

TOSHIBA

Leading Innovation >>>

Integrated High Definition LED Television User's Guide:

42L6200U

47L6200U

55L6200U

47L7200U

55L7200U

If you need assistance:

Toshiba's Support Web site support.toshiba.com

Toshiba Customer Support Center:

Calling within the United States at (800) 631-3811

Calling from outside the United States at (949) 583-3050

For more information, see "Troubleshooting" on page 176 in this guide.

Owner's Record

The model number and serial number are on the back and side of your television. Record these numbers, whenever you communicate with your Toshiba dealer about this Television.

Model name: _____

Serial number: _____

Register your Toshiba Television at register.toshiba.com

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, contact your TV antenna installer, cable provider, or satellite provider

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Dear Customer,

Thank you for purchasing this Toshiba LED TV. This manual will help you use the many exciting features of your new LED TV. Before operating your LED TV, carefully read this manual completely.

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 OPEN	
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 26) on page 4.

WARNING: If you decide to wall mount this television, always use a mounting bracket that has been Listed by an independent laboratory (such as UL, CSA, ETL) and is appropriate for the size and weight of this television. The use of inappropriate or non-Listed mounting brackets could result in serious bodily injury and/or property damage. See "To Display your LED TV using a Wall Bracket:" on page 5.

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the U.S. NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 33) and 34) on page 4.

CHILD SAFETY:

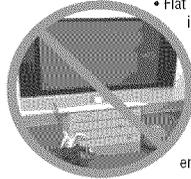
It Makes A Difference How and Where You Use Your Flat Panel Display

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.

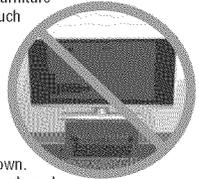


TOSHIBA Cares!

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:

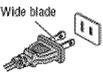
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, 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.CEA.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.
-
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
-
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other products (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.



Wide blade
-
- 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.
-
- 11) Only use attachments/accessories specified by the manufacturer.
-
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.


-
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
-
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

- 14a) **CAUTION:** If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:
 - ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
 - NEVER allow your body to come in contact with any broken glass or liquid from the damaged television. The LCD panel inside the TV contains

glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and contact your doctor immediately.

- 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) CAUTION:

- Do not let children swallow any small parts included on or with the product or play with the plastic bag. Keep the small parts and the plastic bag out of the reach of children.

17) CAUTION:

- Do not let water or other liquids come into contact with the product, as it may result in damage.

18) WARNING:

- To prevent the spread of fire, keep candles or other open flames away from this product at all times.
- Keep the product away from direct sunlight, fire or a heat source such as a heater. This may reduce the product lifetime or result in fire.

Installation, Care, and Service

Installation

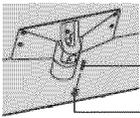
Follow these recommendations and precautions and heed all warnings when installing your TV:

- 19)  **WARNING: NEVER expose batteries to excessive heat such as sunshine, fire, or the like.**
-
- 20) 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.
-
- 21) NEVER route the product's power cord inside a wall or similar enclosed area.
-
- 22) 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.
-
- 23)  **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.

- 24) When selecting a location for the TV,
- NEVER allow any part of the TV to hang over the edge of the supporting furniture,
 - NEVER place the TV on tall furniture (for example, entertainment centers or bookcases) without anchoring both the furniture and the TV to a suitable support,
 - Never place cloth or other material between the TV and the supporting furniture.
 - NEVER allow children to climb on the TV
- 25) 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.
- 26) 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.

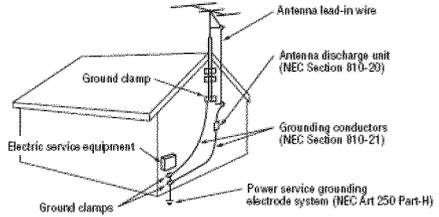


TV back

Mounting screw
(supplied)

Screw hole

- 27) 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.
- 28) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
- on a bed, sofa, rug, or similar surface;
 - too close to drapes, curtains, or walls; or
 - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.
- The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV.
- 29) Always leave a space of at least 4 (four) inches around the TV. The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.
- 30) 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.
- 31) Never overload wall outlets and extension cords.
- 32) Always operate this equipment from a 120V AC, 60 Hz power source.
- 33) 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).



34)

**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:

- 35) 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.

36)

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

- Never use chemicals (such as air fresheners, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combined effects of chemical agents and mechanical stress (such as the weight of the TV). Failure to follow these instructions could result in serious injury and/or permanent damage to TV and TV pedestal.
 - Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth (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.
- 37) Never hit, press, or place anything on the back cover. These actions will damage internal parts.

38)

**WARNING:
RISK OF ELECTRIC SHOCK!**

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

39) During a lightening storm, do not touch the connecting cables or product.

40) 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.

41) 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.

42) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Provider.

43)

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

Never strike the screen with a sharp or heavy object.

- 44) • 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 36) on page 4.

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

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

45) 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.

Choosing a location for your LED 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.*
- 2) 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 see item 26) page 4 for additional details.

To Display your LED TV using a Wall Bracket:

If you decide to wall mount your LED TV, always use a wall bracket Listed by an independent laboratory (such as UL, CSA, ETL) that is appropriate for the size and weight of the TV (see page 2):

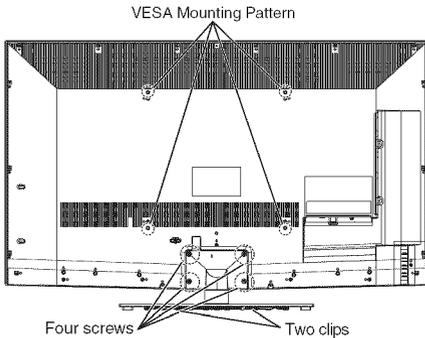
- 1) **CAUTION:** Two people are required for installation.
- 2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
- 3) Remove the screws of the VESA Mounting Pattern show in the table below.
CAUTION: Do not use the screws removed from the back cover to attach the wall mount bracket to the TV.
- 4) Always use the screws supplied or recommended by the wall mount manufacturer.
- 5) 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.
- 6) 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.
- 7) VESA Mounting Pattern

TV Size	Hole Pattern (HxV)	Screw Size
42L6200U	400x400 mm	M6
47L6200U	400x400 mm	M6
55L6200U	400x400 mm	M6
47L7200U	400x400 mm	M6
55L7200U	400x400 mm	M6

(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.*
- Remove the screws shown in the below diagram. This will allow removal of the pedestal stand.
- Once you have removed all of the 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. Secure the TV with the securement clip and a sturdy strap from the hooks on the rear of the TV pedestal to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.

Safety Precautions for 3D glasses

About handling the 3D glasses

- Do not repair, modify, or disassemble the 3D glasses by yourself.

Doing so may cause you to become indisposed while viewing 3D images.

CAUTION:

About the 3D glasses

- Carefully read instructions provided with your display and/or 3D glasses before 3D viewing.
- Do not use the 3D glasses if they are cracked, broken, or not working properly.
Continuing to use them in such a state may cause injury, eye strain, or indisposition.
- Do not drop, exert pressure on, or step on the 3D glasses.
Doing so may damage the glass section which may result in injury. Exposing the 3D glasses to liquid or excessive heat may damage the function.
- Do not stand or walk while wearing 3D glasses.
You may lose your balance which could result in falls or other accidents.

- Do not wear the 3D glasses for any purpose other than viewing 3D programming.
3D glasses do not function as sunglasses.
- If your nose or temple turns red, or you feel any pain or discomfort, stop using the 3D glasses.
Such symptoms may occur when wearing 3D glasses for long periods of time.

Cautions on watching the 3D images

- Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games.
Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition, or has a family history of epilepsy, should contact a health care professional before using the 3D function.
- Avoid using the 3D function when under the influence of alcohol.
- Some individuals may experience health-related complications when exposed to certain 3D images. Parents should monitor and/or supervise their children's use of this 3D technology. If you or your child should experience any problem, immediately stop using this 3D technology and consult a physician.
- If you are ill or feel ill, you should refrain from viewing 3D images, and consult your health care provider as may be appropriate.
- If you experience any of the following symptoms when viewing 3D video images, stop viewing and contact your health care provider:
Convulsions, Eye or muscle twitching, Loss of awareness, Altered vision, Involuntary movements, Disorientation, Eye Strain, Nausea/Vomiting, Dizziness, Headaches, Fatigue.
- If you feel eye fatigue or other discomfort from viewing 3D video images, stop viewing and take a rest until the condition improves.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers.

Therefore, to avoid injury do not place your TV near open stairwells, balconies, or wires.
Also do not sit near objects that could be broken if accidentally hit.

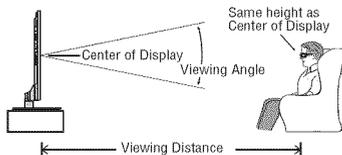
- When viewing 3D images, always wear 3D glasses.
Watching 3D images without specified 3D glasses may cause eye strain.
- Do not wear 3D glasses or watch 3D images from steep angles or while lying down.
The 3D effect is lost in these conditions and eye strain may result.
- It is recommended that the viewer's eyes and 3D glasses are level with the screen.
- If you have prescription eye glasses or contact lenses, wear the 3D glasses over them.
Watching 3D images without appropriate eyewear may cause eye strain.
- If 3D images often appear doubled or if you cannot see the images in 3D, stop viewing.
Continuous viewing may cause eye strain.

- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above.

Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.

- **Watching TV while sitting too close to the screen for an extended period of time may cause eye strain.**
- **For optimal 3D effect and to avoid eye fatigue it is important that you properly select your viewing position.**

The best viewing position is at the indicated viewing distance with your eyes at the same level as the center of the display as shown below. The center of the optimum viewing area varies from set to set. The usable viewing area is generally over the range shown in the table below (actual angle not depicted in drawing).



Model	Viewing angle	Viewing distance
42L6200U	Approx. 20 degrees	Over 62 inches
47L6200U	Approx. 20 degrees	Over 69 inches
55L6200U	Approx. 20 degrees	Over 81 inches
47L7200U	Approx. 26 degrees	Over 69 inches
55L7200U	Approx. 26 degrees	Over 81 inches

Important: If you see a double image, your eyes are either too high or too low in relation to the horizontal center of the screen. Adjust your position so that it is closer to the center to avoid eye fatigue and to enjoy optimum 3D effects.

FCC Declaration of Conformity Compliance Statement (Part 15):

Toshiba television models 42L6200U, 47L6200U, 55L6200U, 47L7200U, and 55L7200U 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 Information Systems, Inc.

9740 Irvine Blvd., Irvine, CA 92618.

Ph: 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 of the following measures:

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

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

Wireless Radio

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible. The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology. If this device is going to be operated in 5.15-5.25GHz frequency range, then it is restricted to an indoor environment only.

Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Canada - Industry Canada Statement

This device complies with RSS-210.

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 of the device.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Wireless Radio

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

IC Radiation Exposure Statement: This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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 [AutoView] picture mode. [AutoView] 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 TV

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

- 1) An afterimage (ghost) may appear on the screen if a fixed, non-moving image appears 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

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- Android and Google Play are trademarks of Google Inc.



- Audyssey EQ® provides clear, accurate and natural sound right out of the box. This technology ensures you enjoy your audio experience as much as your video.



- Audyssey ABX™ technology uses sophisticated driver analysis and low frequency monitoring to extend the range and bass of small speakers. This enables the system to produce lower frequencies than would be possible with a traditional system of the same size.



- Audyssey Dynamic Volume® automatically adjusts volume to provide a consistent sound level between television programs, commercials, and between the loud and soft passages of movies.



- Audyssey Volume Extension™ doubles the volume capability in small speakers while blocking distortion, so your TV gets loud and still sounds great.



- Audyssey Premium Television™ is a suite of technologies that remove the acoustical problems caused by small speakers and drivers. Working together these technologies deliver a better translation of the audio content and make the television experience sound closer to the original.

- Manufactured under license from Audyssey Laboratories, Inc. U.S. and foreign patents pending. Audyssey EQ®, Audyssey ABX™, Audyssey Dynamic Volume®, Audyssey Volume Extension™, and Audyssey Premium Television™ are registered and licensed trademarks of Audyssey Laboratories, Inc.
- Blu-ray Disc™, Blu-ray™, and the logos are trademarks of the Blu-ray Disc Association
- CinemaNow is a registered trademark of Best Buy, Inc.
- ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.



- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



- www.espatial.com

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- iTunes Store is a trademark of Apple Inc., registered in the U.S. and other countries.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Netflix is a registered trademark of Netflix, Inc.



- Rovi is a trademark of Rovi Corporation and/or its subsidiaries. The Rovi Guide system is manufactured under license from Rovi Corporation and/or its subsidiaries.
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Chapter 1

Introduction

Safety icons

This manual contains safety instructions that must be observed to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and icons highlight these instructions as follows:

▲ DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE Provides important information.

Features

- ❖ **Integrated digital tuning (8VSB ATSC and QAM)**—Eliminates the need for a separate digital converter set-top box (in most cases).
- ❖ **1920 x 1080 output resolution.**
- ❖ **Four HDMI®**—Digital, High-Definition Multimedia Interfaces with 1080p input support
- ❖ **HDMI® capabilities**
 - ARC (Audio Return Channel)**—Enables the audio signal of the TV to be sent to an AV amplifier via an HDMI® cable.
 - RGB Range**—Adjusts RGB full range signal automatically.
- ❖ **HDMI® CEC Control**—Allows control of external devices from the TV remote via HDMI® connection
- ❖ **ColorStream® HD**—High-resolution component video input.
- ❖ **Digital Audio Out**—Optical audio connection with Dolby® Digital optical output format, see “Connecting a digital audio system” on page 34.
- ❖ **PC IN (Analog RGB)**—Computer terminal, see “Connecting a computer” on page 39.
- ❖ **IR Blaster Out**— Controls infrared remote controlled devices from the TV.
- ❖ **Built-in WLAN**—Allows the television to access your home wireless network without an external Dual Band WLAN Adapter.
- ❖ **ColorMaster™**—Allows you to adjust the TV’s standard colors, see “ColorMaster™” on page 121.
- ❖ **ClearScan®** —Provides picture clarity for fast motion video using new Backlight Scanning technology.
- ❖ **AutoView®**—Allows you to automatically adjust picture settings based on ambient light conditions and input signal content, see “ENERGY STAR® User Information” on page 8.
- ❖ **Dynamic Volume (Audyssey Dynamic Volume®)**—Eliminates inconsistent TV volume when changing channels or viewing commercials, see “Audyssey Premium Television™” on page 127.
- ❖ **MediaShare (Media Player)**—Allows you to view photo files and play music or movie files, see “ePORTAL MediaShare (Videos, Music, and Photos)” on page 157.

- ❖ **3D capability**—Allows you to view and experience 3D content on the television while using special glasses.
- ❖ **ENERGY STAR® qualified**



Overview of installation, setup, and use

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

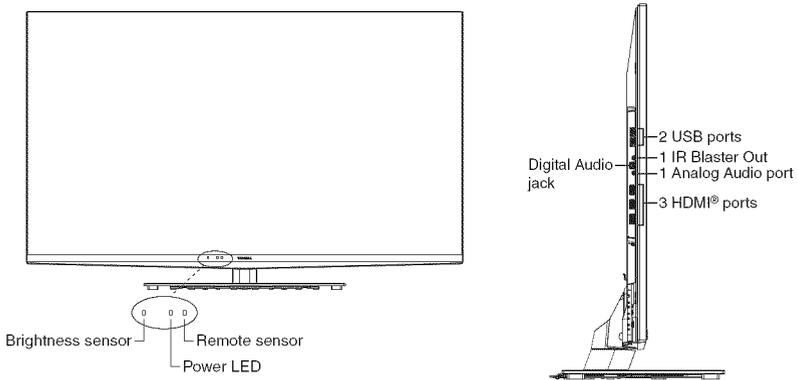
- 1 Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.
- 2 To choose a location for the TV:
 - ❖ Read “Important notes about your TV” on page 8.
 - ❖ Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure, see 24) on page 4.
 - ❖ 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, see “Overview of cable types” on page 27.
- 5 Connect your other electronic device(s) to the TV, see “Connecting Your TV” on page 27.
- 6 Install the batteries in the remote control, see “Installing batteries” on page 46
- 7 See “Using the Remote Control” on page 46 for an overview of the buttons on the remote control.
- 8 After connecting all cables and devices, plug in the power cords for your TV and other devices. Then press the **POWER** button on the TV control panel or remote control to turn on the TV. If the TV stops responding to the buttons on the remote control or TV control panel and you cannot turn the TV off or

TV front and side panel controls and connections

on, unplug the power cords for a few seconds and then plug them in and try again.

- 9 See “Navigating the menu system” on page 61 for a quick overview of navigating the TV’s menu system.
- 10 Program channels into the TV’s channel memory, see “Auto Tuning” on page 66.
- 11 For details on using the TV’s features, see chapters 6, 7, and 8.
- 12 For help, refer to “Troubleshooting” on page 176.
- 13 For technical specifications, see “Specifications” on page 186.

TV front and side panel controls and connections



(Sample Illustration) L6200U/L7200U Series front and side panel controls and connections

Front panel

- 1 **Power On/Standby LED**—Power indicator light, (glows green when the TV power is On).
- 2 **Brightness Sensor**—This sensor detects the ambient light conditions to optimize the backlighting levels, see “Auto Brightness Sensor” on page 120.
- 3 **Remote Sensor**—Point the remote control toward this remote sensor, see “Remote control effective range” on page 48.

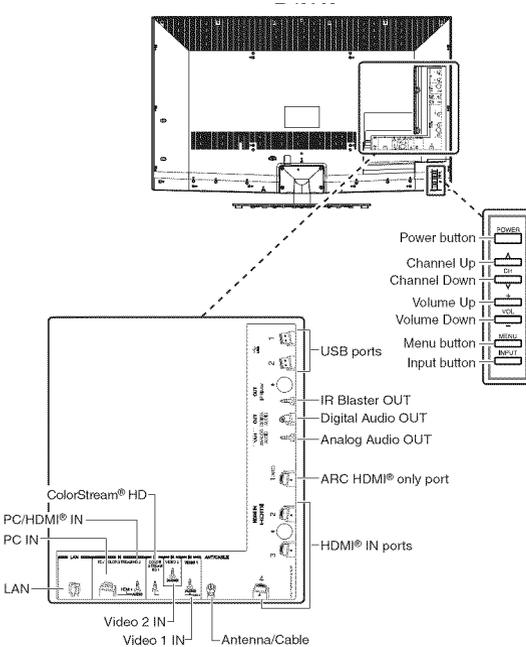
Left side

- 4 **2 USB Ports**—Used to access video, music, or photo files with USB device.

- 5 **IR Blaster OUT**—Used to connect and control infrared remote-controlled devices.
- 6 **Digital Audio Jack**—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 **Analog Audio Port**—Analog audio outputs for connecting an audio amplifier.
- 8 **3 HDMI Ports**—High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI® device or uncompressed digital video from a DVI device. HDMI® connection is necessary to receive 1080p signals.

TV back panel controls and connections

For explanations of cable types and connections, see “Connecting Your TV” on page 27.



(Sample Illustration) L6200U/L7200U Series back panel controls and connections

Back panel controls

- 1 **POWER**—Turns the TV **On** and **Off**.
- 2 **VOL +/-** —Adjusts the volume level. When an on-screen menu appears, these keys function as (◀/▶) menu navigation buttons.
- 3 **CH Up/Down arrow buttons**—Changes the channel. When an on-screen menu appears, these buttons function as (▲/▼) menu navigation buttons.
- 4 **MENU**—Accesses the menu. When an on-screen menu appears, the **MENU** button on the TV's control panel functions as the **BACK** button.
- 5 **INPUT**—Changes the source you are viewing. When an on-screen menu appears, the **INPUT** button on the TV's control panel functions as the **OK** button.

Back panel connections

- 6 **LAN IN**—Connects the TV to your home network.
- 7 **PC/ColorStream HD2 IN**—For use when connecting a personal computer.
- 8 **PC/HDMI-4 (Audio) IN**—PC audio input terminals are shared with HDMI[®]-4 analog audio input terminals, and their use can be configured in the Configuring shared inputs menu, see “Configuring shared inputs” on page 70.
- 9 **ColorStream[®] HD1 IN**—These include standard A/V connections, see “Connecting DVD to ColorStream[®] or VCR to composite video” on page 31.
- 10 **Video 2 IN**—Video input.
- 11 **Video 1 IN**—Video input.
- 12 **ANT/CABLE**—Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.
- 13 **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. HDMI[®] connection is necessary to receive 1080p signals.
- 14 **ARC HDMI[®] only port**—Audio Return Channel (ARC) enables the audio signal of the TV to be sent to an AV amplifier via the HDMI cable.

- 15 Analog Audio OUT**—Analog audio outputs for connecting an audio amplifier.
 - 16 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.
 - 17 IR Blaster OUT**—Used to connect and control infrared remote controlled devices.
 - 18 2 USB ports**—To access video, music, or photo files with USB device.
-

NOTE

Component/Standard (composite) video cables carry only video information; separate audio cables are required.

Chapter 2

Connecting Your TV

Overview of cable types

Before purchasing cables, know the connector types your devices require. You can purchase cables from most stores that sell audio/video devices.

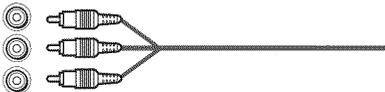
Coaxial cable (F-type)



(Sample Illustration) Coaxial cable

Coaxial (F-type) cable connects 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)

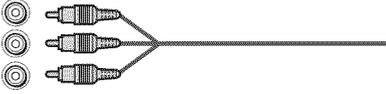


(Sample Illustration) Standard AV cables

Standard A/V cables (composite video) usually come in sets of three, and connects to 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.

Component video cables (red/green/blue)



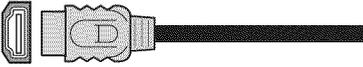
(Sample Illustration) Component video cables

Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream[®] 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 quality than composite video cables.

HDMI[®] cable (with HDMI Logo)



(Sample Illustration) HDMI[®] cable

HDMI[®] (High-Definition Multimedia Interface) cable connects to devices that have an HDMI[®] output. An HDMI[®] cable delivers digital audio and video in its native format. Separate audio cables are not required, see “Connect a computer to the TV’s HDMI[®] terminal” on page 41.

NOTE

HDMI[®] cables provide the best audio and picture quality.

Dual-wand IR blaster cable

Connect the dual-wand IR blaster cable to the IR blaster terminal to control infrared remote controlled devices from the TV.

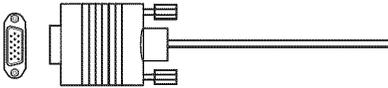
Optical audio cable



(Sample Illustration) Optical audio cable

Optical audio cable connects receivers with Dolby® Digital or PCM (pulse-code modulation) optical audio input to the TV's **Digital Audio Out** terminal, see “Connecting a digital audio system” on page 34.

Analog RGB (15-pin) computer cable



(Sample Illustration) Analog RGB (15-pin) computer cable

Analog RGB (15-pin) computer cable connects a computer to the TV's **PC IN** terminal, see “Connecting a computer to the TV's PC IN terminal:” on page 39.

NOTE Separate audio cables are required.

3.5mm Stereo to RCA Y-cable



(Sample Illustration) 3.5mm Stereo to RCA Y-cable

3.5mm Stereo to RCA Y-cable connects an audio signal from DVI device to TV.

LAN cable



(Sample Illustration) LAN cable

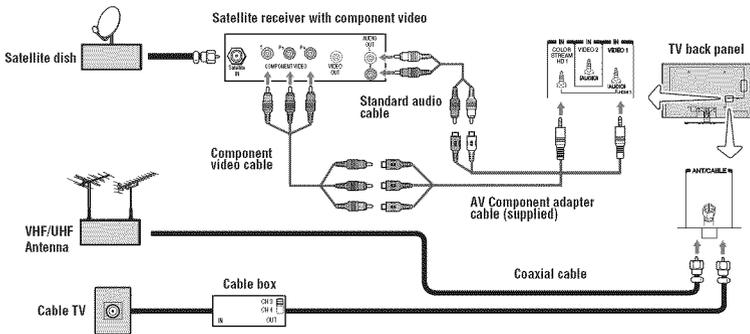
Standard LAN cable connects the TV to your home network, see “Connecting the TV to a home network with an Internet connection - wired” on page 43.

Crossover LAN cable connects the TV directly to a computer, see “Connecting the TV directly to a computer without an Internet connection” on page 42.

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 an antenna, satellite receiver, and cable TV box



(Sample Illustration) L6200U/L7200U Series—Connecting to an antenna, satellite receiver, and cable TV box

Items needed:

- ❖ Coaxial cables
- ❖ Standard AV cables
- ❖ Component video cables (red/green/blue)

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

To view basic and premium cable channels:

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.

Connecting DVD to ColorStream® or VCR to composite video

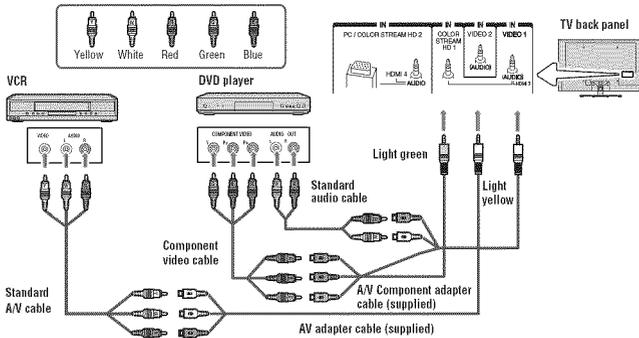
To view the VCR or camcorder video:

Turn On the VCR or camcorder video. Select **VIDEO** input source on the TV.*

*To select the video input source, press the **INPUT** button on the remote control, see “Selecting the video input to view” on page 86.

NOTE

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 DVD to ColorStream® or VCR to composite video

(Sample Illustration) L6200U/L7200U Series—Connecting a DVD with ColorStream® or a VCR with composite video

Items needed:

- ❖ Coaxial cables
- ❖ Standard AV cables
- ❖ Standard audio cables
- ❖ Composite or component video cables
 - ❖ You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to the **COLOR STREAM HD** terminal in the TV. The **COLOR STREAM HD** terminal can be used to display Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. Note that 1080p is not supported. Check the User’s Guide of the DVD player in order to determine the best output signal available.

-
- ❖ If your DVD player or satellite receiver does not have component video, connect a standard A/V cable to the **AUDIO/VIDEO** terminal. If your DVD player has HDMI® video, see “Connecting an HDMI® or DVI device to the HDMI® input” on page 35.
-

NOTE When you use ColorStream® HD or Video, please switch to the appropriate AV mode.

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 video** input source on the TV.*

To view satellite programs using the component video connections:

Turn ON the satellite receiver. Select the **ColorStream® HD 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** 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 video** input source on the TV* to view the DVD.

*To select the video input source, press the **INPUT** button on the remote control, see “Selecting the video input to view” on page 86.

NOTE 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 remote IR devices

Using the IR blaster OUT terminal

You can use the TV’s IR OUT terminal to remotely operate many infrared remote-controlled devices enclosed in an entertainment center or similar cabinet.

Items needed:

- ❖ Dual-wand IR blaster cable (see “Dual-wand IR blaster cable” on page 29)
- ❖ Other cables as required to connect the device(s) to the TV (see “Overview of cable types” on page 27)

See the remote IR blaster setup section.

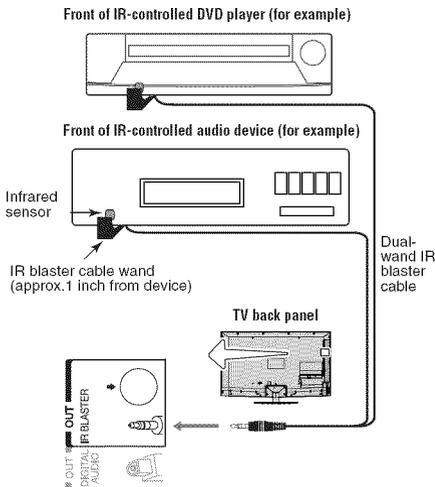
To connect the IR blaster cable:

- 1 Locate the infrared sensor on the front of your device. This sensor is marked on some devices. If you are having issues locating the device's infrared sensor, see “If you cannot locate the device's infrared sensor:” on page 34.
- 2 Align one of the IR blaster cable's wands approximately 1 inch away from the infrared sensor on the front of the device and attach it using double-sided mounting tape. If you have a second device, attach the second wand in a similar manner.

NOTE

If you do not have a second device, coil the second wand with a rubber band and leave it behind the TV.

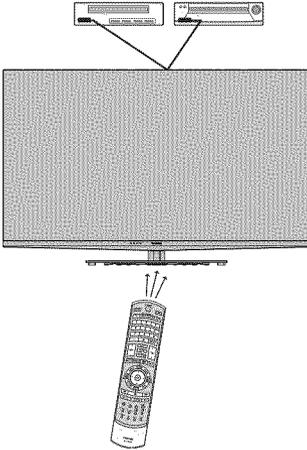
- 3 Plug the IR blaster cable's plug into the TV's IR Blaster Out terminal.



(Sample Illustration) L6200U/L7200U Series—Using the IR blaster OUT terminal

To control the device(s):

Point the TV remote control toward the front of the TV and press the button for the desired function. The signal passes from the remote control through the TV to the device via the IR Blaster cable. For more information, see “IR Blaster Setup” on page 55.



(Sample Illustration) Controlling the device(s) - remote control

NOTE The IR pass-through feature does not support all IR controlled devices. Satisfactory quality may not be attainable with certain devices.

If you cannot locate the device’s infrared sensor:

- 1 Turn off the device.
- 2 Starting at the device’s lower-left corner, place the end of the device’s remote control (with the infrared emitter) so it touches the front of the device. Press the **POWER** button. (Do not use the TV’s remote control for this step.)
- 3 If the device turns on, the sensor is located where the remote control touched the device.
- 4 If the device does not turn on, move the remote control slightly to the right and press the **POWER** button again.
- 5 Repeat the previous steps if necessary.

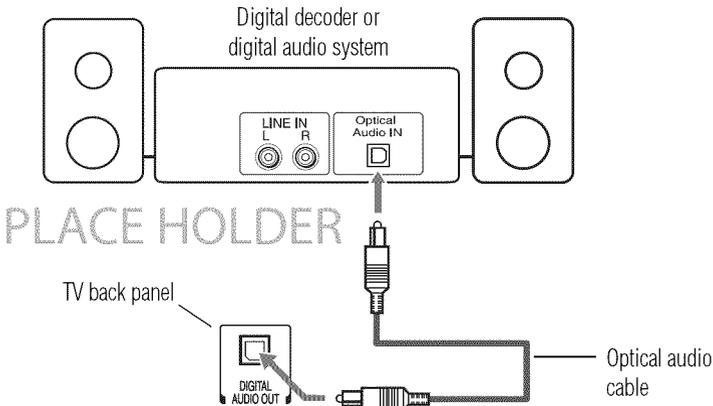
Connecting a digital audio system

The TV’s Digital Audio Out terminal outputs a Dolby® Digital or 2-channel down-mixed PCM (pulse-code modulation) signal for

Connecting an HDMI® or DVI device to the HDMI® input

use with an external Dolby Digital decoder or other external audio system with optical audio input.

You will need an Optical audio cable (Use an optical audio cable that has the larger “TosLink” connector and not the smaller “mini-optical” connector.)



(Sample Illustration) L6200U/L7200U Series—Connecting a digital audio system

Before controlling the audio, see “Selecting the optical audio output format” on page 126.

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.

The Dolby Digital format is available in the following situations:

- ❖ When tuned to a digital RF channel
 - ❖ When an HDMI input is used
 - ❖ When Media Player/Renderer products are used
-

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[1] consumer electronic devices (such as a set-top box or DVD player with HDMI® or DVI output).

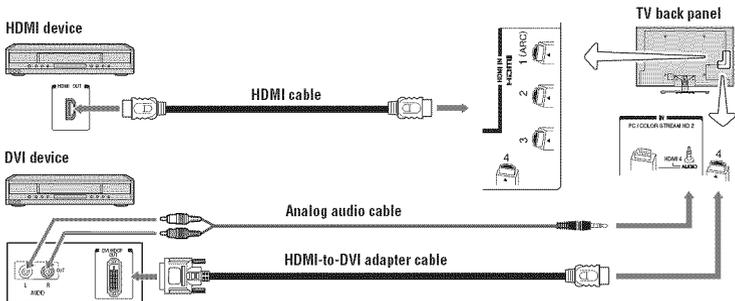
The HDMI® input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see “HDMI® signal formats” on page 192.

The supported Audio formats are Linear PCM and Dolby® Digital, sampling rate 32/44.1/ 48 kHz.

NOTE To connect a PC to the HDMI® input, see “Connect a computer to the TV’s HDMI® terminal” on page 41.

To connect an HDMI® device, you will need one HDMI® cable (type A connector) per HDMI® device:

- ❖ For proper operation, it is recommended that you use an HDMI® cable with the HDMI® Logo (**HDMI**).
- ❖ To display an 1080ip/60Hz signal format, you will need a High Speed HDMI® cable. A conventional HDMI®/DVI cable may not work properly.
- ❖ HDMI® cables transfer both video and audio. Separate analog audio cables are not required (see illustration).



(Sample Illustration) L6200U/L7200U Series—Connecting an HDMI® or DVI device to the HDMI® Input

To view the HDMI® device video:

Select **HDMI 1**, **HDMI 2**, **HDMI 3** or **HDMI 4** video input source on the TV. (Press the **INPUT** button on the remote control. For

more information, see “Selecting the video input to view” on page 86.

To connect a DVI device, you will need:

- ❖ HDMI® to DVI adapter cable
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).
- ❖ 3.5mm Stereo to RCA Y-cable
An HDMI® to DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).

NOTE

To ensure that the HDMI® or DVI device is reset properly:

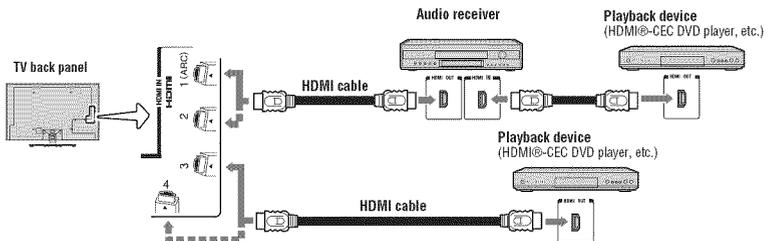
- ❖ When turning on your electronic components, turn on the TV first, and then the HDMI® or DVI device.
- ❖ When turning off your electronic components, turn off the HDMI® or DVI device first, and then the TV.

NOTE

[1] 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 TV.

Using the TV remote and HDMI® CEC Control to control other devices

To control the basic functions of connected audio/video devices using the TV’s remote control, connect an HDMI® CEC compatible audio receiver or playback device. The HDMI® CEC Control feature uses CEC technology as regulated by the HDMI® standard.



(Sample Illustration) L6200U/L7200U Series—Connecting an HDMI® CEC compatible audio receiver and playback device

To connect an audio receiver and playback devices, you will need HDMI® cables, see “HDMI® cable (with HDMI Logo)” on page 28.

NOTE If several devices are connected, HDMI® CEC Control feature may not operate properly, see “HDMI® CEC Control input source selection” on page 100.

For proper operation, it is recommended that you use HDMI® cables with the HDMI® Logo (**HDMI**).

Before controlling the devices:

- ❖ For an explanation of setup and operations, see “Other HDMI® CEC Control functions” on page 101.
 - ❖ Configure the connected devices. See each device’s operation manual.
-

NOTE This feature is limited to models incorporating Toshiba’s HDMI® CEC Control feature. However, Toshiba is not liable for those operations. See the individual instruction manuals for compatibility information.

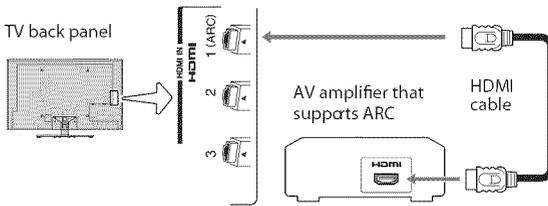
When using an external AV amplifier the picture and sound may not be properly synchronized. In this case, adjust the delay time of the sound on the AV amplifier.

NOTE The control range of the delay time differs according to the device you use.

Connecting an HDMI® audio system

If your HDMI® amplifier supports ARC, audio from the TV can be sent to the amplifier via an existing HDMI® cable.

You will need an HDMI® cable.



(Sample Illustration) L6200U/L7200U Series— Connecting to HDMI® ARC

HDMI®'s ARC (Audio Return Channel) feature

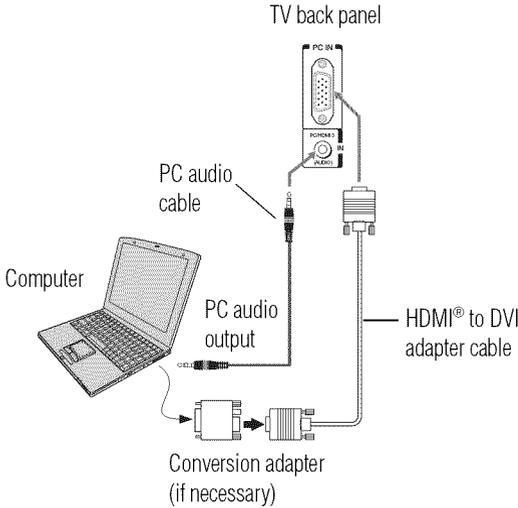
This feature enables the audio signal of the TV to be sent to an AV amplifier via the HDMI® cable. It will not be necessary to connect a cable from the audio output of the TV to the audio input of the AV amplifier to reproduce the audio received from the tuner of the TV through the AV amplifier.

Connecting a computer

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

Connecting a computer to the TV's PC IN terminal:

When connecting a computer to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable. For more information, see “Overview of cable types” on page 27.



(Sample Illustration) L6200U/L7200U Series—Connecting to a computer through analog RGB cable

To use a computer, set the monitor output resolution on the computer before connecting it to the TV. The supported signal formats are VGA, SVGA, XGA, WXGA and SXGA. For detailed signal specifications, see “Acceptable signal formats for PC IN, HDMI®, and 3D” on page 191.

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

To display the optimum picture, use the computer setting feature, see “Using your computer with the TV” on page 102.

- NOTE**
- ❖ The PC audio input terminal on the TV is shared with the HDMI 4 and ColorStream® HD2 terminal. For configuration information, see “Setting the computer audio” on page 103.
 - ❖ Some computer models cannot be connected to this TV.
 - ❖ If the computer has a compatible mini D-sub15-pin terminal, an adapter is not required.
 - ❖ Depending on the content's title and the computer's specifications, 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:

<i>Pin No.:</i>	<i>Signal Name:</i>	<i>Pin No.:</i>	<i>Signal Name:</i>	<i>Pin No.:</i>	<i>Signal Name:</i>
1	R	6	Ground	11	NC
2	G	7	Ground	12	NC
3	B	8	Ground	13	H-sync
4	NC*	9	NC	14	V-sync
5	NC	10	Ground	15	NC

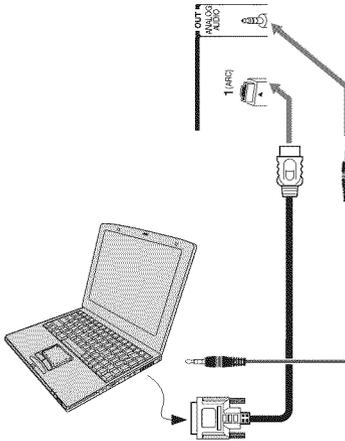
*NC=Not connected

Connect a computer to the TV's HDMI® terminal

When connecting a computer with a DVI port to the HDMI® terminal on the TV, use an HDMI® to DVI adapter cable and analog audio cables.

When connecting a computer with an HDMI® port, use an HDMI® cable (type A connector). Separate analog audio cables may not be necessary, depending on computer hardware and setup.

For more information, see “Overview of cable types” on page 27.



(Sample Illustration) L6200U/L7200U Series—Connecting to an HDMI® terminal

The supported signal formats are VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz). For signal specifications, see “Acceptable signal formats for PC IN, HDMI®, and 3D” on page 191.

- NOTE**
- ❖ The edges of the picture 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 (i.e. no overscanning).

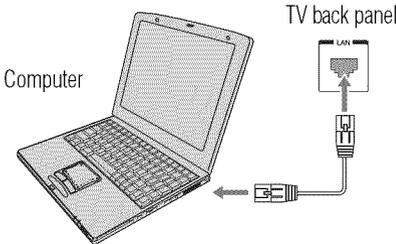
Connecting to a home network

The LAN port allows your Toshiba TV to connect to your home network.

You can use this home network to access photos, movies, and music files that are stored on a Connected Media Server and play them on your TV.

Connecting the TV directly to a computer without an Internet connection

You will need a Crossover LAN cable.

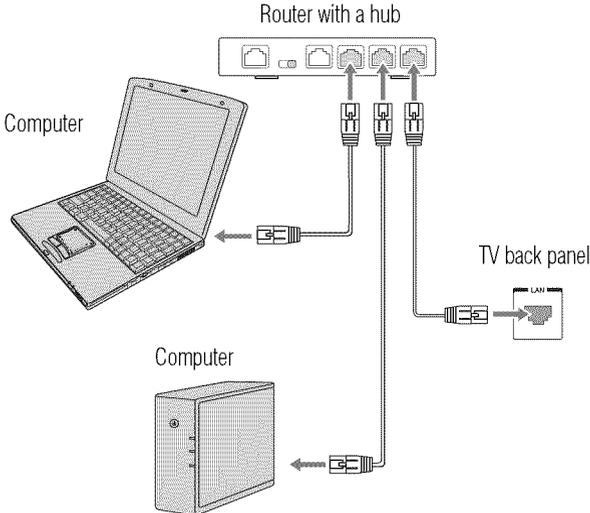


(Sample Illustration) L6200U/L7200U Series—Connecting a computer without Internet connection

Connecting the TV to a home network without an Internet connection

Items needed:

- ❖ Standard LAN cables
- ❖ Router with a hub

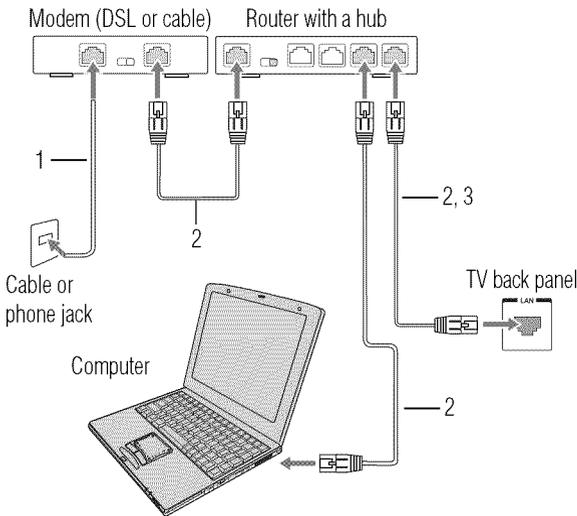


(Sample Illustration) L6200U/L7200U Series—Connecting a network without Internet connection

Connecting the TV to a home network with an Internet connection - wired

Items needed:

- ❖ Coaxial or telephone cable (depending on your modem type)
- ❖ Standard LAN cables
- ❖ Router with Hub
- ❖ Modem (DSL or cable)



(Sample Illustration) L6200U/L7200U Series—Connecting with Internet connection - wired

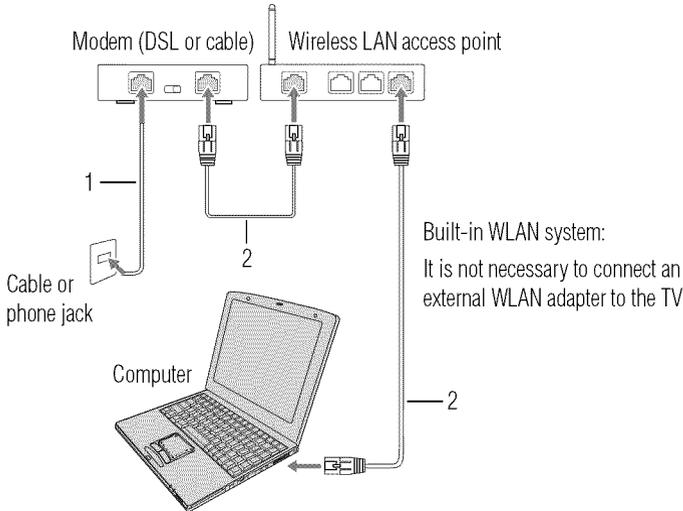
Item:	Description:
1	Coaxial or telephone cable (depending on your modem type)
2	Standard LAN cable
3	Do NOT connect a phone jack directly to the TV's LAN port.

Connecting the TV to a home network with an Internet connection - wireless

Items needed:

- ❖ Coaxial or telephone cable (depending on your modem type)
- ❖ Standard LAN cables

- ❖ Wireless LAN access point or wireless router
- ❖ Modem (DSL or cable)



(Sample Illustration) L6200U/L7200U Series—Connecting with Internet connection - wireless

Item: *Description:*

1	Coaxial or telephone cable (depending on your modem type)
2	Standard LAN cable

The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed.

NOTE

The Built-in WLAN Adapter is based on the IEEE 802.11n specification and may not be fully compatible with, or support some features (e.g., security) of certain Wi-Fi equipment that are based on the draft version of IEEE 802.11n.

Chapter 3

Using the Remote Control

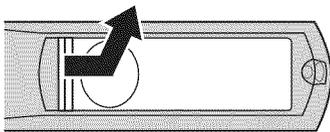
Controlling other devices

The TV's remote control can operate other devices as described in the IR Blaster section on page 55.

Installing batteries

To install batteries:

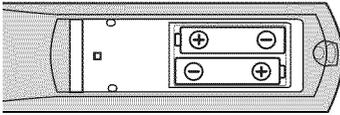
- 1 Pull up to open the cover.



(Sample Illustration) Removing the battery cover

- 2 Install two AA size batteries.

NOTE Use carbon zinc batteries or alkaline batteries.



(Sample Illustration) installing the batteries

3 Slide on the cover.

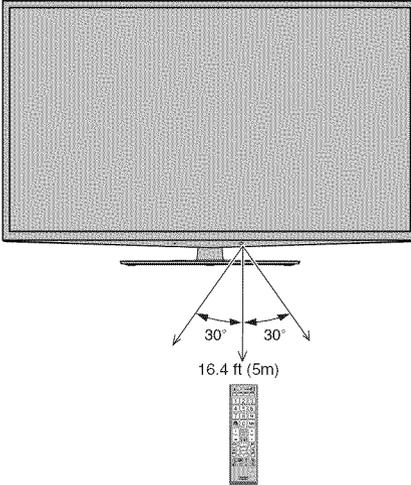
CAUTION Do not expose batteries to excessive heat such as sunshine, fire, etc.

- NOTE**
- ❖ Every time you change the batteries, you must reprogram the remote.
 - ❖ Dispose of batteries in a designated disposal area.
 - ❖ Always consider the environment when disposing of batteries. Always follow applicable laws and regulations.
 - ❖ If the remote does not operate correctly, or if the operating range is reduced, replace the batteries.
 - ❖ Always replace both batteries with new ones. Never mix battery types or use new and used batteries together.
 - ❖ Always remove batteries from the remote if they are dead or if the remote control is not to be used for an extended period of time. This prevents battery acid from leaking into the battery compartment
-

Remote control effective range

- 1 For optimum performance, aim the remote control directly at the TV and make sure there are no obstructions between the remote control and the TV.

42/47/55"

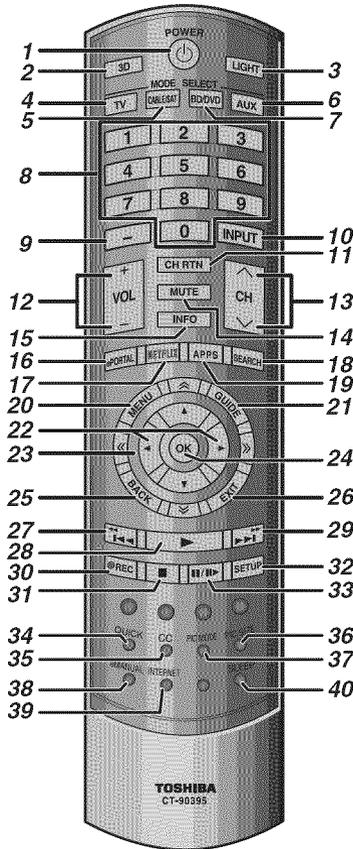


(Sample Illustration) Remote control effective range

Learning about the remote control

Only the buttons used to operate the TV are described in this section.

For the HDMI® CEC Control functions, see “Using HDMI® CEC Control” on page 97.



(Sample Illustration) Remote control overview

NOTE

The L6200U series remote has no **LIGHT** button. The **LIGHT** button is only available on the L7200U series remote.

NOTE The error message “NOT AVAILABLE” may appear if you press a key for a function that is not available.

<i>Item:</i>	<i>Description:</i>	<i>Function:</i>	<i>Item:</i>	<i>Description:</i>	<i>Function:</i>
1	POWER button	Turns the TV On and Off. When the TV is on, the power LED indicator on the TV front glows green.	21	GUIDE button	Launches the MediaGuide application on-screen.
2	3D button	Accesses the 3D options.	22	{◀/▶} buttons	Selects on-screen menu options.
3	Light button (Model L7200U)	Illuminates the keypad for five seconds.	23	{▲/▼/◀/▶}	Selects or adjusts programming buttons menus when a menu is on-screen.
3	Sleep button (Model L6200U)	Accesses the sleep timer.	24	OK button	Selects the highlighted items on the screen.
4	TV button	Switches to the TV input assigned to each mode key: TV, CABLE/SAT, BD/DVD, or AUX.	25	BACK button	Returns to the previous screen.
5	Cable/Satellite button		26	EXIT button	Closes on-screen menus.
6	Auxillary button		27	REWIND button	Short press rewinds/fast forwards.
7	BD/DVD button		28	PLAY button	
8	Channel Number buttons (0-9)	Directly tunes channels.	29	FAST FOWARD	
9	(-) button	Enters 2-part channel numbers.	30	REC button	Used for TV, Cable/Sat, BD/DVD, Aux devices
10	INPUT button	Selects the video input source.	31	STOP button	Stops playback
11	CH RTN button	Returns to the last viewed channel or source.	32	SETUP button	Used for TV, Cable/Sat, BD/DVD, Aux devices
12	VOL (+/-) buttons	Adjusts the volume level.	33	PAUSE button	Pauses playback
13	CH (▲/▼) buttons	Cycles through programmed channels.	34	QUICK button	Launches the Quick menu.
14	MUTE button	Reduces or turns off the sound.	35	CC button	Accesses the closed-caption feature.
15	INFO button	Displays TV status information as well as program details, when available.	36	PIC SIZE button	Cycles through the picture sizes.
16	ePORTAL button	Launches the ePortal page on-screen.	37	PIC MODE button	Selects the picture mode.
17	NETFLIX button	Launches the Netflix® application on-screen.	38	eMANUAL button	Launches the eMANUAL application on-screen. Internet connection required.
18	SEARCH button	Accesses the SearchAll function.	39	INTERNET button	Launches the web browser on-screen.
19	APPS button	Launches the Apps window on-screen.	40	SLEEP button (Model L7200U)	Accesses the sleep timer.
20	MENU button	Accesses the main TV menu system.			

Chapter 4

Initial Setup and Menu

Initial setup

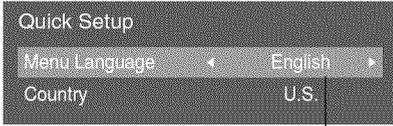
When you first turn on or reset the TV, the Initial Setup window appears.

- NOTE**
- ❖ You can stop Initial Setup by pressing the **EXIT** button. However, if you do not finish Initial Setup, the Initial Setup screen will appear every time you turn on your TV. To finish Initial Setup, see “Changing initial settings” on page 64.
 - ❖ The **EXIT** button does not work until Menu Language/Country, Time Zone/Daylight Saving Time, and Store/Home Mode have been set.
-

Performing the initial setup

1 Menu Language/Country

Select a language and country. Press **OK**.



Language

(Sample Illustration) Selecting Menu Language/Country

2 Time Zone

Select a time zone.

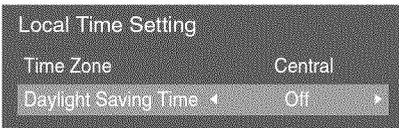


Time zone

(Sample Illustration) Selecting Time Zone

3 Daylight Saving Time

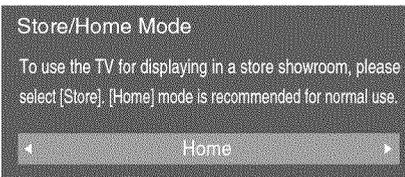
Select **On** or **Off**. Press **OK**.



(Sample Illustration) Selecting Daylight Saving Time

4 Store/Home Mode

Select **Store** or **Home**. Press **OK**.



(Sample Illustration) Selecting a location

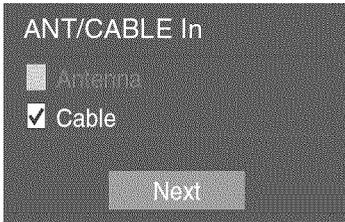
5 ANT/CABLE

To select **Antenna**, first select **Antenna**. Then select **Next**.



(Sample Illustration) Selecting Antenna

To select **Cable**, first select **Cable**. Then select **Next**.



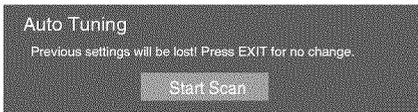
(Sample Illustration) Selecting Cable

NOTE

If you do not want to scan channels, you do not need to make a selection for ANT/CABLE. Select **Next**, and then press **OK** to skip this step.

6 Start Scan

Select **Start Scan**. Press **OK**.

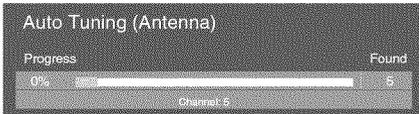


(Sample Illustration) Start Scan

NOTE

If you want to stop scanning, pressing the **EXIT** button while scanning is in process.

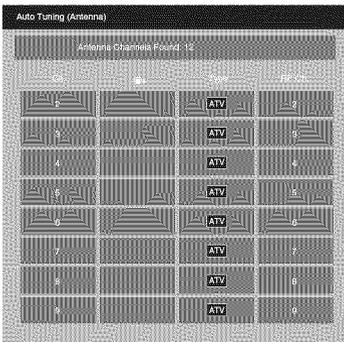
While scanning is in progress, the Auto Tuning Progress Screen appears.



(Sample Illustration) Auto Tuning Progress Screen

After scanning is complete, the auto tuning results screen (such as the one below) will appear.

Press **OK** or **EXIT**.



(Sample Illustration) Auto Tuning Results screen

NOTE Although they may be displayed in the above list, encrypted channels cannot be viewed.

If some channels are not found after scanning:

- ❖ Check the antenna/cable connections, and scan again.
- ❖ Connect the TV to the antenna or cable box directly and scan again.
 - 1 Press the **MENU** button. Select **SETTINGS, SETUP, Quick Setup**, and then press **OK**.
A confirmation message appears.
 - 2 Press the (◀/▶ arrow) buttons to select **Yes**. Press **OK**.
 - 3 Repeat setup to Step 6.
 - ❖ If you selected **Antenna** previously, select **Cable**.
 - ❖ If you selected **Cable** previously, select **Antenna**.

- 4 Scan again.

IR Blaster Setup

During the Initial Setup, the IR Blaster screen will appear with the message, “IR Blaster setup will now begin. If you wish to skip, please select Skip.”

To start the IR Blaster setup, select **Next** on the screen, or to skip the setup, select **Skip**. If you wish to skip this setup, you can setup the IR Blaster at any time through the PREFERENCES menu.

NOTE The IR Blaster may not work with some devices, and it may not control certain features on your external devices.

- 1 The IR Blaster Setup screen will appear and you must choose what devices to setup.
- 2 Select the **Add** button on the screen to add devices.
- 3 The IR Blaster Setup Add devices screen will appear. The Device Type field will be highlighted.
- 4 Use the (◀/▶ arrow) buttons to select:
 - ❖ Cable Box
 - ❖ Satellite Box
 - ❖ VCR
 - ❖ Blu-ray, DVD Player
 - ❖ Audio
 - ❖ CD Player
 - ❖ Video Accessory

The first column on the screen lists the subsequent fields including: Brand, Select Device, Model Name, TV Input, etc.

- 5 Use the (▲/▼ arrow) buttons to select the options in the second column that correspond to the IR device currently being setup. Some fields will have screens with selectable lists of items, while other fields may require using the keyboard to enter the information.
- 6 To select the Code Set, use the (◀/▶ arrow) buttons to select the codes set for the device.

NOTE If a model has more than one Code Set, a message will appear stating "This model has more than one Code Set. Please select and test your preferred Code Set." You will need to choose a code set using the (◀/▶ arrow) buttons and perform the Test option to ensure the correct Code Set has been selected.

NOTE The Test option is available when the Device Type, Brand, Model Name/Code Set have all been setup.

- 7 To select the TV Input to which the IR device is connected, use the (◀/▶ arrow) buttons to select from the following options:
- ❖ (Only audio is selected as this device type)
 - ❖ Video 1
 - ❖ Video 2
 - ❖ ColorStream HD 1
 - ❖ Colorstream HD 2 (If selected)
 - ❖ HDMI 1
 - ❖ HDMI 2
 - ❖ HDMI 3
 - ❖ HDMI 4
 - ❖ PC (if selected).
-

NOTE PC or ColorStream HD2 inputs depend on the shared PC input.

- 8 To set up the Guide Control, use the (◀/▶ arrow) buttons to select:
- ❖ TV (this is the default)
 - ❖ Device
- 9 To set up the Volume control, use the (◀/▶ arrow) buttons to select:
- ❖ TV (this is the default)
 - ❖ Amplifier

If the Amplifier option is selected, the **Volume Up/Down** and **MUTE** buttons will control the amplifier through the IR blaster.

NOTE If Audio is selected as the device type, the volume option is active. However if another device (other than Audio) is selected, then this option is not available and grayed out.

- 10 After setting up all the options for the device, it is important to test the IR Blaster's control of the device by using the Test option.
- 11 Once you have selected all the appropriate information on the screen, use the (▲/▼ arrow) buttons to select the **Done** button. To cancel this screen and return to the previous screen, select the **Cancel** button.

To test the IR Blaster's control of the device:

- 1 Use the (▲/▼ arrow) buttons to select the **Test** option from the IR Blaster Setup screen.

The TV will then send the power on and power off command to the device through the IR Blaster with approximately a 5 second interval.

- 2 A message screen will appear asking you "Was your device powered on and off by the IR Blaster? If not, please check your device and IR blaster position." If the test failed, a "Test Failed" message will appear on the screen.

To set up the timing control for your device:

- 1 Use the (▲/▼ arrow) buttons to select **Timing Control**. A screen will appear allowing you to set up the Interval Time for the device.

NOTE The Timing Control is activated when the Guide Control is set for the TV.

- 2 Use the (◀/▶ arrow) buttons to select from the following options:
 - ❖ 0.125 sec
 - ❖ 0.25 sec (this is the default)
 - ❖ 0.375 sec
 - ❖ 0.5 sec
 - ❖ 0.625
 - ❖ 0.75
 - ❖ 0.875

- ❖ 1 sec
 - 3 Select the **Test** button.

A message screen will appear asking you “Was your device changed from one channel to another by the IR blaster? If not, please check your configuration.” If the test failed, a “Test Failed” message will appear on the screen.
 - 4 Once you have selected all the appropriate information on the screen, use the (▲/▼ arrow) buttons to select the **Done** button. To cancel this screen and return to the previous screen, select the **Cancel** button.
-

NOTE

- ❖ When the **Done** button is selected, if the TV input has already been selected for another device an Alert Screen will appear.
 - ❖ When the **Done** button is selected, if the HDMI input has already been selected for another HDMI® CEC device an Alert Screen will appear.
 - ❖ When the **Done** button is selected, if the Device Type selected is the Cable Box, Satellite Box or Blu-ray™ DVD Player, the following message will be displayed: “Are you sure you want to apply this device to MediaGuide?” You must select the **Yes** or **No** option using the (◀/▶ arrow) buttons. After this selection, the IR Blaster Setup main screen will appear.
 - ❖ The HDMI® CEC control function has priority over the IR Blaster function when HDMI and HDMI® CEC devices are connected. If the IR Blaster is already setup, the IR Blaster function should be stopped when the same HDMI port is being used with at least one HDMI® CEC device.
-

Network Setup

During the Initial Setup, the Network Setup screen will appear with the message, “Network Setup will now begin. If you wish to skip, please select Skip.” To start the Network Setup, select Next on the screen or to skip the setup, select Skip. If you wish to skip this setup, you can setup the Network at any time through the **NETWORK** menu.

In order to setup your network, you must first select the type of network you wish to set up:

- 1 Use the (◀/▶ arrow) buttons to select Wired or Wireless network.

If you select Wired, proceed to the Network Connection Test (Step 3). If you selected Wireless network, please proceed to the following step.

- 2 Using the (▲/▼ arrow) buttons, select the type of Wireless setup option: Easy Setup (WPS), Assisted Setup, or Manual Setup.

-
- NOTE**
- ❖ Easy Setup (WPS). If your Access Point (AP) supports WPS, this method can be used. WPS is a standard designed to simplify the connection of wireless LAN equipment and the setup of network security features.
 - ❖ Assisted Setup (setup using the AP's notification information). The Network Name, Authentication, and Encryption are decided based on information from the AP. You need to manually set the Security Key for this method.
 - ❖ Manual Setup (to input all settings manually).
-

- 3 Once your wired or wireless network has been configured, perform a Network Connection Test.

A network connection test screen will appear while the test is being performed. If the test was successful, the successful connection screen will appear.

If the network connection test failed, the connection failure screen will appear.

For more information, see “Setting up the Network” on page 131 .

- 4 Press the **OK** button on the screen to return to the Initial Setup menu.

-
- NOTE** In order to secure your home network, it is strongly recommended that you use a wireless access point with encryption.
-

MediaGuide Setup

During the Initial Setup, the MediaGuide screen will appear with the message, “MediaGuide setup will now begin. If you wish to skip, please select Skip.” To start the MediaGuide Setup, select **Next** on the screen, or to skip the setup, select **Skip**. If you wish to

skip this setup, you can setup the MediaGuide at any time through the setting menu of the MediaGuide application.

To setup your MediaGuide:

When you select **Next** (as described above) the Connect to the Network screen will appear.

- 1 Make sure the TV is connected to the network, and then select the **Yes** or **No** button using the (◀/▶ arrow) buttons. Then press the **OK** button.

The TV will now establish connection with the information services it uses. A confirmation screen will appear if the connection was established.

- 2 Press the **OK** button on the confirmation screen.

If the TV is unable to connect to these services from the network, an error message appears.

NOTE If the error message appears, you should check your network connections and try again.

For more information, see “Setting up the Network” on page 131.

The Online Account Setup will appear. Please follow the on-screen instructions to register the guide.

NOTE If you wish to select any other service subscription such as Netflix®, you may complete this on the website as well.

After completion of the network connection check, a new screen will appear describing the terms and conditions.

- 3 Use the arrow buttons to select the **I Agree** button on the screen.

The Zip/Postal Code screen will appear.

- 4 Use the number buttons to enter your zip code. Press the **Continue** button.

The Choose Provider screen will appear.

- 5 Use the (▲/▼ arrow) buttons to select your service provider from the list.

After completion of all of these steps, the MediaGuide will start up.

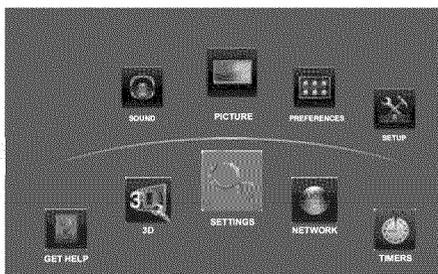
Support Information

- ❖ When the “Support Information” screen appears, press the **OK** button.

NOTE Refer to this information if there is a problem and you need to contact Customer Support. To find help, the following operation can be performed at any time. **MENU** button > **Menu** > **GET HELP** > **System Information** > **OK** button.

Navigating the menu system

- ❖ To open the menu system, press the **MENU** button on the remote control or TV control panel.



(Sample Illustration) Main menu

- ❖ When a menu is open, press the (▲/▼/◀/▶ arrow) buttons on the remote control to move in the corresponding direction.
- ❖ To select a highlighted item or save your menu settings, press the **OK** button. (A highlighted menu item appears in a different color in the menu.)
- ❖ All menus close automatically if no selection is made within approximately 60 seconds.
- ❖ To close a menu instantly, press the **EXIT** button.

Main menu layout

To open the main menus in the table below, press the **MENU** button on the remote control or TV control panel.

<i>1st Layer</i>	<i>2nd Layer</i>	<i>3rd Layer</i>	<i>Page</i>
GET HELP	Software Licenses		page 141
	Software Upgrade		page 140
	System Information		page 107
	eMANUAL		page 142
3D		3D Auto Start	page 81
		2D to 3D Depth	page 84
		3D PIN	page 81
		3D Safety Settings	page 83
		3D Important Information	page 72
SETTINGS	SOUND	SOUND Menu	page 125
	PICTURE	PICTURE Menu	page 115
	PREFERENCES	PREFERENCES Menu	page 64
	SETUP	SETUP Menu	page 64
NETWORK	Media Player Setup		page 157
	Network Setup		page 131
	Network Device Setup		page 136
	Smart Apps Setup		page 142
TIMERS	On Timer		page 104
	Sleep Timer		page 105
	Game Timer		page 96

Quick Menu

Quick menu helps you access some options more quickly.

Press the **QUICK** button to display the Quick menu and press the (▲/▼) buttons to select an option.

NOTE Quick menu items differ depending on the current mode.

<i>Quick Menu Item</i>	<i>Page</i>
Picture Mode	page 79
3D Settings	page 78
HDMI® CEC Player Control	page 99
Speakers	page 165
Wireless Information	page 135
Interval Time	page 165
Repeat	page 161
Device Information	page 159
SOUND	page 165
PICTURE	page 79

Chapter 5

Setting up your TV

How to navigate the menu

- ❖ Press the **MENU** button. Select **SETTINGS**, Main menu, Submenu, and then press the **OK** or **EXIT** button.

<i>Format:</i>	<i>Description:</i>
MENU	Press the MENU button.
SETTINGS	Press the (◀/▶ arrow) buttons to select SETTINGS.
Main menu	Press the (◀/▶ arrow) buttons to select a menu icon (SOUND, PICTURE, PREFERENCES, SETUP, GET HELP, 3D, SETTINGS, NETWORK, TIMERS)
Submenu	Press the (▲/▼ arrow) buttons to select a menu.
OK	Press the OK button.

Changing initial settings

From Quick Setup:

- 1 Press the **MENU** button.
- 2 Select **SETTINGS**, **SETUP**, **Quick Setup**, and then press the **OK** button.

A confirmation message appears.

- 3 Press the (◀/▶ arrow) buttons to select **Yes**.
- 4 Press the **OK** button.

To change settings, see “Initial setup” on page 51.

Individual settings

Menu Language

You can choose from three different menu language settings (English, Français, and Español). The TV displays menus and messages in your preferred language. You can also select the country in which you reside.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP**, and then **Menu Language**.
- 3 Press the (◀/▶ arrow) buttons to select your preferred language.
- 4 Press the (▼ arrow) button to select **Country**.
- 5 Press the (◀/▶ arrow) buttons to select the country.

Local Time

This setting allows you to specify the correct time zone for your region.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP, TV Settings**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **Local Time**.
- 4 Press the **OK** button.
- 5 Select an option:
 - ❖ **Time Zone**
 - ❖ **Daylight Saving Time**
- 6 Press the (◀/▶ arrow) buttons to select your time zone or select **On** to activate Daylight Saving Time.

Store/Home Mode

You can select **Store** or **Home** to designate the TV location. Select **Home** for normal home use.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP**, and then **Store/Home Mode**.

- 3 Press the (◀/▶ arrow) buttons to select **Home**.
- 4 Press the **OK** button.

ANT/CABLE In

This setting configures the antenna input source for the ANT/CABLE terminal.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP**, and then **ANT/CABLE In**.
- 3 Select **Antenna** or **Cable** and press **Next**.
- 4 Select **Cable** and press **Next**.

NOTE If you do not want to scan channels, you do not need to make a selection for ANT/CABLE. Select **Next** and press **OK** to skip this step.

- 5 Select **Start Scan**.
After scanning is complete, the auto tuning results screen will appear.
- 6 Press **OK** or **EXIT**.

Storing channels in memory (optional)

To make sure your TV stops only on the channels you want when you press the **CH Up/Down** arrow buttons on the remote control or the control panel, store those channels in the TV's memory.

Auto Tuning

NOTE You must set up the antenna/cable input source first. See "Initial setup" on page 51.

You can set up the TV to detect all active channels in your area and store them in its memory. Then you can manually store or skip individual channels from memory.

<i>Option:</i>	<i>Description:</i>
Cable	Note: If you select Cable, auto tuning deletes previously stored channels from memory. This setup requires some time, but you do not need to repeat the setup unless your cable TV service's lineup changes significantly.

<i>Option:</i>	<i>Description:</i>
Antenna	Auto tuning retains stored channels and stores newly found channels into memory. To skip an antenna source channel and remove it from memory, set the channel to be skipped. See "Skipping channels" on page 68.

NOTE To tune to channels not stored in memory, use buttons 0–9 and the **DASH** button on the remote control.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP, Auto Tuning**, and then press the **OK** button.
A confirmation screen appears.
- 3 Press the **OK** button to start Auto Tuning or press the **EXIT** button to abort.
The TV cycles through the channels and stores all active channels in memory.
- 4 To view the programmed channels, press the **CH Up/Down** arrow buttons.

Manual Tuning

After storing channels in memory, you can manually enter channels if the channel number is known.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP, Manual Tuning**, and then press the **OK** button.
- 3 Use buttons 0–9 on the remote control to enter the channel number (for example, 56).
- 4 Press the **OK** button.
- 5 Press the **OK** button again to begin Manual Tuning.

The channels found are listed at the bottom of the screen.

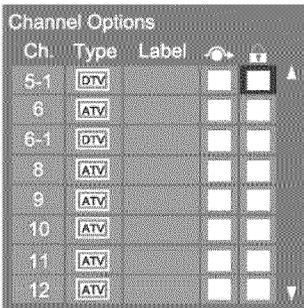
<i>Option:</i>	<i>Description:</i>
ATV	Analog channel
DTV	Digital channel

Skipping channels

To prevent a channel from being viewed, you can set it to be skipped.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP, TV Settings**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **Channel Options**, and then press the **OK** button.

The list of channels appears.



(Sample Image) Channel options

- 4 Move to the Skip column () and press the (**▲/▼** arrow) buttons to select a channel to skip.
- 5 Press the **OK** button.
The box is selected.
- 6 To clear the selection, press the **OK** button.

NOTE

You cannot tune skipped channels using the CH Up/Down arrow buttons. Use buttons 0–9 and the DASH button on the remote control.

Skipping video inputs

You can set video inputs to be skipped when selecting inputs in the Input selection window.

To turn on skip

- 1 Press the **MENU** button.

- 2 Select **SETTINGS, PREFERENCES, AV Connection**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **Input Labeling**.
- 4 Press the **OK** button.
- 5 Press the (**▲/▼** arrow) buttons to select the item you wish to skip. Then press the **RED** button to turn on **Skip**.

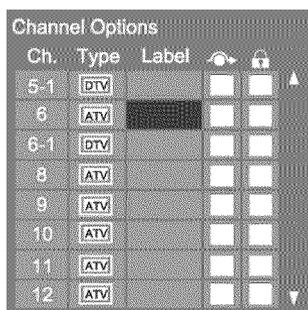
To turn off skip

Press the **RED** button again to turn off **Skip**.

Labeling analog TV channels

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, SETUP, TV Settings**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **Channel Options**, and then press the **OK** button.

The list of channels appears.



(Sample Image) Channel options

- 4 Press the (**▲/▼** arrow) buttons to select a channel to label.
- 5 Press the **OK** button.
The Software Keyboard window appears.
- 6 Input a name using the Software Keyboard, see “Using the software keyboard” on page 139.
- 7 Press the **BLUE** button.

Labeling video inputs

The input labels are shown in the input selector and banner displays. You can label video inputs according to the devices you have connected to the TV.

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, PREFERENCES, AV Connection**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **Input Labeling**, and then press the **OK** button.
- 4 Press the (**▲/▼** arrow) buttons to select the item you wish to label. Press the (**◀/▶** arrow) buttons to select **Receiver, Cable, DVD, Game, PC, Recorder, Satellite, VCR or Blu-ray™**.
- 5 Repeat Step 4 for other video inputs.

Configuring shared inputs

To set Shared AV Audio

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, PREFERENCES, AV Connection**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **Video 1/ColorStream HD1 Audio/HDMI 3 Audio**.
- 4 Press the (**◀/▶** arrow) buttons to select **ColorStream HD1, Video 1**, or **HDMI 3**.

To set Shared PC Audio

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, PREFERENCES, AV Connection**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **PC/HDMI 4 Audio**.
- 4 Press the (**◀/▶** arrow) buttons to select **PC** or **HDMI 4**.

Setting the Auto Input feature

You can change TV inputs using the **MODE SELECT** buttons on the remote control: **TV, CABLE/SAT, BD/ DVD**, or **AUX**. After setting an input for a specific **MODE SELECT** button, the TV automatically switches to the input.

Auto Input settings options for each **MODE SELECT** button:

<i>Option:</i>	<i>Description:</i>
TV	ANT/CABLE
CABLE/SAT	ANT/CABLE, Video 1 Video 2 ColorStream HD1, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC
BD/DVD	Video 1 Video 2 ColorStream HD1, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC
AUX	ANT/CABLE, Video 1 Video 2 ColorStream HD1, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC

NOTE The TV mode select button will be restricted to the ANT/CABLE input.

To set Auto Input

- 1 Press the **MENU** button.
- 2 Select **SETTINGS, PREFERENCES, Mode Select Key Setup**, and then press the **OK** button.
The Mode Select window will appear.
- 3 Press the (◀/▶ arrow) buttons to set the **Enable Mode Select Key** to On.
- 4 Press the (▲/▼ arrow) buttons to select the mode you wish to set.
- 5 Press the (◀/▶ arrow) buttons to select an input source for that mode.
- 6 Repeat the procedure for other modes.

To turn off Auto Input

- ❖ Select **Off** in Step 3.

To reset Auto Input

- ❖ Select **Reset**, and then press the **OK** button.

Chapter 6

Basic Features

Viewing 3D images

Before using the 3D function, note the following:

In addition to compatible 3D glasses, viewing 3D programming requires the following (not included):

- ❖ Compatible 3D playback device or 3D source.
- ❖ 3D capable HDMI[®] cable.

If you wish to obtain extra 3D glasses:

Toshiba provides 3D glasses for this television as an option.
To obtain them visit:

US: <http://ceaccessories.toshiba.com/>

Canada: <http://www.shoptoshiba.ca/>

NOTE

Use the type of 3D glasses that are compatible with to your TV.

CAUTION

Health precautions:

- ❖ Due to the possible impact on vision development, viewers of 3D programming should be age 6 or above. Children may be more susceptible to health effects from viewing 3D images and should be closely supervised.
 - ❖ Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games. Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function of this product.
-

CAUTION

Handling the 3D glasses:

- ❖ When cleaning the 3D glasses, gently wipe with a dry, soft cloth. First, remove any dirt or dust from the 3D Glasses. Harsh rubbing or use of a dirty or coarse cloth will scratch the 3D Glasses. Do not use benzene, paint thinner, alcohol, water, or abrasive cleaners, which may damage the 3D glasses.
 - ❖ When not using the 3D glasses, store them away from high temperatures and humidity.
 - ❖ Do not store the 3D glasses in areas of extreme heat or cold, as deformation can occur. If deformation occurs, replace the 3D glasses.
 - ❖ The lenses of the 3D glasses are different from those of ordinary glasses, and are very thin. Be very careful in handling the 3D glasses as the lens can pop out easily.
 - ❖ Do not put excessive force on the lenses.
 - ❖ Do not scratch the surface of the lenses with sharp objects.
 - ❖ Do not drop or bend the 3D glasses.
 - ❖ Do not use benzene, paint thinner, alcohol, water, or abrasive cleaners, which may damage the 3D glasses.
 - ❖ The 3D glasses are not subject to repair. If the glasses are broken or scratched, purchase a new pair of 3D glasses.
 - ❖ The 3D glasses are not subject to repair, but can be replaced if a problem occurs due to an initial fault with the glasses
-

NOTE **Watching the TV:**

- ❖ Proper 3D effects or 3D-to-2D conversion results may not be obtained depending on the received 3D content.
 - ❖ 3D effect and image quality may vary depending upon content quality and display device capability/ functionality/settings.
 - ❖ Wear the 3D glasses properly, otherwise you may not see the correct 3D images.
 - ❖ When not viewing 3D images, take off the 3D glasses; otherwise, it may be difficult to see the display on other products such as your computer, digital clock, or calculator, etc.
 - ❖ Use the 3D glasses at the proper viewing angle and distance, see “Safety Precautions for 3D glasses” on page 6.
-

NOTE Use a high-speed HDMI® cable when you connect a device such as a 3D compatible Blu-ray Disc™ player or computer to the TV. When you use a standard HDMI® cable, 3D images may not display correctly.

Some functions cannot be shown in 3D mode.

Using 3D functions

Incoming video signals can either be in 2D or 3D format. A 2D signal can be viewed in either 2D or 3D, and 3D can be viewed in either 2D or 3D. If the TV can detect the fact that a signal is 3D, it can change to 3D mode automatically, see “Setting the 3D start message” on page 82. Otherwise you can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TAB). You may have to choose the correct format if the TV can not detect it automatically, see “Selecting 3D format from the Quick menu in 3D mode” on page 78.

You can also change 2D images to 3D images by pressing the 3D button when viewing in 2D.

NOTE

- ❖ In order to switch to 3D, the TV must be receiving a 3D signal.
 - ❖ If appropriate mode and format are not selected, 3D image is not correctly displayed.
 - ❖ If the appropriate 3D mode and format are not selected, the 3D image will not display correctly.
 - ❖ There are individual differences in perception of 3D images.
 - ❖ When viewing 3D images, wear the 3D glasses.
 - ❖ The 2D to 3D conversion function is activated and controlled by you according to your personal preferences.
 - ❖ The 2D to 3D conversion function is meant for enjoyment of 2D home video, and other 2D content you create, in 3D according to your personal preferences.
 - ❖ It is not intended for unauthorized use of copyrighted works. To the extent that you need to obtain permission from a copyright holder to view copyrighted works, it is your responsibility to obtain such permission.
 - ❖ The 2D to 3D conversion function is not intended for use with pre-recorded 2D copyrighted content owned by a third-party unless the copyright owner has given direct or indirect permission, or unless applicable law permits such use. To the extent you need to obtain permission from a copyright holder to view copyrighted works, it is your responsibility to obtain such permission.
-

Switching display mode or selecting 3D format

There are four TV viewing modes:

<i>Mode:</i>	<i>Description:</i>
3D	Displays 3D images.
2D	Displays 2D images by changing 3D images to 2D.
2D to 3D	Displays 3D images by changing 2D images to 3D.
Native	Displays a received signal format as it is.

3D signals can be sent in one of three formats:

<i>3D Format:</i>	<i>Description:</i>
 Side by Side (SBS)	Images for the left and right eyes are positioned side-by-side.
 Top and Bottom (TAB)	Images for the left and right eyes are positioned at the top and bottom of the screen
 Frame Packing (FP)*	Images for the left and right eyes are positioned at the top and bottom of the screen.

* This format cannot be selected manually.

- ❖ If the right and left images are the same in Native mode, select SBS.
- ❖ If the top and bottom images are the same in Native mode, select TAB.

The 3D button operation

Depending on the input mode, the 3D button function may be different when viewing Native mode.

<i>Input:</i>	<i>Function:</i>
Analog Inputs	Changes the viewing mode to 2D to 3D mode.
HDMI®	Displays the selection window.
Analog Broadcast	Changes the viewing mode to 2D to 3D mode.
Digital Broadcast	Displays the selection window.

<i>Input:</i>	<i>Function:</i>
HDMI with 3D Auto Detect Information	Changes the viewing mode to 3D mode
Internet Service	Displays the selection window.

NOTE When viewing 3D mode or 2D to 3D mode, pressing the 3D button changes the viewing mode to Native mode.
The 3D mode may not be available with certain features.

Switching to 3D mode

- 1 Set 3D Auto Start to **3D**.
- 2 Press the **3D** button and select **3D** while viewing 2D mode or Native mode.

<i>Input Signal/Switching Display Mode Trigger</i>			<i>Press 3D Button</i>		
Type	Additional Information	Format	Source Signal	Select 3D	Select 2D to 3D
3D Format Signal	With 3D Auto Detect Information	FP		*	
		SBS		*	
	TAB		*		
	Without 3D Auto Detect Information	SBS		*	
TAB					
2D Format Signal					*

* Correct 3D image.

Selecting 3D format from the Quick menu in 3D mode

- 1 Press the **QUICK** button. Select **3D Settings**, and then press the **OK** button.
- 2 Press the (▲/▼ arrow) buttons to select **3D Format Select**, and then press the **OK** button.
- 3 Press the (◀▶ arrow) buttons to select **Side by Side** or **Top and Bottom**.

<i>Input Signal/Switching Display Mode Trigger</i>				<i>Quick menu/ 3D Format Select</i>		
Type	Additional Information	Format	Source Signal	SBS	TAB	
3D Format Signal	With 3D Auto Detect Information	FP				
		SBS				
		TAB				
	Without 3D Auto Detect Information	SBS			* 	
		TAB				* 
		2D Format Signal				

* Correct 3D image.

Switching to 2D mode

- 1 Set 3D Auto Start to **2D**.
- 2 Press the **3D** button while viewing 3D mode.

Input Signal/Switching Display Mode Trigger			Press 3D Button		
Type	Additional Information	Format	Source Signal	Select 3D	Select 2D to 3D
3D Format Signal	With 3D Auto Detect Information	FP		*	
		SBS		*	
	TAB		*		
	Without 3D Auto Detect Information	SBS			
TAB					
2D Format Signal				*	

* Correct 2D image.

Selecting 2D format from the Quick menu in 2D mode

- 1 Press the **QUICK** button. Select **3D Settings**, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to select **2D Format Select**, and then press the **OK** button.
- 3 Press the (**◀/▶** arrow) buttons to select **Side by Side** or **Top and Bottom**.

Input Signal/Switching Display Mode Trigger			Quick menu/ 3D Format Select			
Type	Additional Information	Format	Source Signal	SBS	TAB	Native
3D Format Signal	With 3D Auto Detect Information	FP				
		SBS		*		
	TAB			*		
	Without 3D Auto Detect Information	SBS		*		
		TAB			*	
	2D Format Signal					*

* Correct 2D image.

NOTE Take off the 3D glasses in 2D mode

Switching to Native mode

Press the **3D** button while viewing 3D mode.

Press the **3D** button while viewing 2D to 3D mode.

NOTE When 3D format signal with 3D Auto Detect Information is received, it is not possible to switch to Native.

Quick menu in 2D mode

- 1 Press the **QUICK** button. Select **3D Settings**, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to select **2D Format Select**, then press the **OK** button.
- 3 Press the (**◀/▶** arrow) buttons to select **Native**.

To switch 2D to 3D mode

- ❖ Press the **3D** button and select **2D to 3D** while viewing 2D or Native mode.

NOTE When using ATV, Video, ColorStream HD, Internet, or PC, the viewing mode can be changed to 2D to 3D mode by pressing 3D.

Setting the auto start mode

This controls what the TV does when it detects a 3D format signal with 3D Auto Detect Information.

- 1 Press the **MENU** button.
- 2 Use the (**▲/▼** arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **3D Auto Start**.
- 4 Press the (**◀/▶** arrow) buttons to select **3D**, **2D**, or **Off**.

<i>Option:</i>	<i>Description:</i>
3D	Displays in 3D mode automatically when 3D format signal with 3D Auto Detect Information is received.
2D	Displays in 2D mode automatically when 3D format signal with 3D Auto Detect Information is received.
Off	Displays a screen that allows you to select 3D or 2D when 3D format signal with 3D Auto Detect Information is received.

Setting the 3D PIN code

A 3D PIN code is necessary for using 3D Safety Settings.

Enter a new PIN code

- 1 Press the **MENU** button.
- 2 Use the (**▲/▼** arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **3D PIN**, and then press the **OK** button.
- 4 Press the number buttons to enter a 4-digit number, and then confirm the code.

NOTE the PIN code cannot be set to "0000."

Change or delete your PIN code

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D PIN**.
- 4 Press the number buttons to enter your 4-digit PIN code.
- 5 Select **Change PIN** or **Delete PIN**, and then press the **OK** button.

NOTE ❖ The PIN code cannot be set to "0000."
❖ If PIN is deleted, 3D Safety Settings are grayed out, and the settings are reset to the factory default.

Forgotten PIN codes

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D PIN**.
- 4 Press the **INFO** button 4 times within 5 seconds.
The code clears.
- 5 Enter a new PIN code.

Setting the 3D start message

When this feature is set to On, a message displays on the screen when a 3D signal is received.

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D Safety Settings**, and then press the **OK** button.
- 4 Enter your 4-digit 3D PIN code.
- 5 Press the (▲/▼ arrow) buttons to select **3D Start Message**.

- 6 Press the (◀/▶ arrow) buttons to select **On** or **Off**.

Setting the 3D Lock

When this feature is set to On, you must enter your 3D PIN code to change the display mode to 3D mode or 2D to 3D mode.

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D Safety Settings**, and then press the **OK** button.
- 4 Enter your 4-digit 3D PIN code.
- 5 Press the (▲/▼ arrow) buttons to select **3D Lock**.
- 6 Press the (◀/▶ arrow) buttons to select **On**.

Setting the 3D Timer Lock

When the 3D Timer Lock feature is set to On, the PIN input window and the 3D start message will not appear while the 3D Enable timer is active, even if you switch to 3D Mode. This prevents it from asking for the 3D Lock PIN, and will not display the 3D start message every you switch to 3D.

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D Safety Settings**, and then press the **OK** button.
- 4 Enter your 4-digit 3D PIN code.
- 5 Press the (▲/▼ arrow) buttons to select **3D Timer Lock**.
- 6 Press the (◀/▶ arrow) buttons to select **On**.

NOTE The PIN input window appears when “continue” is selected in the reminder dialogue box for Enable 3D Timer even if 3D Timer Lock is activated.

Setting the Enable 3D Timer

This feature allows you to set a reminder to not watch a 3D video for an extended period of time. Once a set period of time has passed, a dialogue box appear asking if you wish to continue viewing.

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D Safety Settings**, and then press the **OK** button.
- 4 Enter your 4-digit 3D PIN code.
- 5 Press the (▲/▼ arrow) buttons to select **Enable 3D Timer**.
- 6 Press the (◀/▶ arrow) buttons to select **30, 60, 90, or 120** minutes.
- 7 To cancel the timer, select **Off**.

Displaying 3D Important Information

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **3D Important Info**, and then press the **OK** button.

Adjusting 2D to 3D depth

With this feature, you can adjust the level of 3D depth.

Within the Menu:

- 1 Press the **MENU** button.
- 2 Use the (▲/▼ arrow) buttons to select **3D**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **2D to 3D Depth**.
- 4 Press the (◀/▶ arrow) buttons to select either **1, 2, 3, 4, or 5**, and then press the **OK** button.

Within the Quick menu:

- 1 Press the **QUICK** button in 2D to 3D mode.
- 2 Press the (▲/▼ arrow) buttons to select **3D Settings**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **2D to 3D Depth**.
- 4 Press the (◀/▶ arrow) buttons to select either **1, 2, 3, 4, or 5**, and then press the **OK** button.

Switching left and right images

The left and right images of the glasses can be swapped. If 3D images look blurry, switch the left and right sides of the 3D image.

- 1 Press the **QUICK** button to open the Quick menu.
- 2 Press the (▲/▼ arrow) buttons to select **3D Settings**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **Left and Right Image**. Press the (◀/▶ arrow) buttons to select **Swapped**.

Tuning Channels

Tuning to the next programmed channel

Press the CH Up/Down arrow buttons on the remote control or TV control panel.

Tuning to a specific channel (programmed or unprogrammed)

<i>Channel:</i>	<i>Description:</i>
Analog	Use the 0–9 buttons on the remote control. (For example, to select channel 125, press 1, 2, 5.), and then press the OK button.
Digital	Use the 0–9 buttons on the remote control to enter the major channel number. Press the DASH button, (For example, to select digital channel 125- 1, press 1, 2, 5, -, 1.), and then press the OK button.

Using Channel Return

You can switch between two channels without entering a channel number each time. This feature also works for external inputs.

- 1 Select the first channel you want to view.
- 2 Select a second channel using the Channel Number buttons (and press the **DASH** button if needed).
- 3 Each time you press the **CH RTN** button, the TV switches between the last two channels that were tuned.

Using SurfLock™

The SurfLock™ feature temporarily programs one channel to the **CH RTN** button so that you can quickly return to it from any other channel. This feature also works for external inputs.

To temporarily program the **CH RTN** button with a particular channel:

- 1 Tune to the channel you wish to program to the **CH RTN** button.
- 2 Press and hold the **CH RTN** button for approximately 4 seconds until the message “Memorized” appears. The channel has been programmed to the **CH RTN** button.
- 3 You can then change channels repeatedly, and when you press the **CH RTN** button, the memorized channel is tuned to.

After pressing the **CH RTN** button and then changing channels again, the memory is cleared and the button functions as Channel Return.

Selecting the video input to view

To select the video input to view:

- 1 Press the **INPUT** button on the remote control or TV control panel.
- 2 Change the input:
 - ❖ Press 0–8.
 - ❖ Repeatedly press the (▲/▼ arrow) buttons, and then press the **OK** button.
 - ❖ Repeatedly press the **INPUT** button.

<i>Inputs</i>	
0	ANT/CABLE
1	Video 1
2	Video 2
3	ColorStream HD1
4	HDMI 1
5	HDM 2
6	HDM 3
7	HDM 4
8	PC

-
- NOTE**
- ❖ You can label the video input sources according to the specific devices you have connected to the TV, see “Labeling video inputs” on page 70.
 - ❖ You can skip sources, see “Skipping video inputs” on page 68.
 - ❖ Inputs that are set to be skipped will be skipped when selecting by repeatedly pressing the **INPUT** button or the (▲/▼ arrow) buttons.
 - ❖ You can select inputs that are set to be skipped using the number buttons.
 - ❖ If one or more HDMI® CEC devices are connected to an HDMI® input, the icon appears in the input selector. In this case, the label, see “Labeling video inputs” on page 70 will not appear in the input selector.
-

To select an HDMI® CEC device:

- 1 Press the (▲/▼ arrow) buttons to select an HDMI® input.
- 2 Press the (▶ arrow) button. The list of HDMI® CEC devices for that input appears.
- 3 If the input has multiple HDMI® CEC devices, use the (▲/▼ arrow) buttons to select a device.
- 4 Press the **OK** button.

Using closed captions

To turn on the closed caption mode:

- 1 Press the **MENU** button. Select **SETTINGS, SETUP, TV Settings**, and then press the **OK** button.
- 2 Press the (▲/▼ arrow) buttons to select **Closed Captions**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **Closed Captions Display**.
- 4 Press the (◀/▶ arrow) buttons to select **On** or **Off**.

-
- NOTE** If Closed Captions Display is set to Off, Analog CC Mode and Digital CC Settings will be not available.
-

Analog CC mode

The closed caption mode has two options:

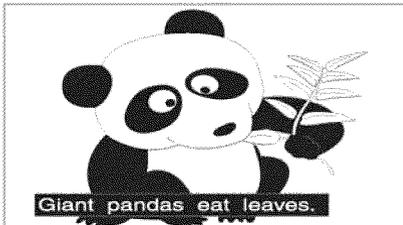
<i>Mode:</i>	<i>Description:</i>
Captions	Displays the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked "CC" in program guides).
Text	Displays information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

- 1 Press the **MENU** button. Select **SETTINGS, SETUP, TV Settings**, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to select **Closed Captions**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to select **Analog CC Mode**.

To view captions:

Press the (**◀/▶** arrow) buttons to highlight **CC1, CC2, CC3**, or **CC4**.



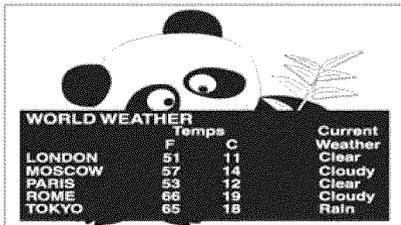
(Sample Illustration) Captions

NOTE

If the program or video you have selected is not closed captioned, no captions will be displayed.

To view text:

Press the (◀▶ arrow) buttons to highlight **T1**, **T2**, **T3**, or **T4**.



(Sample Illustration) Captions - text

NOTE If text is not available in your area, a black rectangle may appear on the screen. You can remove this rectangle by setting Closed Captions Display to Off.

NOTE A closed caption signal may not be displayed when a videotape is dubbed, signal reception is weak, or signal reception is non-standard.

Digital CC settings

You can customize the closed caption display characteristics.

NOTE

- ❖ These settings are available for digital channels only.
- ❖ You cannot set Caption Text and Background as the same color.

<i>Mode:</i>	<i>Description</i>
Caption size	Auto, Small, Standard, Large
Caption text type	Auto, Mono (with Serif), Prop. (with Serif), Mono (without Serif), Prop. (without 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

<i>Mode:</i>	<i>Description</i>
Text background opacity	Auto, Transparent, Translucent, Flashing, Solid
Caption text edge color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan

To customize the closed captions:

- 1 Press the **MENU** button. Select **SETTINGS, SETUP, TV Settings**, and then press the **OK** button.
- 2 Press the (▲/▼ arrow) buttons to select **Closed Captions**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select **Digital CC Settings**, and then press the **OK** button.
- 4 Press the (▲/▼ arrow) buttons to select a characteristic. Press the (◀/▶ arrow) buttons to select the format for that characteristic.

Using the Closed Caption button

If you press the **CC** button when an analog channel is tuned or from an external input (480i signal from the video input):

- ❖ The CC bar will appear and will display the options, CC1-4, T1-4.

If you press the **CC** button when a digital channel is tuned:

- ❖ The CC bar will appear and will display the available caption options for that channel or service.

Setting the PIN code

A PIN code is necessary for some menus.

NOTE The Parental Control and Locks menu is grayed out if no PIN has been set.

Entering a new PIN code

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental PIN**, and then press the **OK** button.
- 2 Use the number buttons to enter a 4-digit number, and then confirm the code.

NOTE The PIN code cannot be set to "0000".

Changing or deleting your PIN code

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental PIN**, and then press the **OK** button.
- 2 Use the number buttons to enter your 4-digit PIN code.
- 3 Select **Change PIN** or **Delete PIN**, and then press the **OK** button.

NOTE

- ❖ The PIN code cannot be set to "0000".
- ❖ If you delete the PIN code, the settings of Parental Controls and Locks are reset.

Forgotten PIN code

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental PIN**, and then press the **OK** button.
- 2 Press the **INFO** button 4 times within 5 seconds. The code is cleared.
- 3 Enter a new PIN code.

Using parental controls

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

Some TV programs and movies include signals that classify the content of the program (as unsuitable for younger viewers). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select.

NOTE The V-Chip feature in this TV supports the U.S. V-Chip system only.

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental Control and Locks**, and then press the **OK** button.
- 2 Enter your 4-digit PIN code.
- 3 Press the (▲/▼ arrow) buttons to highlight **Enable Rating Blocking**.
- 4 Press the (◀/▶ arrow) buttons to select **On**.
- 5 Press the (▲/▼ arrow) buttons to select **Edit Rating Limits**, and then press the **OK** button.
The Edit Rating Limits screen appears.
- 6 Press the (▲/▼/◀/▶ arrow) buttons.
- 7 Press the **OK** button to select a level of blocking.

A box with an “X” indicates a rating that will be blocked. As you highlight a rating, the rating’s definition appears at the bottom of the screen.

NOTE This feature will not be available if no PIN code is set.

Downloading an additional rating system

An additional rating system may be available for use in selectively blocking TV programs and movies.

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

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental Control and Locks**, and then press the **OK** button.
- 2 Enter your 4-digit PIN code. The Parental Control and Locks screen appears.
- 3 Press the (▲/▼ arrow) buttons to highlight **Enable Rating Blocking**.
- 4 Press the (◀/▶ arrow) buttons to select **On**.

- 5 Press the (▲/▼ arrow) buttons to select **Edit Rating Limits**, and then press the **OK** button.

The Edit Rating Limits screen appears.

- 6 Select **Alt RS**, and then press the **OK** button.

The Edit Alternate Ratings screen appears.

NOTE

- ❖ The Alt RS button is only available if an additional rating system is currently available.
 - ❖ The download may take several minutes.
 - ❖ The information displayed on the Alternate Ratings screen depends on the configuration of the additional rating system available at the time of download.
-

- 7 Press the (▲/▼/◀/▶ arrow) buttons.

- 8 Press the **OK** button to select the desired level of blocking. A box with an “X” indicates the rating that will be blocked.

NOTE

- ❖ You can only download the additional rating system once. You cannot download updates if they 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.
-

Rating system

Independent rating system for broadcasters:

<i>Ratings:</i>	<i>Description and Content themes:</i>
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. L) Crude or indecent language S) Explicit sexual activity V) Graphic violence
TV-14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) D) Intensely suggestive dialogue L) Strong, coarse language S) Intense sexual situations V) Intense violence

<i>Ratings:</i>	<i>Description and Content themes:</i>
TV-PG	Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) D) Some suggestive dialogue 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

<i>Ratings:</i>	<i>Description and Content themes:</i>
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	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
G	General Audience (Appropriate for all ages)

Indication other than rating system

<i>Display:</i>	<i>Description:</i>
NONE	The program is rated None.
(No rating appears)	No rating information is provided.

NOTE

If you place an "X" in the box next to "Rated "None"", programs rated "None" or "Not Rated" will be blocked; Programs that do not provide any rating information will not be blocked.

Displaying ratings

To display the rating of the program you are watching, press the **INFO** button on the remote control.

Unlocking programs

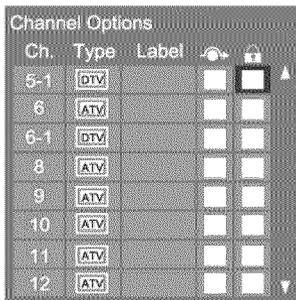
If you try to tune to a program that exceeds the rating limits you have set, the TV will enter program lock mode and a warning message will appear on screen. Follow the instructions to temporarily unlock the program.

Locking specific channels

A channel that is configured as Locked cannot be viewed unless the PIN code is entered first, see “Setting the PIN code” on page 90.

- 1 Press the **MENU** button. Select **SETTINGS**, **SETUP**, **TV Settings**, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to select **Channel Options**, and then press the **OK** button.

The list of channels appears.



Ch.	Type	Label		
5-1	DTV		<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	ATV		<input type="checkbox"/>	<input type="checkbox"/>
6-1	DTV		<input type="checkbox"/>	<input type="checkbox"/>
8	ATV		<input type="checkbox"/>	<input type="checkbox"/>
9	ATV		<input type="checkbox"/>	<input type="checkbox"/>
10	ATV		<input type="checkbox"/>	<input type="checkbox"/>
11	ATV		<input type="checkbox"/>	<input type="checkbox"/>
12	ATV		<input type="checkbox"/>	<input type="checkbox"/>

(Sample Illustration) Channel options

- 3 Press the (**▶** arrow) button and then the (**▲/▼** arrow) buttons to select a channel in the lock column, and then press the **OK** button.
- 4 You must enter your PIN code to lock channels.

NOTE If no PIN code has been set, a warning appears. See, “Setting the PIN code” on page 90.

- 5 The box is selected. To clear the selection, press the **OK** button.

Locking video inputs

You can lock video inputs and channels 3 and 4. You cannot view the input sources or channels until you unlock the inputs by entering the PIN code.

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental Control and Locks**, and then press the **OK** button.
- 2 Enter your 4-digit PIN code.
- 3 Press the (**▲/▼** arrow) buttons to highlight **Input Lock**.
- 4 Press the (**◀/▶** arrow) buttons to select **Video**, **Video+**, or **Off**.

<i>Mode:</i>	<i>Description:</i>
Video	Locks Video 1, Video 2, ColorStream HD1, HDMI 1, HDMI 2, HDMI 3, HDMI 4, and PC.
Video+	Locks Video 1, Video 2, ColorStream HD1, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC, and channels 3 and 4. Select Video+ if you want to play video tapes via the ANT/CABLE input.
Off	Unlocks all video inputs and channels 3 and 4.

Setting a time limit for games

You can use the GameTimer[®] to set a time limit for playing a video game. When the time expires, the TV locks all external inputs.

- 1 Press the **MENU** button. Select **TIMERS**, **GameTimer**, and then press the **OK** button.
- 2 Enter your 4-digit PIN code.
- 3 Press the (**◀/▶** arrow) buttons to select **30**, **60**, **90**, or **120** minutes.
- 4 To cancel the timer, select **Off**.

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

- ❖ Set the Input Lock to **Off**, see “Locking video inputs” on page 96.

- NOTE**
- ❖ A message appears when 10 minutes, 3 minutes, and 1 minute are remaining.
 - ❖ If the TV loses power with time remaining, the TV will enter Input Lock mode when power is restored (as if the GameTimer had been activated). You must deactivate the Input Lock, see “Locking video inputs” on page 96.
-
-

Locking the control panel

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

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Parental Control and Locks**, and then press the **OK** button.
 - 2 Enter your 4-digit PIN code.
 - 3 Press the (▲/▼ arrow) buttons to select **Panel Lock**.
 - 4 Press the (◀/▶ arrow) buttons to select **On**.
-
-

- NOTE** When Panel Lock is set to On, “Panel Lock” appears on screen when the buttons on the TV control panel are pressed. If the **POWER** button is pressed, the TV turns off and you must use the remote control to turn it on.
-
-

To unlock the control panel:

- ❖ Select **Off** in Step 4 above.

Using HDMI® CEC Control

This feature uses CEC technology and allows you to control Toshiba HDMI® CEC compatible devices from the TV remote control via HDMI® connection.

When Enable HDMI® CEC Control in the HDMI® CEC Control Setup menu is set to On, the following HDMI® CEC Control functions are enabled.

To set HDMI® CEC Control Setup

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **HDMI® CEC Control Setup**, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to highlight **Enable HDMI CEC Control**.
- 3 Press the (**◀/▶** arrow) buttons to select **On**.

NOTE If you set Enable HDMI® CEC Control to Off, the other items under HDMI® CEC Control Setup will be grayed out.

- 4 Press the (**▲/▼** arrow) buttons to select an item. Press the (**▲/▶** arrow) buttons to select **On** or the desired mode:
 - ❖ TV Auto Power: **On/Off**
 - ❖ Auto Standby: **On/Off**
 - ❖ Amplifier Control: **On/Off**
 - ❖ Speaker Preference: **TV Speakers/Amplifier**

NOTE These functions depend on the connected devices.

Controlling HDMI® CEC playback devices

With your TV's remote control, you can control the connected HDMI® CEC playback device (DVD player, etc.) you are watching.

<i>Button:</i>	<i>Description:</i>
	Begins playback
	Stops playback
	Pauses the picture during play or record mode
	A short press fast-forwards, and a long press skips forward.
	A short press rewinds, and a long press skips backward.
	Fast forward
	Rewind/reverse

<i>Button:</i>	<i>Description:</i>
	Menu navigation, etc.
	Enters content with a menu
RED, GREEN, YELLOW, BLUE	Controls various operation
0–9 buttons	
Channel Up/Down	Changes to the next available channel up or down in the sequence

NOTE These functions depend on the connected devices.

HDMI® CEC Player Control menu functions

- 1 Press the **QUICK** button to open the Quick menu.
- 2 Select **HDMI® CEC Player Control**, and then press the **OK** button.
- 3 Press the () buttons to select the item you want to control, and then press the **OK** button.

<i>Item:</i>	<i>Description:</i>
Power	Turns the selected device On and Off
Root Menu	Accesses the selected device's top menu
Content Menu	Accesses the content list when the OK button is pressed
Setup Menu	Accesses the device's setup menu

-
- NOTE** These functions depend on the connected devices.
- The HDMI® CEC Player Control item is not available under the following conditions:
- ❖ A non-HDMI® input is selected
 - ❖ The Enable HDMI® CEC Control item is set to Off
 - ❖ The connected HDMI® CEC device is not a playback or recording device
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HDMI® CEC Control input source selection

If an HDMI® CEC device with HDMI® switching capability (e.g. an amplifier) is connected to the HDMI® input, you can select another HDMI® CEC device that is connected to the master HDMI® device.

Use the **INPUT** button on the remote control or the control panel, see “Learning about the remote control” on page 49.

Adjusting the amplifier's audio

Using the TV's remote control, you can adjust or mute the sound volume of your amplifier.

- ❖ The **VOL (+ -)** buttons adjust the volume level.
 - ❖ The **MUTE** button turns off the sound.
- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **HDMI® CEC Control Setup**, and then press the **OK** button.
 - 2 Press the (**▲/▼** arrow) buttons to highlight **Speaker Preference**.
 - 3 Press the (**◀/▶** arrow) buttons to select **Amplifier**.

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- NOTE** Confirm that a connected HDMI® CEC device (such as DVD player, etc.) is selected for the Amplifier input source.
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- NOTE**
- ❖ You can also use this function when the amplifier is connected to the TV's DIGITAL AUDIO OUT terminal (not HDMI® connection). Select a digital audio input mode on the amplifier.
 - ❖ These functions depend on the device connected.
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Other HDMI® CEC Control functions

When Enable HDMI® CEC Control and all items in the HDMI® CEC Control Setup menu are set to On, the following functions will be enabled:

<i>Item:</i>	<i>Description:</i>
TV Auto Power	If a HDMI® CEC device is turned on, the TV turns on automatically.
Auto Standby	If the TV is turned off, it will send a message to turn off all of the HDMI® CEC devices connected to the TV.
Amplifier	If Amplifier Control is set to On, you can adjust the sound volume or turn off the sound using the remote control.
Speaker Preference	With this item, you can set your audio output preference to the TV speakers or the amplifier. When this item is set to Amplifier, the remote control can be used to adjust or mute the volume of the audio. This item will not be available and set to TV Speakers automatically unless a HDMI® CEC compatible audio receiver is connected.

NOTE

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

Using the HDMI® RGB Range feature

<i>Item:</i>	<i>Description:</i>
RGB Range: Auto	Adjusts the RGB full range signal automatically. When Limited is selected, the RGB output signal is output in the range of 16 to 235. When Full is selected, the RGB output signal is output in the range of 0 to 255.

The RGB Range setting requires appropriate HDMI® source devices. If your HDMI® source device does not support this feature, the TV may not work properly when it is enabled.

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- NOTE** If your HDMI® connection is capable of 1080p and/or your TV is capable of refresh rates greater than 60 Hz, you will need a High Speed HDMI® cable. Conventional HDMI®/DVI cables may not work properly with this mode.
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Select the appropriate HDMI® input mode (**HDMI 1**, **HDMI 2**, **HDMI 3**, or **HDMI 4**):

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **AV Connection**, and then press the **OK** button.
- 2 Press the (▲/▼ arrow) buttons to select **HDMI RGB Range**, and then press the **OK** button.
- 3 Press the (◀/▶ arrow) buttons to select a setting.

Viewing the HDMI® signal information

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **HDMI Information Display**.
- 2 Press the (◀/▶ arrow) buttons to select **On**. Press the **INFO** button.

The normal banner and signal information banner appear.

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- NOTE**
- ❖ The signal information banner will appear when this feature is set to On and you watch an HDMI® input.
 - ❖ If you press the INFO button when this feature is set to Off, only the normal banner will appear.
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Using your computer with the TV

Adjusting the image

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

- 1 Select **PC input mode**, see “Selecting the video input to view” on page 86.
- 2 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Display Settings**, and then press the **OK** button.

- 3 Press the (▲/▼ arrow) buttons to select **PC Settings**, and then press the **OK** button.

NOTE If a computer is not connected or there is no PC input signal, this menu will not be available.

- 4 Press the (▲/▼ arrow) buttons to select an item.
- 5 Press the (◀/▶ arrow) buttons to make adjustments.

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

<i>Mode:</i>	<i>Description:</i>	<i>Adjustment Range</i>
Horizontal Position	Moves the picture left/right	Within ± 10 from center*
Vertical Position	Moves the picture up/down	Within ± 10 from center*
Clock Phase	Helps to reduce noise and sharpen the picture	Within ± 15 from center*
Sampling Clocks	Helps to reduce noise and minimize periodic vertical stripes on the screen	Within ± 5 from center*

* The default settings and/or adjustment ranges vary depending on the input signal format.

To reset the PC Settings:

Select **Reset**, and then press the **OK** button.

Setting the computer audio

You can output sound from your computer when connecting it to your TV, using the AUDIO IN terminal and PC audio cable.

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **AV Connection**, and then press the **OK** button.
- 2 Press the (▲/▼ arrow) buttons to select **PC/HDMI 4 Audio**.
- 3 Press the (◀/▶ arrow) buttons to select **PC**.

NOTE To select PC, set Shared PC Audio to PC.

Setting the timer to turn on the TV

You can set the on timer to turn on the TV to a preset channel or input at a preset time.

To activate the timer:

- 1 Press the **MENU** button. Select **TIMERS, On Timer**, and then press the **OK** button.
- 2 Press the (▲/▼ arrow) buttons to select **Enable On Timer**.
- 3 Press the (◀/▶ arrow) buttons to select **On**.

NOTE If the Enable On Timer is set to Off, other menus under On Timer cannot be changed.

It can take the TV approximately 60 seconds to turn on through the ON TIMER feature.

To set the timer:

- 1 Press the **MENU** button. Select **TIMERS, On Timer**, and then press the **OK** button.
- 2 Set these options to your preference:

<i>Item:</i>	<i>Description:</i>
Input	Video input source
Channel	Channel to view
Volume	Volume level
Time until Power On	Desired length of time until the TV turns on: minimum=00:10, maximum=12:00 Press the (◀/▶ arrow) buttons Use the number buttons

- 3 Select **Done**, and then press the **OK** button.
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NOTE If you do not operate the TV for 1 hour after it is powered on by the On Timer feature, it turns off.

To cancel the timer:

- 1 Press the **MENU** button. Select **TIMERS, On Timer**, and then press the **OK** button.

- 2 Press the (▲/▼ arrow) buttons to select **Enable On Timer**.
- 3 Press the (◀/▶ arrow) buttons to select **Off**.

Setting the sleep timer

You can set the TV to turn off after a specific amount of time (maximum = 12 hours).

Using the remote control:

- 1 Press the **SLEEP** button.
- 2 Set the amount of time until the TV turns off.
 - ❖ Repeatedly press the **SLEEP** button to increase the time.
 - ❖ Press the (▲/▼ arrow) buttons to increase or decrease the time.

Using the on-screen menus:

- 1 Press the **MENU** button. Select **TIMERS**, **Sleep Timer**, and then press the **OK** button.
- 2 Select the amount of time until the TV turns off.
 - ❖ Use the number buttons.
 - ❖ Press the (▲/▼ arrow) buttons to increase or decrease the time.

NOTE If a power failure occurs, the sleep timer setting may be cleared.

To display the time remaining until the TV turns off, press the **SLEEP** button.

To cancel the sleep timer, press the **SLEEP** button repeatedly or press the (▲/▼ arrow) buttons until it is set to 0 minutes.

NOTE When the following features are set, the feature that is set for the nearest time will function.

- ❖ Sleep Timer
- ❖ Auto shutdown after 1 hour of inactivity (after powering on by On Timer)
- ❖ No signal auto power off (after 15 minutes of no signal)

Setting No Signal Power Down

When an input's setting in this feature is set to On, The TV will automatically turn itself off after 15 minutes if no signal is detected.

You can change each input's setting to Off: ANT/CABLE, Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4, or PC.

- 1 Press the **MENU** button. Select **SETTINGS**, **PREFERENCES**, **Power Management**, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to select **No Signal Power Down**, and then press the **OK** button.
- 3 Press the (**▲/▼** arrow) buttons to highlight the item you want to change.
- 4 Press the (**◀/▶** arrow) buttons to select **On** or **Off**. Press the **EXIT** button.

NOTE

- ❖ Default setting for each input is On.
 - ❖ A warning message will appear 1 minute before turning off.
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Displaying TV status information

To display TV status information, press the **INFO** button.

The following information will be displayed (if applicable):

- ❖ Current input (**ANT/CABLE**, **Video**, etc.)
- ❖ Either “**CABLE**” (for cable TV) or “**ANT**” (for over-the-air broadcasts), if **ANT/CABLE** is the current input
- ❖ Channel number (if in **ANT/CABLE** mode)
- ❖ Input label (if set)
- ❖ Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signals only)
- ❖ Stereo, Mono, or SAP audio status (when in HDMI® input mode, PCM)
- ❖ Video resolution
- ❖ Aspect ratio of incoming video signal (4:3 or 16:9)
- ❖ V-Chip rating status (if available)
- ❖ GameTimer (if set)

- ❖ Channel Label (if set or received)
- ❖ Current display mode (Side by Side, Top and Bottom, or Frame Packing)
- ❖ Current display format (2D to 3D, or 3D to 2D)
- ❖ Input video format (3D appears when video format is 3D)

To close the screen, press the **INFO** button again.

The following additional information (only available for ANT/CABLE input) will display for off-air digital channels (if applicable):

- ❖ Title
- ❖ Duration
- ❖ Detailed description

To display the next program's information for digital channels, press the **INFO** button again. Pressing the **INFO** button a third time will remove the entire banner.



(Sample Illustration) Banner

Viewing support information

- 1 Press the **MENU** button. Select **GET HELP, System Information**.
- 2 Press the **OK** button to display support information containing Web/Customer service numbers for US, Canada, and Mexico.

Resetting to Factory Defaults

You can reset all settings and channels.

- 1 Press the **MENU** button. Select **SETTINGS, SETUP, Reset TV**, and then press the **OK** button.
- 2 Enter your PIN code (if a PIN code has been set).
- 3 A confirmation screen appears. Select **Yes**, and then press the **OK** button.

The TV will turn off automatically.

To cancel the reset:

- ❖ Press the (◀/▶ arrow) buttons to select **No**, and then press the **OK** button.

Power failure

If power is lost while you are watching the TV, the Last Mode Memory feature automatically turns on the TV when power is restored.