newfoundland/Eastern/Central/ Mountain
	Signal Meter	→ [Opens the Signal Meter menu]
System Status	System Information	→ [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 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 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 .

### 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.

# Chapter 5: Setting up your TV

# **Setting the Energy Saving Mode**

When you first turn on the TV, the Menu Language, and Energy Saving Mode windows will appear by default.

## To select settings:

1 From the Menu Language selection window, highlight your preferred language and press (\*\*\*).



**2** Next, the Energy Saving Mode setting window will appear.

For normal home use, press to select **Home** and press end.

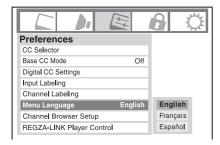


# **Selecting the menu language**

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 on and open the **Preferences** menu.
- 2 Highlight Menu Language and press ▶.
- 3 Press ▲ or ▼ to select your preferred menu language and press (MTB).



4 Press on to close the **Preferences** menu.

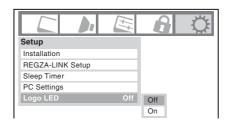
# **TOSHIBA Logo LED**

You can select TOSHIBA Logo LED either On or Off.

Press on and open the **Setup** menu.

Highlight **Logo LED** and press ▶.

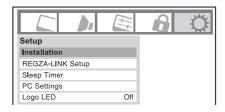
Press  $\triangle$  or  $\nabla$  to select either **On** or **Off** and press  $\square$ 



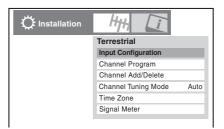
# Configuring the antenna input source for the ANT/CABLE terminal

# To configure the ANT/CABLE input source:

- 1 Press on and open the **Setup** menu.
- 2 Highlight **Installation** and press **EXER**.



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



4 Press 

✓ or 

to select the input source (Cable or Antenna) for the ANT/CABLE input on the TV.



To save your new settings, highlight **Done** and press . To revert to your original settings, highlight **Cancel** and press .

# Programming channels into the TV's channel memory

When you press (ch) or (ch) 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**

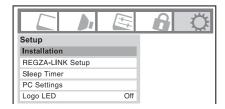
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

#### Note:

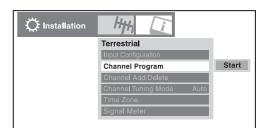
- You must configure the ANT/CABLE input source before programming channels (page 28).
- The automatic channel programming process will erases channels that were previously programmed into the TV's memory.
- To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
- Programming channels when the ANT/CABLE 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 ( page 28).
- 2 Press ond open the **Setup** menu.
- 3 Highlight Installation and press (MTB).



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 again to begin channel programming.





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 <sup>EXIT</sup> on the remote control (or highlight **Cancel** in the on-screen display and press (□□)).

When channel programming is finished, press and or 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:

- From the **Setup** menu, highlight **Installation** and press (IIII). A new set of **Installation** menu icons will appear.
- 2 Open the Terrestrial menu, highlightChannel Add/Delete, and then press .

# To add a channel to the channel memory:

Highlight the unchecked box next to the channel number you want to add, and then press [9178] to check the box.

(continued)

# To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash (100) 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 (RIEB) to uncheck the box.

# To save your new settings:

Highlight **Done** and press even.

## To revert to your original settings:

Highlight Cancel and press before saving.

## To remove all channels from the channel memory:

Highlight **Reset** and press (MTB), and then highlight **Done** and press (MTB).

**Note:** A video preview of the currently highlighted channel is provided to assist you in adding/deleting channels.

# 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 on and open the **Preferences** menu.
- Highlight Channel Labeling and press The Channel Labeling window opens.
- **3** Press or to select the channel you want to label.
- 4 Press ▲▼◀► to highlight the desired channel label and press .
- **5** Repeat steps 3 and 4 for other channels.
- **6** To save your settings, highlight **Done** and press (IIII).



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

## To remove channel labels:

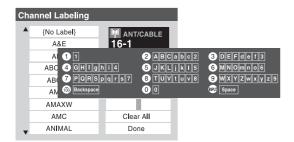
- 1 Open the Channel Labeling window.
- Press (ch) or to select the channel for which you want to remove the label.
- 3 Press ▲▼◀▶ to highlight No Label and press .
- **4** Repeat steps 2 and 3 for other channels.
- **5** To save your settings, highlight **Done** and press (1988).

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

(continued)

# To create and assign a custom label:

- 1 Open the **Channel Labeling** window.
- Press or to select a channel you want to label.
- 3 Press ▲▼▶ to highlight **Custom** and press (IIII). 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 ▶ key, or after a two-second pause.
- **6** Repeat steps 4 and 5 until you have entered all desired text.
- **7** When finished, press (MTE).
- New labels will be added to the list in alphabetical order and marked with an icon 

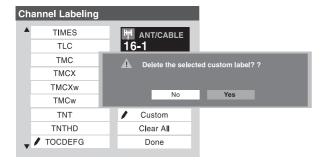
  to indicate that they are custom. Highlight the new custom label and press 

  to assign.

Assigned channel labels will be displayed in the banner, Channel Add/Delete, Channels Block, and Channel Browser $^{TM}$ .

#### To delete the custom label:

- 1 Open the **Channel Labeling** window.
- 2 Highlight the label to be deleted and press (100).
- Highlight **Yes** from the deletion confirmation window and press (MP).

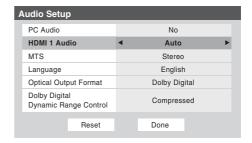


4 Highlight **Done** and press to save changes, and go back to the **Channel Labeling** window.

# Setting the HDMI™ 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 (MTB).
- 3 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" (☞ page 15).



Mode	Description	
When viewing the HDMI 1 input, if digital audio from the HDMI input is available, it be output. If not, the TV will automatically detect and output analog audio from the PO Audio input.		
Digital When viewing the HDMI 1 input, digital audio from the HDMI input will be output		
Analog	When viewing the HDMI 1 input, analog audio from the PC Audio input will be output.	

**4** To save your settings, highlight Done and press (IIII).

**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 7 on page 11 and "Setting the PC Audio" on page 48.)

# Viewing the digital signal meter

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

# To view the digital signal meter:

- 1 Press on and open the **Setup** menu.
- **2** Highlight **Installation** and press [1878].
- A new set of Installation menu icons will appear, as shown below. Open the **Terrestrial** menu, highlight **Signal Meter**, and press .
- 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.
- The signal strength does not change between virtual channels on the same physical channel.

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

Highlight **Done** and press (NTER).

## To return to normal viewing:

Press  $\stackrel{\mathsf{EXIT}}{\bigcirc}$ .

# **Setting the time zone**

The Time Zone setup will allow you to specify the correct time zone for your region. This feature will allow the TV status information to show the correct time zone information (12) page 50).

#### To set the time zone:

- From the **Setup** menu, highlight **Installation** and press A new set of Installation menu icons will appear.
- 2 Open the **Time Zone** menu, highlight **Time Zone Setup**, and press (MTB).
- 3 Press ▲▼◀▶ to select the region, highlight **Done**, and then press (□□□).

After the time zone has been set, you will be asked to set the current Daylight Saving Time status.

## To set the Daylight Saving Time status:

1 Press ◀ or ▶ to select **Yes** or **No**, highlight **Done**, and then press (\*\*\*).

# Viewing the system status

## To view the system status:

- 1 Press on and open the **Setup** menu.
- **2** Highlight **Installation** and press (MIB).
- A new set of Installation menu icons will appear, as shown below. Open the **System Status** menu, highlight **System Information**, and press .
- 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 (MTER).

## To return to normal viewing:

Press  $\stackrel{\mathsf{EXIT}}{\cap}$ .

# **Reset Factory Defaults**

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

- 1 Press on and open the **Setup** menu.
- **2** Highlight **Installation** and press (Installation menu icons will appear.
- Open the System Status menu, highlight System Information, and press (1978).
- 4 Press ◆ to scroll through the menu bar to select Factory Defaults.
- **5** Enter your PIN code (or 0000 if no PIN code has been set).
- 6 Highlight **Yes** and press [187]. 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 (NTER).

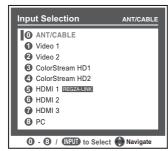
# Chapter 6: Using the TV's features

# Selecting the video input source to view

## To select the video input source to view:

- 1 Press (NPU) 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 (BTE) to change the input; or
  - Repeatedly press 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 (w "Labeling the video input sources" at right).
- Sources can be "hidden" (
   "Labeling the video input sources" at right).
- "No Video Signal" will appear randomly on the screen if no signal is received in video input mode.
- If CEC device is connected to a HDMI input, the REGZA-LINK icon will appear.

# If a REGZA-LINK device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input:

Press (NPUT) on the remote or TV control panel repeatedly to highlight HDMI 1, HDMI 2, or HDMI 3.

If the connected CEC device has any connected devices, a separate device selection popup window will appear.



Press preparedly to highlight the desired input source, and then press  $\stackrel{\text{EXIT}}{\bigcirc}$ .

#### Note:

- When selecting REGZA-LINK input sources from the popup window using m, some REGZA-LINK devices may automatically turn on.
- When selecting input sources using ▲ ▼, you will have to press (m) to actually select a particular device from the popup window.

# Labeling the video input sources

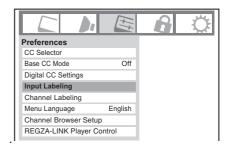
You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- -- (default label)
- · Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HDMI Switch (HDMI inputs only)
- Laser Disc
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the Input Selection screen and in the Channel Browser<sup>TM</sup> Inputs list)

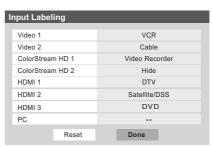
**Note:** If you select PC in the Input Selection screen, you can choose only "--", "Game Console" or "Hide" as the label.

## To label the video input sources:

- 1 Press MENU and open the **Preferences** menu.
- 2 Highlight Input Labeling and press (MTE).



**3** Press ▲ or ▼ to highlight the video source you want to label.



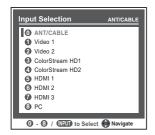
(continued)

- 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 (NPU) on the remote control.
- To save the new input labels, highlight **Done** and press (PTB).

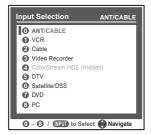
  To revert to the factory default labels, highlight **Reset** and press (PTB).

## 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 we 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 on and open the **Preferences** menu.
- **2** Highlight **Input Labeling** and press (MTB).
- 3 Highlight **Reset** and press (ME).

# **Tuning channels**

# Tuning channels using the Channel Browser™

The Channel Browser<sup>TM</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>TM</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>TM</sup>) or Select mode (to surf over channels in the Channel Browser<sup>TM</sup> before you select one to tune).
- · Quickly change inputs from the Inputs List.
- Quickly select REGZA-LINK devices from the REGZA-LINK 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>TM</sup>.

# To add a favorite channel/input:

- **1** Tune to the channel or input.
- **2** Press and hold FAV BROWSER for 3 seconds.

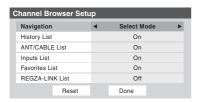
**Note:** Additions are added to the beginning of the Favorites list on the left side of the Channel Browser<sup>TM</sup>.

## To delete a favorite channel/input:

- 1 Press fav Browser to open the Favorites browser list.
- **3** Press and hold no for 3 seconds. The channel/input will be removed from the Favorites list.

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

- 1 From the **Preferences** menu, highlight **Channel Browser Setup** and press (1939).
- Press ▲ to highlight Navigation, and then press or ► to select either Browse Mode or Select Mode.



**3** Press ▼ to highlight **History List**, and then press ◀ or ▶ to select the setting you prefer: either **On**, or **Off**.

**Note: History List** will be cleared every time the TV is powered off.

- 4 Press ▼ to highlight ANT/CABLE List, and then press ◀ or ► to select On or Off.
- 5 Press ▼ to highlight Inputs List, and then press ◀ or ▶ to select **On** or **Off**.
- **6** Press ▼ to highlight **Favorites List**, then press ◀ or ▶ to select **0n** or **0ff**.
- 7 Press ▼ to highlight REGZA-LINK List, and then press ◀ or ▶ to select On or Off.

**Note:** REGZA-LINK List will be automatically grayed out and set to **Off** when **Enable REGZA-LINK** is switched to **Off**. (See "To set the REGZA-LINK Setup" on page 49 for more information.)

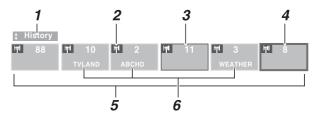
To save your entries, highlight **Done** and press end.

To return to factory defaults, highlight **Reset** and press end.

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

- Press 
   or or on the remote control.
- Press to surf forward through the channel History, the ANT/CABLE channel list, the Inputs list, the REGZA-LINK list, or the favorite channels/inputs in the Favorites list.

## **Elements of the ChannelBrowser™**



- 1 Current list (History, ANT/CABLE, Inputs, Favorites, or REGZA-LINK)
- **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 ▲ or ▼ to toggle among **History**, **ANT/CABLE**, **Inputs**, **Favorites**, and **REGZA-LINK**.

#### 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.
- Pressing \*\* Pres

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

- While watching TV, press of or of to open the Channel Browser™ 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™, 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>.

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

- While watching TV, press of or forward to the next item in the list.

  In **Select** mode, when you stop on an item in the Channel Browser<sup>TM</sup>, it will be highlighted but you must press to tune the TV to the highlighted item.
- **2** Press to tune the TV to the highlighted item.
- **3** Press  $\stackrel{\text{EXIT}}{\bigcirc}$  to close the Channel Browser<sup>TM</sup>.

(continued)

# 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>TM</sup> adds it to the History List and displays it on the "right side" of the Channel Browser<sup>TM</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>TM</sup>.

The Channel Browser<sup>TM</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/CABLE input will clear the History List.

**Note:** See page 28 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.
- Turning off the TV will clear the History List.

# **Setting the Channel Tuning Mode**

This feature allows you to choose how tuning will be handled for analog and digital channels when the TV is in Antenna mode.

**Note:** To use this feature, the **Input Configuration** must be set to **Antenna** (respage 28).

The channel tuning mode has three options.

Mode	Description
Standard Both analog and digital channels can be tuned normally	
Auto (default)	Digital channels will have priority when manually entering a channel number using the Channel Number (0-9) on the remote control, analog channels can still be tuned by (ch) / (th) / (th) , if available
Digital	Only digital channels can be tuned

**Note:** Digital mode will be most useful after analog channels are shut down by the government in 2009.

# To set the Channel Tuning Mode:

- 1 From the **Setup** menu, highlight **Installation** and press (IIII). A new set of **Installation** menu icons will appear.
- Open the Terrestrial menu, highlight Channel Tuning Mode, and then press ▶ and ▲ ▼ to select your desired mode.

#### Note:

- The Channel Add/Delete & Channels Block windows as well as the Channel Browser ANT/CABLE list will be updated automatically when you change the mode. Also, the History List will be cleared, but the Favorites List will be saved.
- Even if the Channel Tuning Mode is set to **Digital**, analog channel 3 will still be the default channel to prevent the initial case where no digital channels have been found in prior channel scans. (Channel Add/Delete will not have anything listed until a scan is done.)

# Tuning to the next programmed channel

# To tune to the next programmed channel:

Press  $\stackrel{\text{\tiny CH}}{|}$  or  $\stackrel{\text{\tiny CH}}{|}$  on the remote control or TV control panel.

**Note:** This feature will not work unless you program channels into the TV's channel memory ( page 29).

# 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, then [8178].

#### **Tuning digital channels:**

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

**Note:** If a digital channel is not programmed—either through the automatic channel scan (represented page 29) or the channel add/delete function (represented page 29)—you will have to tune the RF channel using the Channel Number and dash (represented page 29)—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.

- **1** Select the first channel you want to view.
- 2 Select a second channel using the Channel Number buttons (and the dash (100) button if selecting a digital channel)
- Press CHRTN on the remote control. The previous channel will display. Each time you press CHRTN, the TV will switch back and forth between the last two channels that were tuned.

**Note:** If you press CHRTN 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 to the  $\overset{\mathsf{CH}\,\mathsf{RTN}}{\bigcirc}$  button, so you can return to that channel quickly from any other channel by pressing  $\overset{\mathsf{CH}\,\mathsf{RTN}}{\bigcirc}$ . To memorize a channel to the  $\overset{\mathsf{CH}\,\mathsf{RTN}}{\bigcirc}$  button:

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

The TV will return to the memorized channel one time only. Once you press on 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. This feature also works for external inputs.

## 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, Native and Dot by Dot (available in PC Mode Only).

**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  $\stackrel{\text{PIC SIZE}}{\bigcirc}$  on the remote control.
- While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
  - Repeatedly press PIC SIZE
  - Press the corresponding Number button (0–6) while the **Picture Size** screen is open.
  - Press ▲ or ▼ 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 **◄** or **▶** to select the desired picture size setting.
- 3 Highlight **Done** and press (NTER).

**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).

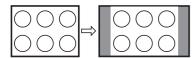
Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

**Note:** If you select one of the TheaterWide® 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.

## Chapter 6: Using the TV's features

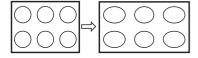
## **Picture Size**

## **Natural**



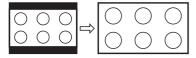
Some program formats will display with sidebars and/or bars at the top and bottom.

# TheaterWide 1 (for 4:3 format programs)



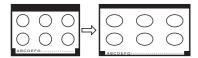
The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.

# TheaterWide 2 (for letter box programs)



The top and bottom edges of the picture may be hidden\*.

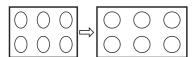
# TheaterWide 3 (for letter box programs with subtitles)



The top and bottom edges are hidden\*.

#### Full

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

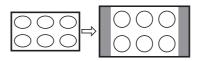


- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.

### **Picture Size**

## 4:3 HD

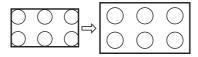
(for 720p, 1080i, and 1080p program sources only)



Picture is not distorted from original size.

## **Native**

# (for 480i (HDMI), 480p (HDMI), 720p, 1080i, and 1080p signal programs)



- If receiving a 480i (HDMI), 480p (HDMI), 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).
- This is especially useful for external HD sources such as DVD, DVHS movies, or PC graphics.

#### Note:

- This mode is supported only for HDMI (1080p, 1080i, 720p, 480p, and 480i), ColorStream (1080i and 720p), and ANT/ CABLE (digital) inputs (1080p, 1080i, and 720p).
- Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.

## Dot by Dot (for VGA, SVGA, XGA, WXGA, and SXGA sources only)



The "Dot by Dot" picture is non-scaling display.

Depending on the input signal formats, picture is displayed with sidebars and/or bars at the top and bottom. (Example: VGA input source)

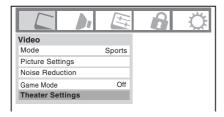
<sup>\*</sup> To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide" picture" (1887 page 39).

# Scrolling the TheaterWide® 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 on and open the **Video** menu.
- 2 Highlight Theater Settings and press (1978).



- 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 **◄** or **▶** to scroll the picture up and down as needed.
- To save the new settings, highlight **Done** and press (TO).

  To revert to the factory defaults, highlight **Reset** and press (TO).

**Note:** When receiving a signal at 480i resolution, the picture scroll function may have limited adjustment range.

## Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **0n**, the TV will automatically select the picture size when one of the following input sources is received:

- A 480i, 480p, 720p, 1080i digital signal from the ANT/CABLE input
- A 480i signal from the **VIDEO 1** or **VIDEO 2** input
- A 480i signal from the ColorStream HD1, or HD2 input
- A 480i, 480p, 720p, 1080i, 1080p, or VGA (60Hz) signal from the HDMI 1/2/3 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 37.

**Note:** The auto aspect ratio feature is not applicable to PC input.

## To turn on the auto aspect ratio feature:

- **1** Press  $\bigcirc^{MENU}$  and open the **Video** menu.
- 2 Highlight Theater Settings and press (MTE).
- 3 In the Auto Aspect Ratio field, select On.
- To save the new settings, highlight **Done** and press (IIII). To revert to the factory defaults, highlight **Reset** and press (IIII).

**To turn off the auto aspect ratio feature:** Select **Off** in step 3 above.

## **Using the FREEZE feature**

### To use the FREEZE feature:

- **1** When viewing the TV, press FREEZE to make the picture a still picture.
- **2** To return to the moving picture, press REEZE again (or any other button).

**Note:** If the TV is left in FREEZE mode for more than 15 minutes, the FREEZE mode will automatically be released and the TV will return to moving picture.

Using the FREEZE function 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.

## **Adjusting the picture**

## Selecting the picture mode

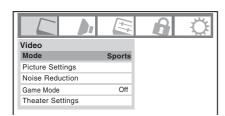
You can select your desired picture settings from four different modes, as described below.

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

**Note:** PC mode is available for HDMI and PC inputs only (grayed out for other input sources).

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

- **1** Press  $\stackrel{\mathsf{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Mode and press (REE).



**3** Press ▲ or ▼ to select the picture mode you prefer and press (SIE).



**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, Backlight, DynaLight<sup>TM</sup>, Brightness, Color, Tint, and Sharpness) to your personal preferences.

Selection	Pressing <b>◄</b>	Pressing ►
Contrast	lower	higher
Backlight*	darker	lighter
DynaLight**	On/Off	On/Off
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

<sup>\*</sup> Backlight

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 <sup>MENU</sup> and open the **Video** menu.
- 2 Highlight Picture Settings and press (1978).
- 3 Press ▲ or ▼ to select the picture quality you want to adjust (Contrast, Backlight, DynaLight, Brightness, Color, Tint, or Sharpness), and then press ◀ or ▶ 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 (See "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 (TE).

The picture qualities you adjusted are automatically saved in the **Preference** mode ( "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 on and open the **Preferences** menu.
- 2 Highlight Base CC Mode and press ▶.
- 3 Press ▲ or ▼ to select the desired closed caption mode and press (PITE).
- To view captions:

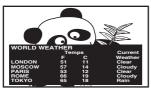
Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



**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, opacity, 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 on and open the **Preferences** menu.
- 2 Highlight Digital CC Settings and press (PTE).
- Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◀ or ▶ to select the format for that characteristic (see table below).
- To save the new settings, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults are the factory defaults.

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 Edge	Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow
Caption Text Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Foreground Opacity	Auto, Transparent, Translucent, Flashing, Solid
Background Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Background Opacity	Auto, Transparent, Translucent, Flashing, Solid
Caption Text Edge Color	Auto, Black, White, Red, Green, Blue, 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:

- Press  $^{\text{MENU}}_{\bigcirc}$  and open the **Preferences** menu.
- 2 Highlight CC Selector and press (MB).
- 3 Press ▲ or ▼ to select Closed Caption, and then press ⋖ or ▶ to select the desired service.
- 4 Press EXIT

## Adjusting the audio

## **Muting the sound**

Press on the remote control to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press or the mute mode will change in the following order:

$$\longrightarrow$$
 1/2 Mute  $\longrightarrow$  Mute  $\longrightarrow$  Volume  $\longrightarrow$ 

If the closed caption mode is set to **Off** when you select "MUTE" mode, the closed caption feature is automatically activated if the TV program is Closed Captioned. To mute the audio without automatically activating the closed caption feature, use both to set the volume to 0. See "Using the closed caption mode" (page 41) 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** (\*Selecting stereo/SAP broadcasts" on page 42).

## To use the digital audio selector:

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



- 3 Press ▲ or ▼ to select Audio, and then press ◀ or ▶ to select the desired service.
- 4 Press  $\stackrel{\mathsf{EXIT}}{\cap}$ .

## **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 only available for analog signals on the **ANT/CABLE** input.

#### To listen to stereo sound:

- **1** Press  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Setup and press (MTB).
- 3 In the MTS field, select Stereo.
- To save the new settings, highlight **Done** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Done** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults, highlight **Reset** and press To reset the settings to the factory defaults and press To reset the settings to the factory defaults are the settings to the factory defaults and press To reset the settings to the setting the setti

#### 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 ◀ or ▶ 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  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Settings and press (1978).
- 3 Press ▼ or ▲ to highlight the item you want to adjust (Bass, Treble, or Balance).
- **4** Press **◄** or **▶** to adjust the level.
  - Implies 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).
- To save the new settings, highlight **Done** and press (To reset the settings to the factory defaults, highlight **Reset** and press (To).

## 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 17).

### To select the optical audio output format:

- 1 Press on and open the **Audio** menu.
- 2 Highlight Audio Setup and press (ME).
- 3 In the Optical Output Format field, select either Dolby Digital or PCM, depending on your device.
- 4 To save the new settings, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults are the factory defaults.

## 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  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Setup and press 🕮.
- In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.
- To save the new settings, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults.

#### Note:

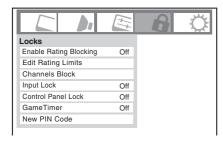
- This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.
- The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).

## **Using the Locks menu**

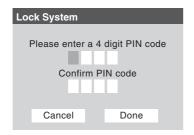
The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Control Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

## **Entering the PIN code**

1 Press on and highlight the **Locks** menu icon.



- **2** Press **▼**, 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 [1979].



• 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 (ITB).

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

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

## 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**

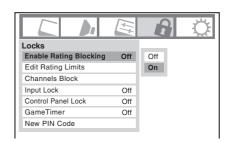
- 1 Press on and highlight the **Locks** menu icon.
- **2** Press ▼ to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press 📼
- **4** Press **▼** to highlight **New PIN Code** and press **© IB**).
- **5** Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.
- **6** Press [NTE]. The new PIN code is now active.

# 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.)

## To block and unblock TV programs and movies:

- Press on and highlight the **Locks** menu icon.
- **2** Press **▼** to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press (PTP).
- **4** Press **▼** to highlight **Enable Rating Blocking**.
- **5** Press ▶ and ▼ to select **0n**, and then press (NTE).



- Press ▼ to highlight Edit Rating Limits and press (The Edit Rating Limits screen (below) appears.
- Press ▲▼◀▶ and then press to select the level of blocking you prefer. A box with an "X" 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 (ITE).

**Note:** Above selection of blocking level is for U.S V-Chip system. For Canada rating, you can highlight the "Canada RS" then press many another "Canadian Rating Menu" screen will appear.

# 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 on and highlight the **Locks** menu icon.
- **2** Press ▼ to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press (ITB).
- **4** Press **▼** to highlight **Enable Rating Blocking**.
- **5** Press ▶ and ▼ to select **0n**, and press **(ME)**.
- 6 Press ▼ to highlight Edit Rating Limits and press ® The Edit Rating Limits screen appears.
- Highlight Alt RS and press . 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 to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked.
- **9** When you are finished selecting the ratings you want to block, highlight **Done** and press (ITE).
- 10 In the Edit Rating Limits screen, highlight Done and press

## 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	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 \$\mathbf{S}\) Explicit sexual activity \$\mathbf{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.)
TV-Y	All Children (This program is designed to be appropriate for all children.)

Independent rating system for movies	
Ratings	Description and Content themes
X	X-rated (For adults only)
NC-17	Not intended for anyone 17 and under
R	Restricted (Under 17 requires accompanying parent or adult)
PG-13	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
PG	Parental Guidance Suggested (Some material may 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 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.

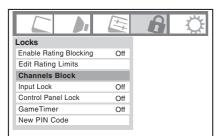
TV-PG L V	NONE

## **Blocking channels**

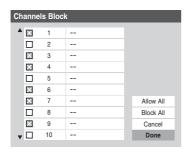
With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unlock them.

#### To block channels:

- 1 Press on and highlight the **Locks** menu icon.
- **2** Press ▼ to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press (1287 page 44).
- 4 Press ▼ to highlight Channels Block and then press (ITED). A list of the channels available for that input will be displayed along with the call letters for each channel, if available.



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



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

### To unblock individual channels:

In step 5 above, press  $\blacktriangle \blacktriangledown$  to highlight the channel you want to unblock, press  $\circledR$  to remove the "x" from the box, highlight **Done** and press ข.

### To block all channels at once:

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

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

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

## **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 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.

## 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 From the **Locks** menu, Press ▼ to display the PIN code entering screen.
- **2** Enter your four-digit PIN code and press (NTE).
- **3** Press ▼ to highlight **Input Lock** and press ▶.
- 4 Press ▲ or ▼ to select the level of video input locking you prefer, as described below.

Mode	Description
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 <b>Video+</b> if you play video tapes via an ANT/CABLE input.
Off	Unlocks all video inputs and channels 3 and 4.

Dress (ENTER).

## **Using the GameTimer®**

You can use the GameTimer to set a time limit for playing a video game (30–120 minutes). When the GameTimer expires, the TV enters Input Lock mode and locks out the input source for the video game device..

### To set the GameTimer®:

- 1 From the **Locks** menu, press ▼ to display the PIN code entering screen.
- 2 Enter your four-digit PIN code and press (NTB).
- **3** Press ▼ to highlight **GameTimer** and press ▶.
- Press ▲ or ▼ to select the length of time until the Input Lock is activated (30, 60, 90, or 120 minutes) and press ((15)).

## To cancel the GameTimer®:

Select **Off** in step 4 above.

## To deactivate the Input Lock once the GameTimer® has activated it:

Set the **Input Lock** to **Off** ( "Using the input lock feature" as described above).

#### Note:

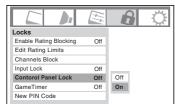
- A message will appear when 10 minutes, 3 minutes, and 1 minute remain on the GameTimer.
- If the TV loses power with time remaining on the GameTimer, when power is restored the TV will enter Input Lock mode (as if the GameTimer had been activated) and you will have to deactivate the Input Lock (as described above).

## 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  ${\bf 0n}$ , none of the controls on the TV control panel will operate except  ${\bf POWER}$ .

## To lock the control panel:

- 1 Press on and highlight the **Locks** menu icon.
- **2** Press ▼ to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press (PIE).
- 4 Press ▼ to highlight Control Panel Lock.
- Press ➤ and ▲ or ▼ to highlight **0n** and press . 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:

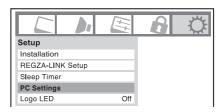
Highlight **Off** in step 5 above, or press and hold the **VOLUME** – button on the TV control panel for about 10 seconds until the volume icon appears.

## **Using the PC settings feature**

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

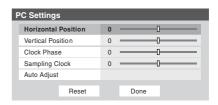
## To adjust the PC settings:

- Repeatedly press proposed to select PC input mode (see "Selecting the video input source to view" page 33).
- 2 Press ond open the **Setup** menu.
- 3 Highlight PC Settings and press (MTB).



**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 ▲ or ▼ to highlight the item you want to adjust.
- **5** Press **◄** or **▶** to make the appropriate adjustments.



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

Mode	Description
Horizontal Position	Moves the picture left/right. The adjustment range is within ±50 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 ±16 from center.*
Sampling Clock	Helps to reduce noise and minimize periodic vertical stripes on the screen.  The adjustment range is within ±10 from center.*
Auto Adjust	Highlight this item then press me to get an optimum adjustment automatically.

<sup>\*</sup> The default settings may vary depending on the input signal format

## **Setting the PC Audio**

This function allows you to output or mute the sound from your PC when connecting using the PC IN terminal and an analog RGB cable. (RSP page 18)

#### To set the PC Audio:

- **1** Press  $\stackrel{\mathsf{MENU}}{\bigcirc}$  and open the **Audio** menu.
- 2 Highlight Audio Setup and press (MB).
- 3 Press ▲ or ▼ to select PC Audio and then press ◀ or ▶ to select No or Yes.

**Yes:** When viewing the PC input, the audio from the PC Audio input can be heard.

**No:** When viewing the PC input, there will be no audio.

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 7 on page 11 and "Setting the HDMI<sup>TM</sup> Audio mode" on page 31.)

## **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  $\stackrel{\text{SLEEP}}{\bigcirc}$  on the remote control to set the length of time until the TV turns off. Repeatedly press  $\stackrel{\text{SLEEP}}{\bigcirc}$  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 on and open the **Setup** menu.
- 2 Highlight Sleep Timer and press (1978).
- **3** Press the Number buttons to enter the length of time in 10-minute increments.
- 4 Highlight **Done** and press (ME).

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

## To display the remaining sleep time:

Press SLEEP.

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

## To cancel the sleep timer:

Repeatedly press on until it is set to 0 minute.

## **Using REGZA-LINK®**

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the TV remote via HDMI connection ( page 16). When the Enable REGZA-LINK in the REGZA-LINK setup menu ( page 49) is set to On, the following REGZA-LINK functions will be enabled.

# REGZA-LINK® playback device (DVD player, etc.) control

With your TV's remote control, or using the REGZA-LINK Player Control menu, you can control the connected REGZA-LINK playback device you are watching.

## **Available remote control key functions:**

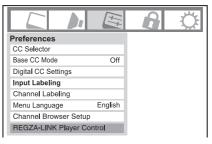
Before using the following key functions, first set the MODE SELECT switch on the remote control to TV.

Button	Description
PLAY •	Begins playback.
STOP	Stops playback.
PAUSE/STEP	Pauses the picture during play or record mode.
SKIP	Skips forward.
SKIP	Skips backward.
FF •••	Fast-forwards.
REW <b>◀</b> - <b>∅</b>	Rewinds/reverses.
▲▼◀▶	Navigate contents menu, etc.
ENTER	Enters contents menu, etc.
EXIT	Returns to the previous menu.

Note: These functions depend on the devices connected.

## **REGZA-LINK® Player Control menu functions:**

- 1 Press on and open the **Preferences** menu.
- 2 Highlight REGZA-LINK Player Control and press (\*\*\*).



Press ▲ or ▼ to select the item you want to control and press (\*\*\*).

Item	Description
Power	Turns the select device on and off.
Top Menu	Accesses the top menu of a DVD.
Menu	Accesses the menu of a DVD.
Contents Menu	Accesses the contents list when you press   B. At this time, the <b>REGZA-LINK Player Control</b> menu will disappear.

#### Note:

- These functions depend on the devices that are connected.
- The **REGZA-LINK Player Control** item will be grayed out in the following conditions:
  - A non-HDMI input is currently selected.
  - The Enable REGZA-LINK item is set to Off.
  - The connected CEC device is not a playback or recording device.

## **REGZA-LINK®** input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device using the TV's INPUT button. See page 33 for details.

## **VOLUME and MUTE controls of Audio Receiver**

With your TV's remote control, you can adjust or mute the sound volume of the Audio Receiver. First, set the MODE SELECT switch on the remote control to **TV**.

- 🔂 volume level.
- " turns off the sound.

## Note:

- To use this function:
  - Set Speaker Preference to Audio Receiver in the REGZA-LINK Setup menu.
  - Confirm that a connected REGZA-LINK device (such as DVD player, etc) is selected for the Audio Receiver input source.
- You can also use this function when the audio receiver is connected to the TV's DIGITAL AUDIO OUT terminal (not HDMI connection). In this case, select a digital audio input mode on the Audio Receiver.
- These functions depend on the device connected.

## Other REGZA-LINK® functions

When the **Enable REGZA-LINK** and each item in the **REGZA-LINK Setup** menu are set to **On**, the following functions will be enabled.

Item	Description
TV Auto Input Switch	If a connected HDMI device starts playing video or audio, the TV will automatically switch to the appropriate HDMI input.
TV Auto Power	If a device is turned on, the TV turns on automatically.
Device Auto Standby	If the TV is turned off the TV will send a message to turn off all of the devices connected to the TV.
Speaker Preference	From this item, you can set your audio output preference to the TV speakers or the audio receiver speakers. When this item is set to Audio Receiver, the TV remote can be used to adjust or mute the volume of the audio. This item will be grayed out unless a REGZA-LINK compatible audio receiver is connected.

**Note**: When you turn on the Audio Receiver, change its input source, or adjust the sound volume, the sound will be output from the audio receiver's speakers even if **TV Speakers** has been selected. Turn the TV off and on again to output the sound from the TV speakers.

## To set the REGZA-LINK® Setup:

- 1 From the **Setup** menu, highlight **REGZA-LINK Setup** and press (1978).
- 2 Press ▲ or ▼ to highlight Enable REGZA-LINK.
- **3** Press  $\triangleleft$  or  $\triangleright$  to select **0n**.

Note: If you select **Enable REGZA-LINK Off**, the other items will be grayed out.

- **4** Press ▲ or ▼ to highlight the **REGZA-LINK Setup** item you want to use, and press ◀ or ▶ to select **On** or desired mode.
  - TV Auto Input Switch: On/Off
  - TV Auto Power: On/Off
  - Device Auto Standby: On/Off
- To save the new settings, highlight **Done** and press (IIII).

  To revert to the factory defaults, highlight **Reset** and press (IIII).

## **Displaying TV status information**

## To display TV status information using RECALL:

Press Press on the remote control.

The following information will display (if applicable):

- Current input (ANT/CABLE, VIDEO 1, etc.)
- If ANT/CABLE is the current input, either "CABLE" (for cable TV) or "ANT" (for over-the-air broadcasts).
- Channel number (if in ANT/CABLE 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 of incoming video signal (4:3 or 16:9)
- · V-Chip rating status
- Game Timer (if set)



## To close the RECALL screen:

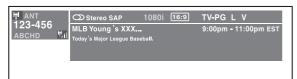
Press Call again.

## To display TV status information using INFO:

Press  $\stackrel{\mathsf{INFO}}{\bigcirc}$  on the remote control.

The following additional information will display for off air digital channels (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.

# 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/CABLE** 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:** If it's possible, and you will be away from the TV for an extended period of time you should unplug the power cord.

## Chapter 7: Using the TV's advanced features

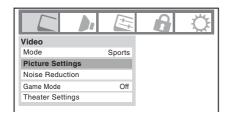
# Using the advanced picture settings features

## **Using dynamic contrast**

When dynamic contrast is set to **0n**, 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 on and open the **Video** menu.
- 2 Highlight Picture Settings and press (NTB).



- 3 Highlight Advanced Picture Settings and press (IIII)
- 4 In the **Dynamic Contrast** field, select either **Off** or **On**.
- To save the new settings, highlight **Done** and press (\*\*\*). To revert to the factory defaults, highlight **Reset** and press (\*\*\*).

**Note:** If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie** or **PC**) 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  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Picture Settings and press em.
- **4** In the **Static Gamma** field, press **◄** or **▶** to adjust the static gamma.

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

- 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 (1979).

To revert the factory defaults, highlight **Reset** and press

**Note:** If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie** or **PC**) 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  $\stackrel{\text{MENU}}{\bigcirc}$  and open the **Video** menu.
- 2 Highlight Picture Settings and press (PIES).
- 3 Highlight Advanced Picture Settings and press @ ...
- 4 Highlight Color Temperature and press (PTE).
- 5 In the Color Temperature field, press ◀ or ▶ to select the mode you prefer (Cool, Medium, or Warm).
- 6 Press ▲ or ▼ to select either B Drive or G Drive, and then press ◀ or ▶ to adjust the settings.
  - 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 To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults are the factory defaults.

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

## Selecting the cinema mode

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:

(available for 480i and 1080i signals)

- 1 Press on and open the **Video** menu, highlight **Picture Settings** and press **EXE**.
- 2 Highlight Advance Picture Settings and press (NTB).
- 3 In the Cinema Mode field, select Film.
- To save the new settings, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press (ITE).

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

Select **Video** in step 3 above.

## Using the ClearFrame™ feature

The new ClearFrame 120 Hz anti-blur technology doubles the frame rate from 60 frames per second to 120 frames per second, virtually eliminating motion blur without adding flicker or reducing image brightness.

### To turn on the ClearFrame:

- Press on and open the **Video** menu, highlight **Picture Settings** and press .
- 2 Highlight Advanced Picture Settings and press (MB).
- 3 In the ClearFrame field, select On.
- 4 To save the new settings, highlight **Done** and press (To revert to the factory defaults, highlight **Reset** and press (To).

#### Note:

- If you select one of the factory-set picture modes (Sports, Standard, Movie or PC) and then change the ClearFrame setting, the picture mode automatically changes to Preference
- When ClearFrame is set to Off, the Film Stabilization feature will not be available (grayed out and set to Off).

## **Using the Film Stabilization feature**

This feature helps to eliminate video shaking that can occur when Cinema Mode is set to Film (3:2 pull down process enabled).

#### To turn on Film Stabilization:

- 1 Press on and open the **Video** menu, highlight **Picture Settings** and press .
- 2 Highlight Advanced Picture Settings and press (MR).
- 3 In the Film Stabilization field, select Smooth.
- To save the new settings, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Done** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and press To revert to the factory defaults, highlight **Reset** and the factory defaults are the factory defaults.

#### Note:

- If you select one of the factory-set picture modes
   (Sports, Standard, Movie or PC) and then change the
   Film Stabilization setting, the picture mode automatically
   changes to Preference.
- When Cinema Mode is set to Video or ClearFrame is set to Off, Film Stabilization will be grayed out and set to Off automatically.

## Using CableClear® digital noise reduction

The CableClear® 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 on and open the Video menu, highlight Noise Reduction and press one.
- 2 In the **CableClear** field, select your desired setting.

#### Note:

- If the current input is ANT/CABLE, VIDEO 1, or VIDEO 2, the menu will display the text "CableClear." The available selections are Off, 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, Low, Middle, and High. Low, Middle, and High will reduce the noise in varying degrees, from lowest to highest, respectively.
- To save the new settings, highlight **Done** and press m. To revert to the factory defaults, highlight **Reset** and press m.

## **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 on and open the **Video** menu.
- 2 Highlight Noise Reduction and press (1988).
- 3 Press ▲ or ▼ to highlight the MPEG Noise Reduction field, and then press ◀ or ▶ to select either Off, Low, Middle or High.
- To save the new settings, highlight **Done** and press E. To revert to the factory defaults, highlight **Reset** and press E.

## **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, HDMI 3 or PC. The Game Mode cannot be turned on when any other video input is selected.

#### To turn on Game Mode:

- 1 Press on and open the **Video** menu.
- 2 Press ▲ or ▼ to highlight the **Game Mode** and then press ▶.
- **3** Press  $\triangle$  or  $\nabla$  to select **0n** and then press  $\bigcirc$

## 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 wo on the remote control (respage 33).

# Using the advanced audio settings features

## **Using the QSound® sound feature**

**QSound**<sup>®</sup> is the original name for a positional three-dimensional (3D) sound processing algorithm from QSound Labs that creates 3D audio effects from multiple monophonic sources and sums the outputs to two channels for presentation over regular stereo speakers.

## To adjust the QSound® settings:

- **1** Put the TV in **STERE0** mode (Selecting stereo/SAP broadcasts" on page 42).
- 2 Press on and open the **Audio** menu.
- 3 Highlight Advanced Audio Settings and press (NTB).
- 4 Press ▼ or ▲ to highlight the QSound feature, and then press ◀ or ▶ to turn the QSound effect **On** or **Off**.



**Note:** If the broadcast is monaural, the QSound effect will not work.

## **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 (page 41).

## 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, please unplug the power cords few seconds then replug to try again.

### 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 ( page 32).

### 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 ( Chapter 2).
- Press (PPP) on the remote control or TV and select a valid video input source (PSP page 33). 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 ( page 40).
- If you are using a VCR, make sure TVVCR on the remote control is set correctly (128 page 21).
- Do not connect both a standard video cable and an S-video cable to the VIDEO 1 input at the same time (18) page 13).

## Noisy picture

 If you are watching an analog channel (off-air broadcast or Cable TV), you can set the CableClear® feature to reduce visible interference in the TV picture (ISS page 52).

## Video Input Selection problems

• If the **Input Selection** window does not appear when you press (NPU) on the remote control or TV, press (NPU) 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, ColorStream® HDMI 1, HDMI 2, HDMI 3, PC, or from channels 3 or 4, make sure the Input Lock is set to Off (ISS page 46).

### Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the Tint and/or Color (
   page 40).

### 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.

## **Sound problems**

- Check the antenna/cable connections ( 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 ( page 42).
- If you are not receiving a second audio program from a known SAP source, make sure the MTS feature is set to SAP mode (RS page 42).
- 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 (so page 42).

## **Remote control problems**

- Make sure the remote control is set to the correct device mode (propage 20).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (page 19).
- 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 (Repages 21–25).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure ( page 32).

## **Channel tuning problems**

- Make sure the remote control is set to the correct device mode (ps page 20).
- The channel may have been erased from the channel memory by the Channel Add/Delete feature. Add the channel to the channel memory (repage 29).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel ( page 46).
- If you are unable to tune digital channels, check the antenna configuration ( page 28). If you are still unable to tune digital channels, clear all channels from the channel list ( page 30) and reprogram channels into the channel memory ( page 29). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure ( page 32). Also see "TV stops responding to controls" and "Other problems" ( page 53).

## **Closed caption problems**

- If the program or video you selected is not closed-captioned, no captions will display (1887 page 41).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (repage 41).
- 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 ( page 41).

## Rating blocking (V-Chip) problems

• If you forget your PIN code: While the PIN code entering screen is displayed, press Cour times within 5 seconds. The PIN code you previously stored will be cleared (For page 44).

## **No REGZA-LINK operation**

- The REGZA-LINK feature is available for Toshiba REGZA-LINK compatible devices.
- Make sure the HDMI cables with the HDMI Logo (Harm) are used.
- When the connected REGZA-LINK device does not work correctly after you have changed settings of the device, turn off your TV and unplug the power cord, then plug and turn on again.
- If several devices are connected, REGZA-LINK feature may not operate properly.
- Read the instruction manual furnished with the connected REGZA-LINK device.

## HDMI problems

For HDMI cables

• Make sure to use cables with the HDMI Logo (Harm) (1887 page 15).

For Legacy HDMI source

 Some legacy HDMI sources may not work properly with the latest HDMI TV products, due to new standard adoption.

## 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 Maximum Current** 40XV640U: 2.75 A 46XV640U: 2.95 A

## **Power Consumption**

40XV640U: 0.6 W in standby mode 46XV640U: 0.6 W in standby mode

#### **Audio Power:**

40XV640U: 10 W + 10 W 46XV640U: 10 W + 10 W

**Speaker Type:** Two  $1-3/4 \times 7-7/8$  inches  $(4.3 \times 20 \text{ cm})$ 

## 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

#### **HDMITM INPUT:**

HDMI compliant (type A connector)

HDCP compliant

Audio Lip Sync supported

Suggested formats: See table on the next page.

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

## **DIGITAL AUDIO OUTPUT:**

Optical type

## PC INPUT:

15-Pin D-sub Analog RGB

#### **Dimensions**

40XV640U:

Width: 3'3-1/4 inches (996.6 mm) Height: 2'2-7/8 inches (683.8mm) Depth: 11-1/8 inches (281.6mm)

46XV640U:

Width: 3'8-3/8 inches (1127.5mm) Height: 2'6 inches (762.1 mm) Depth: 1'1-1/8 inches (332.6 mm)

## Mass (Weight)

40XV640U: 41.6 lbs (18.9 kg) 46XV640U: 51.3 lbs (23.3 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)
- · Cleaning cloth

## Acceptable signal formats for PC IN and HDMI terminals

## PC IN signal formats

**Note:** Depending on the connected PC, the following status may occur; incorrect display, false format detection, picture position failure, blur, or judder. But this is not a malfunction of your TV.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	$640 \times 400$	70.090Hz	31.470kHz	25.180MHz
VGA	$640 \times 480$	59.940Hz	31.469kHz	25.175MHz
SVGA	$800 \times 600$	60.317Hz	37.879kHz	40.000MHz
XGA	$1024 \times 768$	60.004Hz	48.363kHz	65.000MHz
WXGA	$1280 \times 768$	59.870Hz	47.776kHz	79.500MHz
	$1360 \times 768$	60.015Hz	47.712kHz	85.500MHz
SXGA	$1280 \times 1024$	60.020Hz	63.981kHz	108.000MHz

## **HDMI** signal formats

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	$640 \times 480$	59.940Hz	31.469kHz	25.175MHz
SVGA	$800 \times 600$	60.317Hz	37.879kHz	40.000MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
WXGA	1280 × 768	59.870Hz	47.776kHz	79.500MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz
SXGA	$1280 \times 1024$	60.020Hz	63.981kHz	108.000MHz
480i	720 × 480i	59.940Hz	15.734kHz	27.000MHz
480p	720 × 480p	59.940Hz	31.469kHz	27.000MHz
720p	1280 × 720p	60.000Hz	45.000kHz	74.250MHz
1080i	1920 × 1080i	60.000Hz	33.750kHz	74.250MHz
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz
1080p	1920 × 1080p	60.000Hz	67.500kHz	148.500MHz

## **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 ELEVISION 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 1-800-631-3811.
- (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

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY ARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS LCD TELEVISION).

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.

[0305]

## **Limited Canadian Warranty**

## for Toshiba Brand Flat Panel 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 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.

- (a) FOR TELEVISIONS 32 INCHES OR LESS: 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.
- (b) FOR TELEVISIONS OVER 32 INCHES: 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, 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.

## **Limited Warranty for Commercial Units**

TCL warrants Televisions that are used for any commercial or business purposes as follows: all 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.

(c) FOR TELEVISIONS 32 INCHES OR LESS: 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 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 either 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:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this Television must be performed by an ASP.
- (3) 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) located/operated in Canada.
- (4) Labour charges for set installation, setup, adjustment of customer controls, and installation 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:
  - a. 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, theft, 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;
  - Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
  - Repair of damage that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;
  - d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
  - e. Service on third party products or service made necessary by use of incompatible third party products;
  - f. Service made necessary by the simultaneous use of this Television and connected equipment;
  - g. 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;
  - Service of a Television on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
  - i. On-site service and repair of the Television; and
  - Damage to the Television caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

### Chapter 9: Appendix

#### Disclaimer and Limitation of Remedy

TO THE EXTENT NOT PRECLUDED BY LAW, ALL OTHER EXPRESS AND IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS FOR THIS TELEVISION, INCLUDING THE IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED. IF THE APPLICABLE LAW, STATUTORY OR OTHERWISE. PRECLUDES THE EXCLUSION OF ANY IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS THEN SUCH IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS ARE OTHERWISE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS WRITTEN LIMITED WARRANTY. TO THE EXTENT NOT PRECLUDED BY LAW, STATUTORY OR OTHERWISE, THIS WRITTEN WARRANTY SUPERCEDES AND SPECIFICALLY DISCLAIMS ANY OTHER WARRANTY, CONDITION OR REPRESENTATION NOT STATED IN THIS WARRANTY, WHETHER MADE BY TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs AND ASPS AND WHETHER MADE ORALLY OR IN WRITING (INCLUDING ANY STATEMENT IN ANY BROCHURE, PRESS RELEASE, ANNOUNCEMENT, ADVERTISEMENT, POINT OF SALE DISPLAY, ETC.).

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.

IF THE TELEVISION FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE DEFECTIVE PART. IN NO EVENT WILL TCL. TOSHIBA CORPORATION, THEIR AFFILIATES, ADRS OR ASPS (THE "RELATED PARTIES") BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES. THIS LIMITATION APPLIES TO DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES OF ANY KIND WHATSOEVER INCLUDING ANY DIRECT OR INDIRECT DAMAGES, DAMAGE TO PROPERTY OR ERSON, LOST PROFITS, LOST SAVINGS, INCONVENIENCE OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), UNDER A STATUTE OR UNDER ANY OTHER LAW OR FORM OR ACTION, OR WHETHER ARISING OUT OF THE USE OF OR INABILITY TO USE THE TELEVISION, VEN IF ANY OF THE RELATED PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY.

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 and negligent and/or fraudulent misrepresentation), 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 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 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 and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the "Excluded 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 1-800-268-3404
- (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**

## Chapter 9: Appendix

A copy of the GPL source code in this product may be obtained by contacting Toshiba Consumer Solutions at (800)631-3811. There will be a charge to cover the costs of providing the source code.

## TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.

Corporate Headquarters: 82 TOTOWA ROAD, WAYNE, NJ 07470, U.S.A. NATIONAL SERVICE DIVISION: 1420-B TOSHIBA DRIVE, LEBANON, TN 37087, U.S.A.

## TOSHIBA OF CANADA LTD.

HEAD OFFICE: 191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA – TEL: (905) 470-5400 SERVICE CENTERS:

TORONTO: 191 McNABB STREET, MARKHAM, ONTARIO L3R 8H2, CANADA – TEL: (905) 470- 5400 MONTREAL: 18050 TRANS CANADA, KIRKLAND, QUEBEC, H9J 4A1, CANADA – TEL: (514) 390-7766 VANCOUVER: 6932 Greenwood Street Burnaby, B.C. V5A 1X8, CANADA – TEL: (604) 303-2500

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