

Owner's Manual

Integrated High Definition LCD Television

COLORSTREAM® HD

DOLBY
DIGITAL

DOLBY
VOLUME

HDMI HDTV
HIGH DEFINITION TELEVISION

AUDYSSEY
EQ

DIVX®

42ZV650U

47ZV650U

55ZV650U

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

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

Owner's Record

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

Model number: _____

Serial number: _____



Dear Customer,

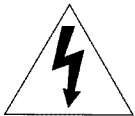
Thank you for purchasing this Toshiba LCD TV. This manual will help you use the many exciting features of your new LCD TV. **Before operating your LCD TV, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

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



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



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



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

WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 23 on page 3 and instructions on page 5.

WARNING: If you decide to wall mount this television, always use a UL Listed wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL Listed wall bracket appropriate for the size and weight of this television for wall mounting this television could result in serious bodily injury and/or property damage. See "Removing the Pedestal Stand" (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 30 and 31 on page 4.

CHILD SAFETY:

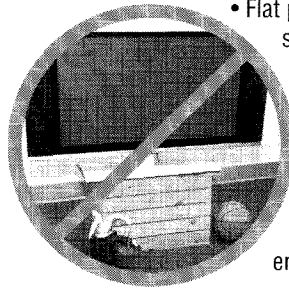
It Makes A Difference How and Where You Use Your Flat Panel Display

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

The Issue

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

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

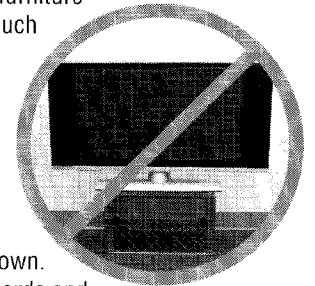


TOSHIBA Cares!

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

Tune Into Safety

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



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

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



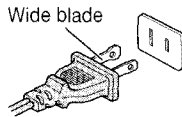
www.CE.org/safety

Important Safety Instructions

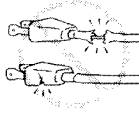
- 1) **Read these instructions.**
 - 2) **Keep these instructions.**
 - 3) **Heed all warnings.**
 - 4) **Follow all instructions.**
-
- 5) **Do not use this apparatus near water.**
-
- 6) **Clean only with dry cloth.**
-
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.
-
- 8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- 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 consult your doctor.




- ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

- 15) **CAUTION:**
 - To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
 - To prevent electric shock, match wide blade of plug to wide slot; fully insert.
- 16) **WARNING:** To prevent the spread of fire, keep candles or other open flames away from this product at all times.

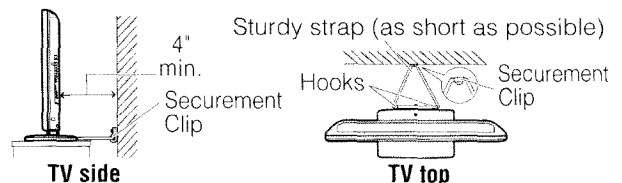
Installation, Care, and Service

Installation

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

- 17)  **WARNING: NEVER expose batteries to excessive heat such as sunshine, fire or the like.**
- 18) ALWAYS plug the product into an outlet that is located in such a manner that it can be easily unplugged in case the product requires service.
- 19) NEVER route the product's power cord inside a wall or similar enclosed area.
- 20) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.
- 21)  **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!** 

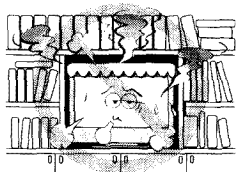
Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.
- 22) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.
- 23) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy strap from the 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.



- 24) The apparatus shall not be exposed to dripping or splashing, and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

25) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.



The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV.

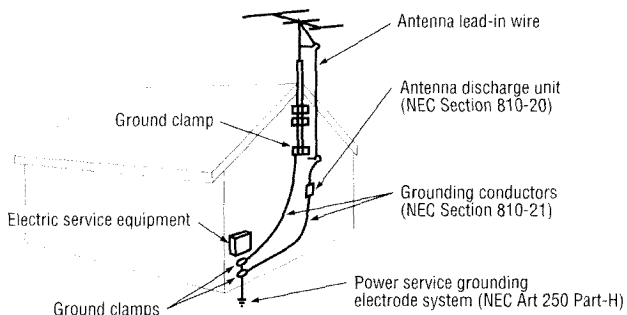
26) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.

27) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

28) Never overload wall outlets and extension cords.

29) Always operate this equipment from a 120 VAC, 60 Hz power source only.

30) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



31) **! DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

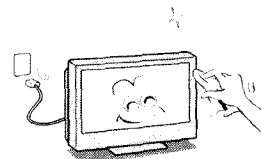
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any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

Care

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

32) If you use the TV in a room whose temperature is 32 °F (0 °C) or below, the picture brightness may vary until the LCD warms up. This is not a sign of malfunction.

33) Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth only (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.



34) **! WARNING: RISK OF ELECTRIC SHOCK!** **!**

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

35) While it is thundering, do not touch the connecting cables or apparatus.

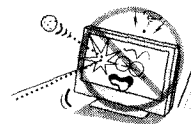
36) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

37) ALWAYS unplug the TV to completely disconnect from mains power. When the TV is turned off using the on/off switch, it is not completely disconnected from power and a minute amount of current is still consumed.

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

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

Never strike the screen with a sharp or heavy object.



- 40) • The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.
- Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 33 on this page.

Service

41)



WARNING: **RISK OF ELECTRIC SHOCK!**



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

42) 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.

43) The fluorescent lamp(s) in the LCD panel contain a small amount of mercury.

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



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

Choosing a location for your LCD TV

To Display your LCD TV on the included Pedestal Stand:

Observe the following safety precautions:

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

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

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

- 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 stud, pillar, surface, or other immovable structure. To secure the TV in this manner: (1) attach the provided securement clip to an immovable structure, then (2) pass a sturdy strap through the securement clip and attach each end to the hooks located on the back of the TV. Be sure to leave at least 4 inches between the TV and the wall or similar structure for ventilation. See item 23, page 3 for additional details.

To Display your LCD TV using a Wall Bracket:

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

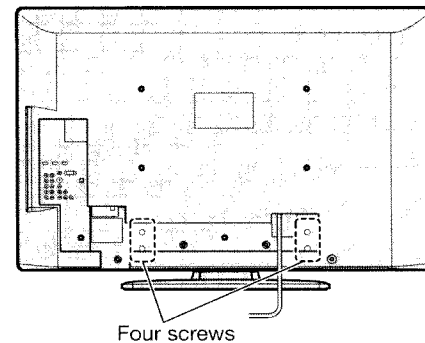
- 1) **CAUTION:** Two people are required for installation.
- 2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
- 3) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the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

Removing the Pedestal Stand

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

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

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



FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 42ZV650U, 47ZV650U and 55ZV650U Televisions** comply with Part 15 of the FCC rules.

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

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

Note: *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:*

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

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

ENERGY STAR® User Information

ENERGY STAR User Information Statement: the factory default settings of this television meet ENERGY STAR® requirements. Enabling or changing certain features and functionality (e.g. Picture Settings, Auto Brightness Sensor, Power-On Mode) 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, set the Auto Brightness Sensor to [On] mode, and set the Power-On mode to [Power-Saving]. [AutoView] mode is recommended for normal home use.

For more information, see page 40.



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

Important notes about your LCD TV

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

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

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

Trademark Information

- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- **AUDYSSEY** Audyssey EQ is based on the award-winning Audyssey MultEQ technology. It is the first-ever room equalization solution that can achieve optimum sound for a large listening area and it is featured in many high end home theater products. Audyssey EQ is used in the TV tuning process to calculate an equalization solution that corrects time and frequency response problems in TV systems. This results in clear, rich sound with more intelligible dialog.
- Manufactured under license from Audyssey Laboratories. U. S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- INSTAPORT™ and INSTAPORT logo are trademarks of Silicon Image, Inc. in the United States and other countries.
- DivX® is a registered trademark of DivX, Inc., and is used under license.

Contents

Important Safety Instructions	3	Selecting the Power-On Mode	40
Installation, Care, and Service	3	Using Blue Screen	40
Choosing a location for your LCD TV	5	Setting the screen transparency	40
Chapter 1: Introduction	9	Viewing the system status	40
Features of your new TV	9	Reset Factory Defaults	40
Overview of steps for installing, setting up, and using your new TV	9	Chapter 6: Using the TV's features	41
TV front and side panel controls and connections	10	Selecting the video input source to view	41
TV back panel connections	11	Tuning channels	42
Chapter 2: Connecting your TV	12	Tuning channels using the Channel Browser™	42
Overview of cable types	12	Setting the Channel Tuning Mode	44
About the connection illustrations	12	Tuning to the next programmed channel	44
Connecting a VCR (or a VCR with S-video) and antenna, Cable TV or Camcorder	13	Tuning to a specific channel (programmed or unprogrammed)	44
Connecting a DVD player with ColorStream® (component video), a VCR, and a satellite receiver	14	Switching between two channels using Channel Return	44
Connecting a device to the IR OUT infrared terminal using the IR blaster cable for IR pass-through device control	15	Switching between two channels using SurfLock™	45
Connecting an HDMI™ or DVI device to the HDMI input	16	Selecting the picture size	46
REGZA-LINK® connection	17	Scrolling the picture	48
Connecting a digital audio system	18	Using the Auto Aspect Ratio feature	48
Connecting an audio system	18	Using the 4:3 Stretch	48
Connecting a personal computer (PC)	19	Using the FREEZE feature	48
Chapter 3: Using the remote control	20	Adjusting the picture	49
Preparing the remote control for use	20	Selecting the picture mode	49
Installing the remote control batteries	20	Adjusting the picture quality	49
Learning about the remote control	21	Using the TheaterLock™ feature	50
Remote Control functional key chart	22	Viewing the Control Visualization window	50
Using the remote control to operate your other devices	24	Using the closed caption mode	50
Programming the remote control to operate your other devices	24	Analog CC Mode	50
Device code setup	24	Digital CC Settings	51
Searching and sampling the code of a device (8500)	25	CC Selector	51
Using the volume lock feature (8000)	25	Using the Closed Caption button on the remote control	51
Operational feature reset (8900)	25	Adjusting the audio	52
Multi-brand remote control device codes	26	Muting the sound	52
Chapter 4: Menu layout and navigation	34	Using the digital audio selector	52
Main menu layout	34	Selecting stereo/SAP broadcasts	52
THINC™ menu	34	Adjusting the audio quality	52
Navigating the menu system	35	Selecting the optical audio output format	53
Chapter 5: Setting up your TV	36	Using the Dolby® Digital Dynamic Range Control feature	53
Initial Setup	36	Using Dolby® Volume	53
Quick Setup from the SETUP menu	36	Setting the PIN code	53
Selecting the menu language	36	Registering a new PIN code	53
Configuring the antenna input source for the ANT/CABLE terminal	37	Changing or deleting your PIN code	53
Programming channels into the TV's channel memory	37	If you cannot remember your PIN code	53
Auto Tuning	37	Blocking TV programs and movies by rating (V-Chip)	54
Manual Tuning	37	Downloading an additional rating system for blocking TV programs and movies	54
Setting channel skip	38	Unlocking programs	55
Setting video input skip	38	Locking channels	56
Labeling input sources	38	Using the input lock feature	56
Setting the Auto Input feature	39	Using the GameTimer®	56
Setting the time zone	39	Using the panel lock feature	56
Selecting the location	39	Using the PC settings feature	57
Selecting the TOSHIBA Illumination mode	39	Setting the PC Audio	57
		Setting the On Timer	58
		Setting the Sleep Timer	58
		Using REGZA-LINK®	59
		REGZA-LINK® playback device (DVD player, etc.) control	59
		REGZA-LINK® input source selection	59
		Amplifier VOLUME and MUTE controls	60

Other REGZA-LINK® functions	60
REGZA-LINK® PC Link	60
Using the HDMI settings feature	61
Setting the HDMI audio mode	61
Displaying TV status information	62
Understanding the auto power off feature	62
Understanding the last mode memory feature	62
Chapter 7: Using the TV's advanced features	63
Using the advanced picture settings features	63
Using Resolution+™	63
Using DynaLight™	63
Using Dynamic Contrast	63
Using the Static Gamma feature	63
Using the Film Stabilization feature	63
Using Expert Mode	64
Using ClearScan 240™ feature	64
Using MPEG NR	64
Using DNR	64
Using the Auto Brightness Sensor	65
Using the Backlight Adjustment Pro	65
Using the ColorMaster™ feature	65
Using the Base Color Adjustment	65
Selecting the color temperature	66
Using the advanced audio settings features	66
Using the surround sound feature	66
Using the Media Player	67
Media Player Specifications	67
Basic operation	67
Playing DivX® files (only for USB devices)	68
Playing MP3 files (only for USB devices)	69
Viewing JPEG files	70
Chapter 8: Troubleshooting	71
General troubleshooting	71
LED indications	73
Chapter 9: Appendix	74
Specifications	74
Acceptable signal formats for	
PC IN and HDMI terminals	75
PC IN signal formats	75
HDMI signal formats	76
Limited United States Warranty	
for LCD Televisions 26" and Larger	77
Limited Canadian Warranty	
for Toshiba Brand Flat Panel Televisions	78
Index	81

Chapter 1: Introduction

Features of your new TV

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

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- **1080p output resolution.**
- **Four HDMI™** digital, high-definition multimedia interfaces with 1080p input support (☞ page 16).
- **HDMI capabilities**
 - Deep Color** feature allows the HDMI source to increase the available colors bits within the boundaries defined by the RGB or YCbCr color space.
 - Lip-Sync** feature activates an auto audio/video display timing adjustment function that allows HDMI source devices to accurately perform synchronization automatically.
 - HDMI INSTAPORT™** technology reduces the lag of switching time when switching HDMI sources.
 - RGB Range** feature adjusts RGB full range signal automatically.
- **REGZA-LINK®** allows control of external devices from the TV remote via HDMI connection (☞ page 59).
- **Two sets of ColorStream® HD** high-resolution component video inputs (☞ page 14).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (☞ page 52).
- **PC IN (Analog RGB)** computer terminal (☞ page 19).
- **IR OUT** infrared terminal using the IR blaster cable for IR pass-through device control (☞ pages 12 and 15).
- **ColorMaster™** allows you to adjust the TV's standard colors. The menu for this feature has a unique "black" design to enhance contrast while you're adjusting the color (☞ page 65).
- **Expert Mode** allows detailed calibration with red, green and blue color selections (☞ page 64).
- **ClearScan 240™** allows picture clarity for fast motion video with new Backlight Scanning technology (☞ page 64).
- **Resolution+™** upconverts and enhances for a More Detailed Picture (☞ page 63).
- **AutoView™** allows you to automatically adjust picture settings based on ambient light conditions and input signal content (☞ page 49).

- **Dolby® Volume** eliminates Inconsistent TV volume on channel changes or commercials (☞ page 53).
- **Media Player** allows you to view your JPEG pictures and DivX® video (☞ page 67).



- **ENERGY STAR®** qualified

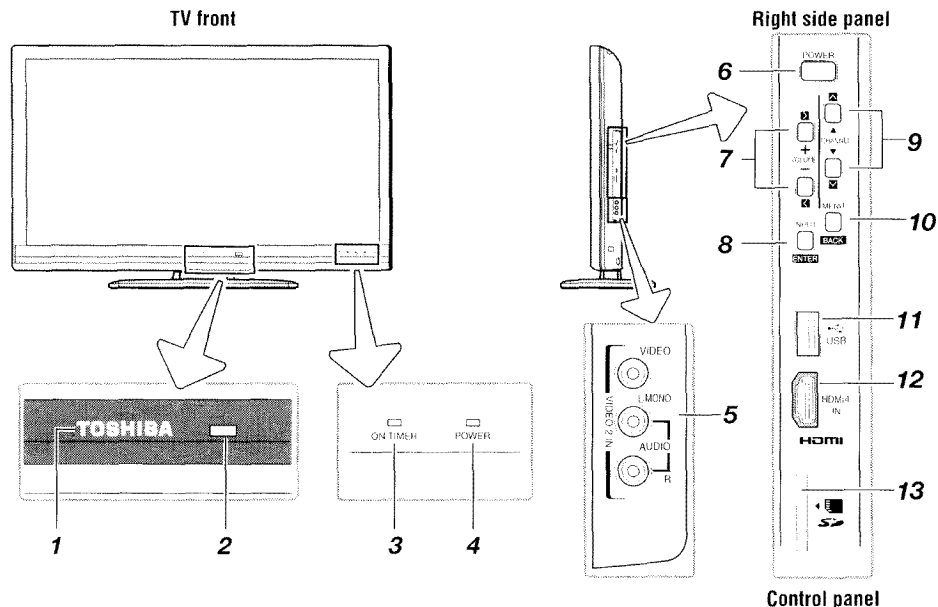
Overview of steps for installing, setting up, and using your new TV

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

- 1 Observe the following when choosing a location for the TV:
 - Read "Important notes about your LCD TV" (☞ page 6).
 - Place the TV in a proper location (☞ pages 2–5).
 - 2 Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.
 - 3 BEFORE connecting cables or devices to the TV, learn the functions of the TV's connections and controls (☞ pages 10–11).
 - 4 Connect your other electronic device(s) to the TV (☞ pages 13–19).
 - 5 See "Chapter 3: Using the remote control" (☞ page 20) for an overview of the buttons on the remote control, install the batteries and prepare to operate your other device(s).
 - 6 AFTER connecting all cables and devices, plug in the power cords for your TV and other devices.
- Note: After you turn on the TV, the Initial Setup menu appears automatically by default.**
- 7 See "Menu layout and navigation" for a quick overview of navigating the TV's menu system (☞ page 34).
 - 8 Program channels into the TV's channel memory (☞ page 37).
 - 9 For details on using the TV's features, see Chapters 6 and 7.
 - 10 For help, refer to the Troubleshooting Guide, see Chapter 8.
 - 11 For technical specifications and warranty information, see Chapter 9.

TV front and side panel controls and connections

Model 42ZV650U is used in this manual for illustration purposes.

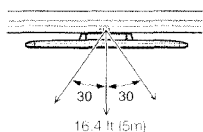


1 TOSHIBA Illumination

The TOSHIBA logo will be illuminated by the LED backlight. See "Selecting the TOSHIBA Illumination mode" on page 39 for additional information.

2 **Remote sensor** — Point the remote control toward this remote sensor.

Effective range:



3 On Timer LED

See "Setting the On Timer" on page 58.

4 Power LED

See "LED indications" on page 73 for additional information.

5 **VIDEO 2 IN** — The side panel A/V connections are referred to as "VIDEO 2" and include standard A/V connections.

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

7 **VOLUME+ -** — These buttons adjust the volume level.

ARROWS <> — When a menu is on-screen, these buttons function as left/right menu navigation buttons.

8 **INPUT/ENTER** — Repeatedly press to change the source you are viewing (**ANT/CABLE, VIDEO 1, VIDEO 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 4, PC**). When a menu is on-screen, the **INPUT** button on the TV's control panel functions as the **ENTER** button.

9 **CHANNEL ▲▼** — When no menu is on-screen, these buttons change the channel (programmed channels only; see page 37).

ARROWS ^ v — When a menu is on-screen, these buttons function as up/down menu navigation buttons.

10 **MENU/BACK** — Press to access the menu system (see page 35). When a menu is on-screen, the **MENU** button on the TV's control panel functions as the **BACK** button.

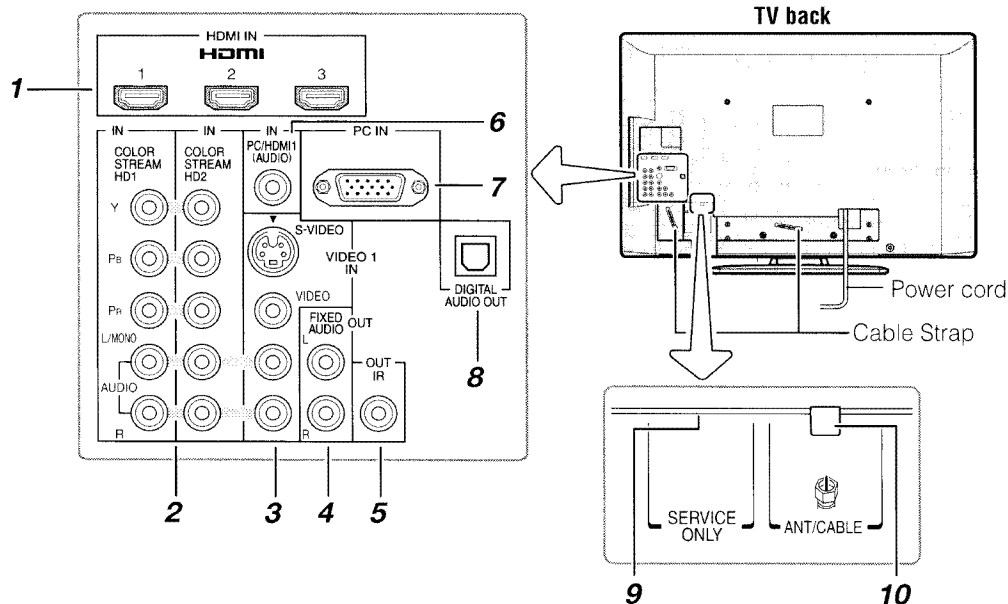
11 **USB terminal** — For use when inserting a USB device.

12 **HDMI™ IN** — High-Definition Multimedia Interface (HDMI 4) 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.

13 **SD card slot** — For use when inserting an SD memory card. Press in SD memory card to insert, and take SD memory card out of the SD card slot to remove.

TV back panel connections

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



1 HDMI™ IN — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 6. HDMI connection is necessary to receive 1080p signals.

2 ColorStream HD1 and ColorStream HD2 — Two sets of ColorStream® high-definition component video inputs (with standard stereo audio inputs) for connecting devices with component video output, such as a Toshiba DVD player with ColorStream®.

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

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

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

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

5 IR OUT — For controlling infrared remote-controlled devices through the TV. You can connect up to two devices with an optical IR blaster cable (see page 12), and then control the devices using the TV's IR pass-through features.

6 PC/HDMI 1 (AUDIO) IN — PC audio input terminal is shared with HDMI 1 analog audio input terminal, and its use can be configured in the **AV Connection** menu (see page 57).

7 PC IN — For use when connecting a personal computer.

8 DIGITAL AUDIO OUT — Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, or home theater system with optical audio input.

9 Service port — For service use only. Used for updating the television's firmware.

10 ANT/CABLE — Input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.

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

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

Chapter 2: Connecting your TV

Overview of cable types

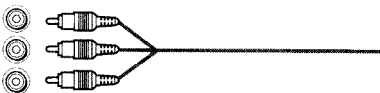
Cables can be purchased from most stores that sell audio/video devices. Before purchasing any cables, be sure of connector types required by your devices and the length of each cable.

Coaxial (F-type) cable



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

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



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

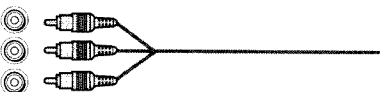
S-video cable



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

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

Component video cables (red/green/blue)



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

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

HDMI™ cable (with HDMI Logo “HDMI”)



HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (see page 16, 17 and 19).

Note: An HDMI cable provides the best audio and picture performance.

Dual-wand IR blaster cable



Dual-wand IR blaster cable is for use with video devices with IR (infrared) remote control. This cable can be used with the TV's IR pass-through feature (see page 15).

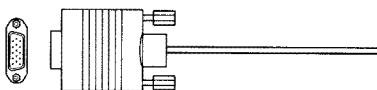
To obtain IR blaster cable:
Visit <http://ceaccessories.toshiba.com/>

Optical audio cable



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

Analog RGB (15-pin) computer cable



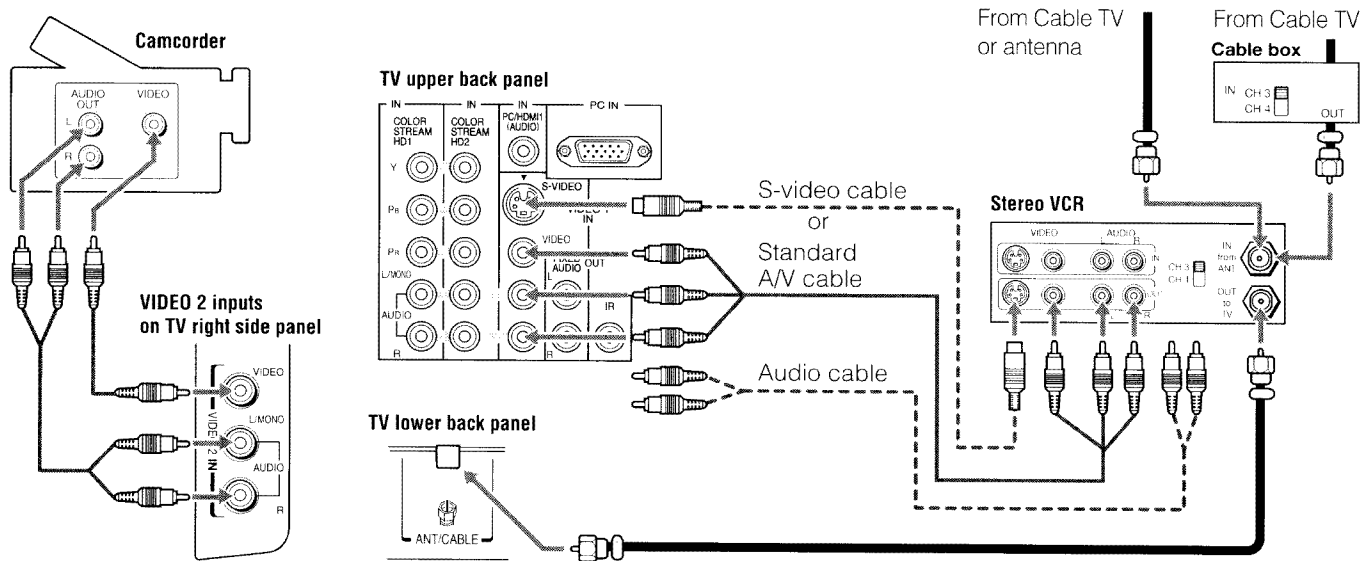
Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (see page 19).

Note: Separate audio cables are required for a complete connection.

About the connection illustrations

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

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



You will need:

- coaxial cables
- standard A/V cables
 - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable.
 - For better picture performance, if your camcorder has S-video, connect an S-video cable (plus the audio cables) to **VIDEO 1** on the TV back instead of the **VIDEO 2** on the TV right side panel.
 - If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.
- S-video cable (if your VCR or camcorder has S-video)
 - Do not connect both types of video cable to **VIDEO 1** at the same time or the picture performance will be unacceptable.
- standard audio cables (if your VCR or camcorder has S-video)

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

To view the antenna or Cable signal:

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

To view basic and premium Cable channels:

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

To view the VCR:

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

To view the camcorder video:

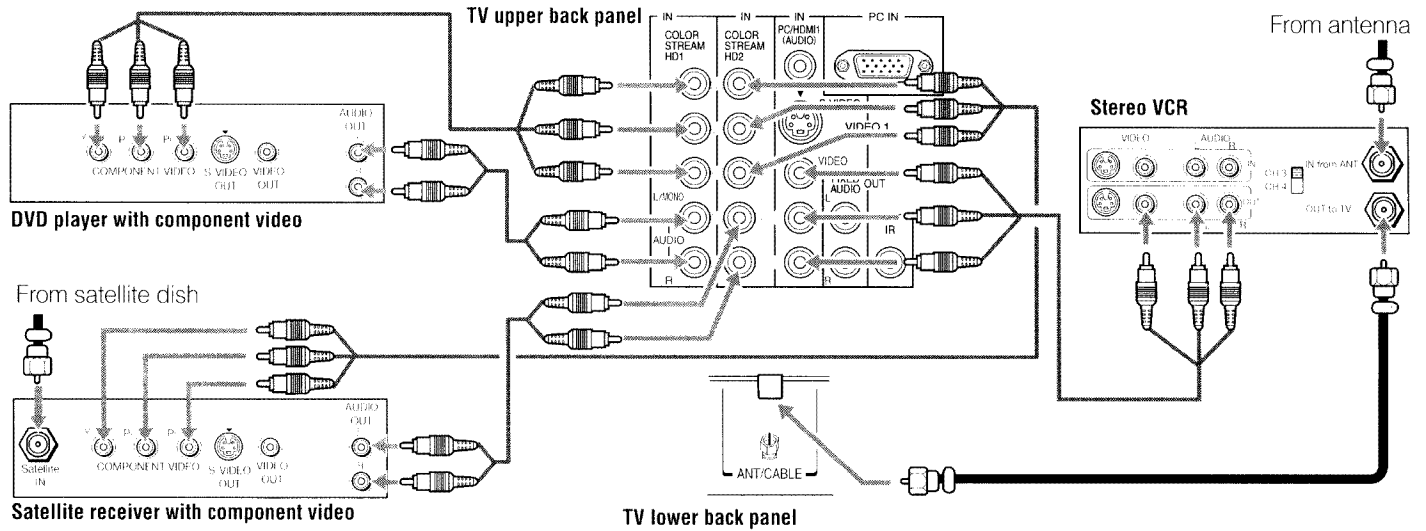
Select the **VIDEO 2** video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (see page 41). To program the TV remote control to operate other devices, see Chapter 3.

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

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

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



You will need:

- coaxial cables
- standard A/V cables
 - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to **VIDEO 1** at the same time or the picture performance will be unacceptable.
 - If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.
- standard audio cables
- component video cables
 - You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to either set of **ColorStream** terminals on the TV (**HD1** or **HD2**). The **ColorStream HD1** and **HD2** terminals can be used to display Progressive (480p, 720p, 1080p) and Interlaced (480i, 1080i). Please check the Owner's Manual of the DVD player or satellite in order to determine the best output signal available (1080p 24Hz/30Hz/50Hz/25Hz are not supported).
 - If your DVD player or satellite receiver does not have component video, connect a standard A/V cable to **VIDEO 2** on the side panel. If your DVD player has HDMI video, see page 16.

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 HD1** video input source on the TV.*

To view satellite programs using the component video connections:

Turn on the satellite receiver. Select the **ColorStream HD2** video input source on the TV.*

To view the VCR or view and record antenna channels:

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

To record a TV program while watching a DVD:

Turn ON the VCR. Tune the VCR to the channel to record. Select the **ColorStream HD1** video input source on the TV* to view the DVD.

* To select the video input source, press **INPUT** on the remote control (page 41). To program the TV remote control to operate other devices, see Chapter 3.

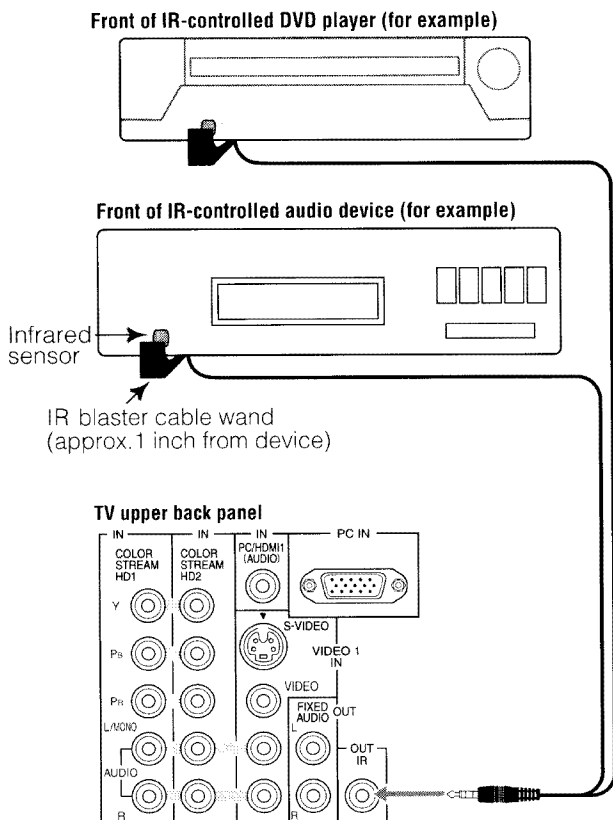
The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a device to the IR OUT infrared terminal using the IR blaster cable for IR pass-through device control

You can use the TV's **IR OUT** terminal (infrared pass-through) to remotely operate (through the TV) many infrared remote-controlled devices (such as Toshiba infrared remote-controlled VCRs or DVD players) enclosed within an entertainment center or similar cabinet. Without the **IR OUT** connection, the device typically would need to be visible to operate it remotely.

You will need:

- dual-wand IR blaster cable (see page 12)
- other audio/video cables as required to connect the device(s) to the TV (see pages 13, 14 and 16)

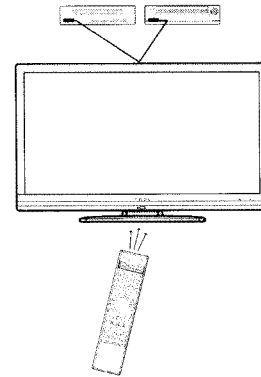


To connect the IR blaster cable:

- 1 Locate the infrared sensor on the front of your device. This sensor is marked on some devices.*
- 2 Align one of the IR blaster cable's wands about 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. (See illustration.)
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 OUT** terminal.

To control the device(s):

Point either the device's remote control or the TV remote control (that you previously programmed to operate the device; see Chapter 3) 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.



Note:

- If you use the device's remote control to operate the device, you also will need to use the TV's remote control to operate the TV.
- The IR pass-through feature does not support all IR-controlled devices; satisfactory performance 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 lower left corner of the device, place the end of the device's remote control (with the infrared emitter) so it touches the front of the device and press **POWER**. (Do not use the TV's remote control for this step.)
- 3 If the device turns on, the point at which the remote control touched the device is the location of the sensor.
- 4 If the device does not turn on, move the remote control slightly to the right and press **POWER** again.
- 5 Repeat step 4 until you locate the device's infrared sensor.

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-E-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 page 76.

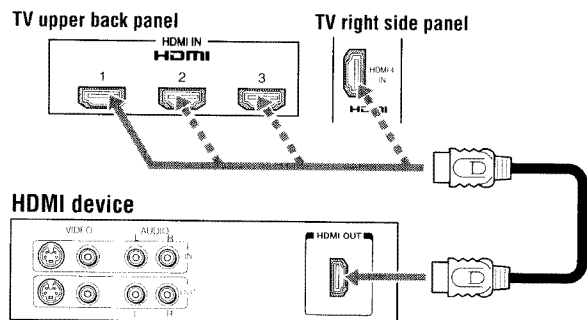
Supported Audio format: Linear PCM, sampling rate 32/44.1/48 kHz

Note:

- To connect a PC to the HDMI input, see page 19.
- Some legacy HDMI sources may not work properly with your HDMI TV, due to the adoption of new standards. Please try setting the following three options (Deep Color, Lip Sync, INSTAPOINT™ and RGB Range) to Off. Your legacy HDMI source should operate properly with your TV. See page 75.

To connect an HDMI device, you will need:

- one HDMI cable per HDMI device
 - For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI).
 - To display an 1080p/60Hz signal format, you will need a High Speed HDMI™ cable. Conventional HDMI/DVI cable may not work properly.
 - HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).
 - See “Setting the HDMI audio mode” (page 61).



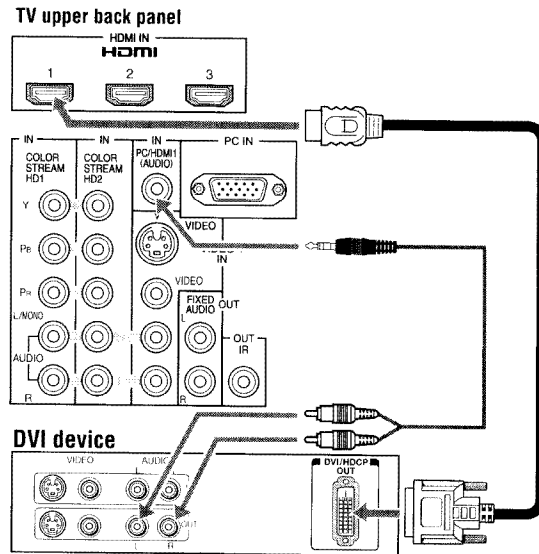
To view the HDMI device video:

Select the HDMI 1, HDMI 2, HDMI 3, or HDMI 4 video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (page 41). To program the TV remote control to operate other devices, see Chapter 3.

To connect a DVI device, you will need:

- one HDMI-to-DVI adapter cable
 - For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).
- one 3.5mm Stereo to RCA Y-Cable
 - An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).
 - See “Setting the HDMI audio mode” (page 61).



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

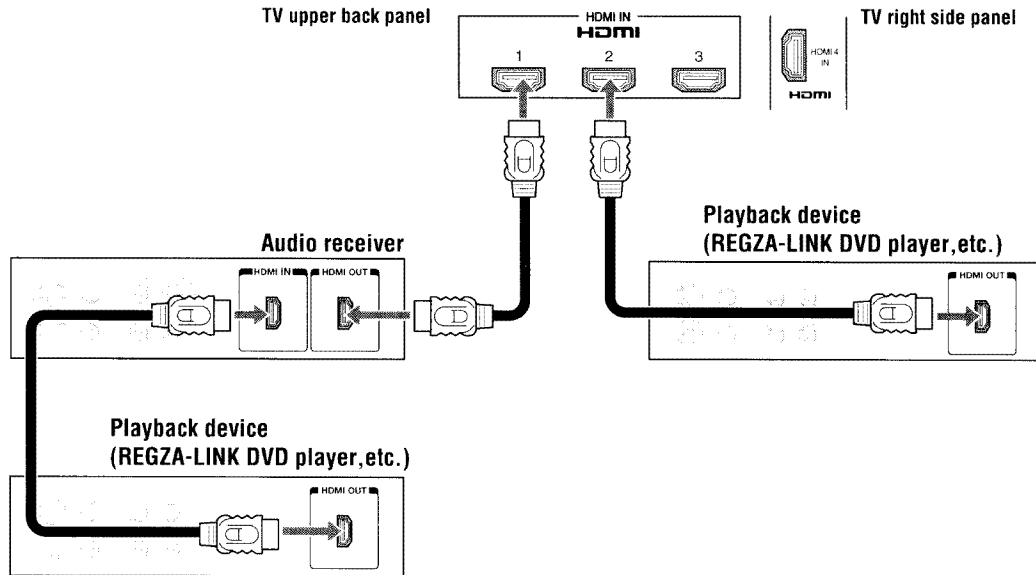
- When turning on your electronic components, **turn on the TV first** and then the HDMI or DVI device.
- When turning off your electronic components, **turn off the HDMI or DVI device first** and then the TV.

[1] EIA/CEA-861-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.

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

REGZA-LINK® connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 59.



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

- HDMI cables (☞ page 12)


Note:

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

Before controlling the device(s):

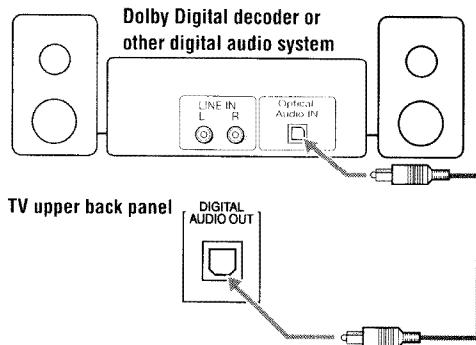
- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (☞ page 60).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses the CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual instruction manuals for compatibility information.

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

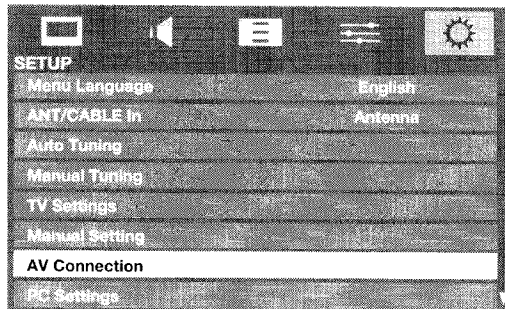
You will need:

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

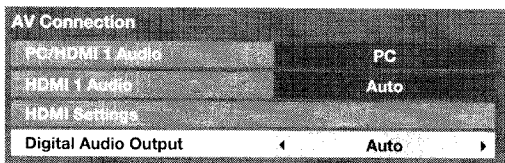


To control the audio:

- 1 Turn on the TV and the digital audio device.
- 2 Press **MENU** on the remote control to open the **SETUP** menu.
- 3 Press **▲** or **▼** to select **AV connection** and press **ENTER**.



- 4 Press **▲** or **▼** to select **Digital Audio Output**, and then press **◀** or **▶** to select either **Auto** or **PCM** (ⓘ "Selecting the optical audio output format" on page 53).



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 only available when tuned to a digital RF channel.

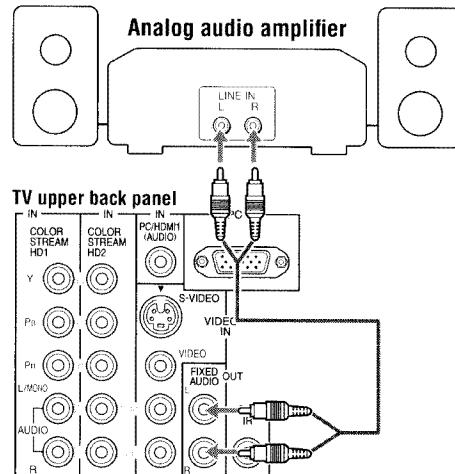
* Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are trademarks of Dolby Laboratories.

Connecting an audio system

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

You will need:

- standard audio cables



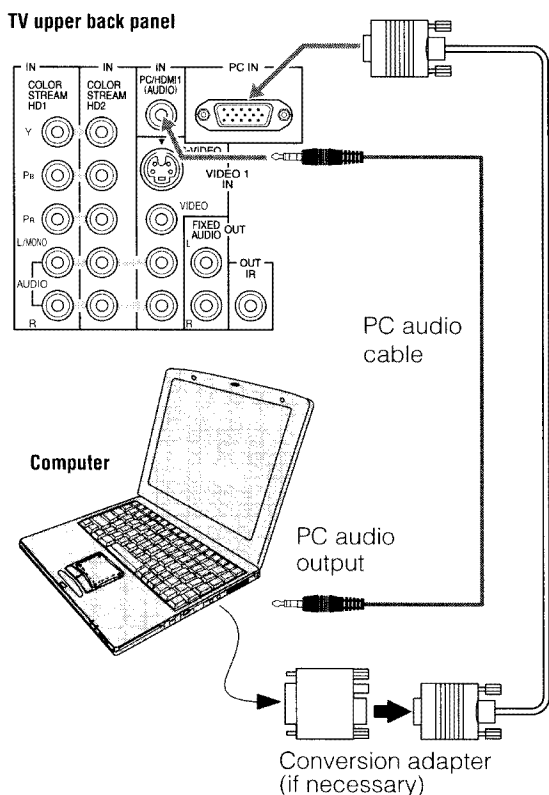
To control the audio:

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

Connecting a personal computer (PC)

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

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

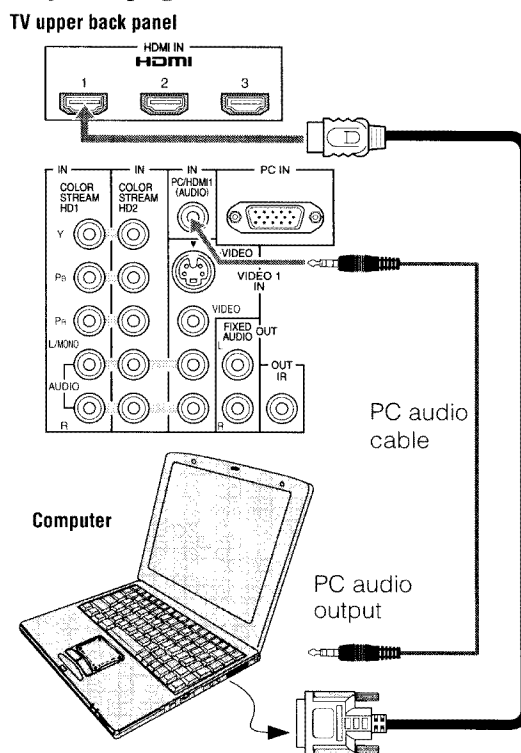


• Signal names for mini D-sub 15-pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	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

To connect a PC to the HDMI terminal on the TV: When connecting a PC to the HDMI terminal on the TV, use an adapter cable and analog audio cables. If connecting a PC with an HDMI terminal, use an HDMI cable. Separate analog cables are not necessary (see page 12).



- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The PC IN terminal can accept and display VGA, SVGA, XGA, WXGA, and SXGA signal formats. For detailed signal specifications, see page 75.
- To display the optimum picture, use the PC settings feature (see "Using the PC settings feature" on page 57).

Note:

- The PC audio input terminals on the TV are shared with the HDMI 1 analog audio input terminals.
- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a compatible mini D-sub 15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.

The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 76.

Note:

- The edges of the images may be hidden.
- If receiving a 480i (HDMI), 480p (HDMI), 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).

Chapter 3: Using the remote control

Preparing the remote control for use

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

If you have a Toshiba device:

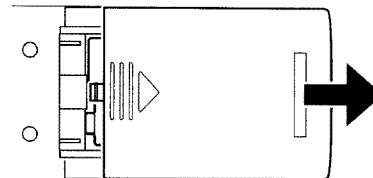
Your TV remote control is preprogrammed to operate most Toshiba devices (see page 22).

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

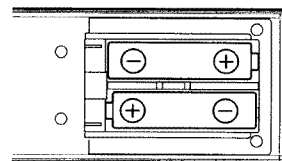
You can program the TV remote control so it will operate the other device (see pages 24).

Installing the remote control batteries

- 1 Slide the battery cover off the back of the remote control.



- 2 Install two "AA" size alkaline batteries. Match the + and - symbols on the batteries to the symbols on the battery compartment.



- 3 Slide the battery cover on to the remote control until the lock snaps.

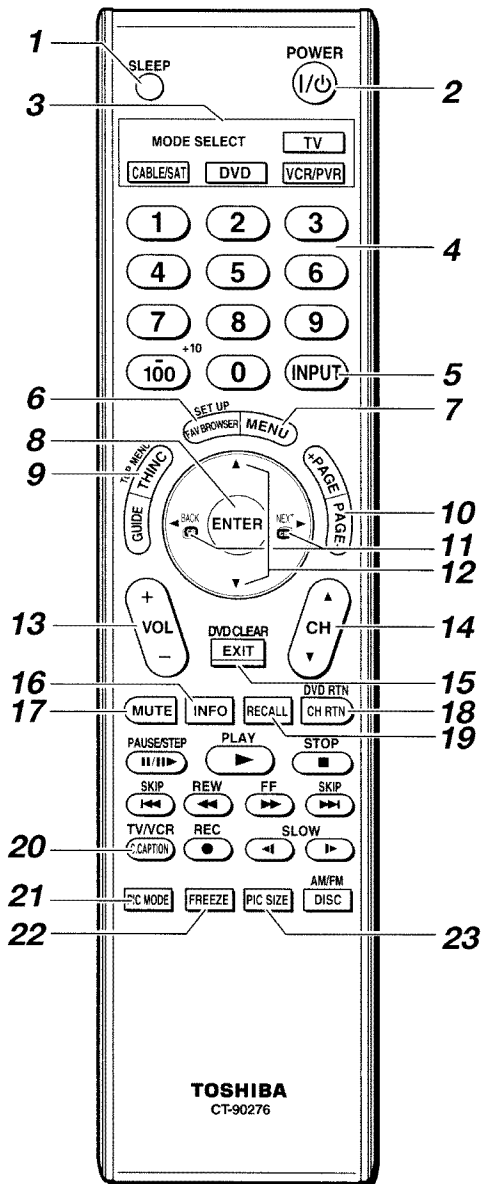
Caution: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Note:

- Be sure to use AA size alkaline batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

Learning about the remote control

The buttons used for operating the TV only are described here. For the REGZA-LINK remote control functions, see the section “Using REGZA-LINK” (page 59). For a complete list of the remote control’s functions, see the remote control functional key chart (pages 22–23).



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

- 1 **SLEEP** accesses the sleep timer (page 58).
- 2 **POWER** turns the TV on and off. When the TV is on, the green LED indicator on the TV front will be illuminated.

- 3 **MODE SELECT** sets the four remote control device modes: **TV**, **CABLE/SAT**, **DVD**, and **VCR/PVR**. Press **TV** until the keypad blinks 3 times to control the TV. The selected MODE key blinks each time any key is pressed. When the Auto Input feature is set, these keys can also be used to change inputs on the TV (page 39).
- 4 **Channel Numbers (0–9, –/100)** directly tune channels. The **100** button is used to enter two part channel numbers (page 44) or to edit the Favorites List (page 42).
- 5 **INPUT** selects the video input source (page 41).
- 6 **FAV BROWSER** accesses the Favorites List in the Channel Browser™ (page 42).
- 7 **MENU** accesses the main TV menu system (pages 34 and 35).
- 8 **ENTER** activates highlighted items in the main menu system.
- 9 **THINC** accesses the THINC™ menu (page 34).
- 10 **PAGE + / –** are used for paging up and down in channel lists.
- 11 **BACK** / **NEXT** While watching TV, these buttons open the Channel Browser™ and tune to the previous/next channel in the channel history (page 42).
- 12 **Arrow buttons (▲▼◀▶)** When a menu is on-screen, these buttons select or adjust programming menus.
- 13 **VOL + –** adjusts the volume level.
- 14 **CH ▲▼** cycles through programmed channels when no menu is on-screen (page 44).
- 15 **EXIT** closes on-screen menus.
- 16 **INFO** displays TV status information as well as program details, when available (page 62).
- 17 **MUTE** reduces or turns off the sound (page 52).
- 18 **CH RTN** returns to the last viewed channel or source (page 44).
- 19 **RECALL** displays TV status information (page 62).
- 20 **C.CAPTION** opens the closed caption/audio selector screen (page 50). (The audio selector is not available for analog channels.)
- 21 **PIC MODE** selects the picture mode (page 49).
- 22 **FREEZE** freezes the picture. Press again to restore the moving picture (page 48).
- 23 **PIC SIZE** cycles through the picture sizes (page 46).

Remote Control functional key chart

REMOTE CONTROL KEY	TV	CABLE/SAT		DVD		VCR/PVR	
	Toshiba TV	CABLE	SAT (satellite)	DVD/VCR (Orion)	DVD Player/Recorder	VCR (Toshiba)	PVR
SLEEP	(TV) Sleep	(TV) Sleep	(TV) Sleep	(TV) Sleep	(TV) Sleep	(TV) Sleep	(TV) Sleep
MODE SELECT	Remote control device mode selection						
POWER	Power	Power	Power	Power	Power	Power	Power
1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1
2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2
3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3
4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4
5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5
6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6
7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7
8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8
9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
100/-/+10	- (digital separator)	----	- (sub CH)	- (digital separator)	- (digital separator)	100	----
INPUT	(TV) Input	(TV) Input	(TV) Input	(TV) Input	(TV) Input	(TV) Input	(TV) Input
▲	Menu select up	Menu select up	Menu select up	Menu select up	Menu select up	----	Menu select up
▼	Menu select down	Menu select down	Menu select down	Menu select down	Menu select down	----	Menu select down
	Menu select left/right/ Back Next	Menu select left/right	Menu select left/right	Menu select left/right	Menu select left/right	----	Menu select left/right
ENTER	Enter	Enter	Select/Enter	Enter	Enter	----	Enter
FAV BROWSER /SETUP	FAV BROWSER	----	----	DVD setup	DVD setup	----	----
MENU	Menu	Cable menu	Action, menu	DVD menu	DVD menu	----	Menu
THINC/ TOP MENU	THINC	THINC	THINC	Top menu	Top menu	THINC	THINC
GUIDE	Guide	Cable Guide	SAT Guide	DVD TV Guide	DVD TV Guide	----	Guide
PAGE +/-	Page up/down	Cable page up/down	Guide page up/down	Guide page up/down	Guide page up/down	----	----
VOL▲/▼	Volume up/down ¹	Volume up/down ¹	Volume up/down ¹	Volume up/down ¹	Volume up/down ¹	Volume up/down ¹	Volume up/down ¹
CH▲/▼	Channel up/down	Channel up/down	Channel up/down	DVD Channel up/down	DVD Channel up/down	Channel up/down	Channel up/down
EXIT/DVD CLEAR	Exit	Exit	Exit	DVD clear	DVD clear	----	Exit
MUTE	Mute ¹	Mute ¹	Mute ¹	Mute ¹	Mute ¹	Mute ¹	Mute ¹
INFO	Guide Info	Info	Info	Display	Display	----	Info
RECALL	(TV) Display	(TV) Display	(TV) Display	(TV) Display	(TV) Display	(TV) Display	(TV) Display

Chapter 3: Using the remote control

REMOTE CONTROL KEY	TV	CABLE/SAT		DVD		VCR/PVR	
	Toshiba TV	CABLE	SAT (satellite)	DVD/VCR (Orion)	DVD Player/Recorder	VCR (Toshiba)	PVR
CH RTN/ DVD RTN	Last Channel	Last Channel	Last Channel	DVD RTN	DVD RTN	----	----
PAUSE/ STEP	Pause	Cable Pause	SAT Pause	Pause	Pause	Pause	Pause
PLAY	Play	Cable Play	SAT Play	Play	Play	Play	Play
STOP	Stop	Cable Stop	SAT Stop	Stop	Stop	Stop	Stop
SKIP -	Skip REW/ Day -	----	----	Skip REW	Skip REW	----	----
SKIP +	Skip FWD/ Day +	----	----	Skip FWD	Skip FWD	----	----
REW	Rewind	Cable Rewind	SAT Rewind	Rewind	Rewind	Rewind	Rewind
FF	FF	Cable FF	SAT FF	FWD	FWD	FWD	FWD
C.CAPTIO N/TV/ VCR	C.Caption	----	TV/SAT	TV/VCR	----	TV/VCR	Reverse
REC	REC menu (Single click)	Cable Record (Double click)	SAT Record (Double click)	Record (Double click)	DVD Record (Double click) ²	Record (Double click)	Record (Double click)
SLOW/ DIR +	Slow/Dir +	----	----	Slow FWD	Slow FWD	Slow FWD	Slow FWD
PIC MODE	(TV) Picture mode	(TV) Picture mode	(TV) Picture mode	(TV) Picture mode	(TV) Picture mode	(TV) Picture mode	(TV) Picture mode
FREEZE	(TV) Freeze	(TV) Freeze	(TV) Freeze	(TV) Freeze	(TV) Freeze	(TV) Freeze	(TV) Freeze
PIC SIZE	(TV) Picture size	(TV) Picture size	(TV) Picture size	(TV) Picture size	(TV) Picture size	(TV) Picture size	(TV) Picture size
DISC/ AM/FM	----	----	----	DVD/VCR	----	----	Replay

Note:

- “---” = key does not send a signal in that remote control mode.

¹Volume will affect the TV by default. When the volume is unlocked, all the devices will have their own volume if their ID has volume data. See “Using the volume lock feature (8000)” (page 25).

²DVD: REC is only for DVD Recorder, no function is picked for DVD Player.

Using the remote control to operate your other devices

Your TV remote control has one dedicated **TV** mode and three programmable multi-brand modes: **CABLE/SAT**, **DVD**, and **VCR/PVR**. The default device modes and programmable device modes are listed below.

Note: The TV remote control is preprogrammed to operate most Toshiba devices. To operate a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you will need to program the remote control. See "Programming the remote control to operate your other devices" (at right).

MODE SELECT	Default device mode control (before programming)
TV	Toshiba TV
CABLE/SAT	Toshiba Satellite receiver
DVD	Orion DVD
VCR/PVR	Toshiba VCR

MODE SELECT	Device mode control after programming
TV	Toshiba TV
CABLE/SAT	Multi-brand video/audio devices
DVD	
VCR/PVR	

Note: Although your new TV's remote control includes codes for many devices, it may not include codes for some or all of the features on certain devices you wish to control. If you are unable to program the TV's remote control to operate your device or some of the features on that device, use the device's remote control or the controls on the device.

Programming the remote control to operate your other devices

Device code setup

- 1 Find the code for your device brand in the remote control device code table on pages 26–33. If more than one code is listed, try each one separately until you find one that works.
- 2 Press the applicable mode select button (**CABLE/SAT**, **DVD**, or **VCR/PVR**), until the mode select button blinks 3 times.
- 3 While holding down **RECALL**, press the five-digit device code for your device.
 - If a valid code is entered, the mode select button will blink twice.
 - If an invalid code is entered, the mode select button will blink one long blink.
- 4 Point the remote control at the device and press **POWER** to test the code.
 - If the device responds to the remote control, you have entered the correct code.
 - If the device does not respond to the remote control, repeat steps 3 and 4 using another code.

Note: After programming the remote control, make sure all necessary keys on the TV remote control (in addition to **POWER**) operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.

- 5 To control the TV, press **TV**.

Note:

- Every time you change the batteries you will need to reprogram the remote control.
- Some newer VCRs respond to either of two codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position ("VCR1" or "VCR2") and reprogram the remote control.

Searching and sampling the code of a device (8500)

If you do not know the device code for a particular device, you can cycle the remote control through the available codes for that device mode and sample the functions to find the code that operates the target device. The keys available to be sampled, provided they are applicable to that mode, are **POWER**, **1**, **VOL+**, **CH+**, and **PLAY**. Invalid keys will be ignored while in program mode.

To cycle through each available device code and sample its functions:

- 1 Press the appropriate mode select button on the remote control.
- 2 While holding down **RECALL**, press 8, 5, 0, 0. The remote control will enter program mode.
- 3 Point the remote control at the target device and press **POWER** (or other function buttons that are available to be sampled).
- 4 If the device responds to the remote control: Press **RECALL** to store the device code. The mode select button will blink two times, and the remote control will exit the program mode. If the device does not respond to the remote control: Press **▲**, and then press **POWER**. Repeat this step until the device responds to the remote control, and then press **RECALL**.

Note: When a search cycle is completed, the mode select button will blink three times. The remote control will begin to cycle through the available codes again. If no key is pressed within 10 seconds during programming, the remote control will exit the program mode and return to the previous code.

Using the volume lock feature (8000)

By default (factory setting), the remote control's volume keys (**VOL+**, **VOL-** and **MUTE**) are locked to the "TV" device mode.

The remote control will operate the TV's volume, even when "TV" is not the current device mode.

If you unlock the remote control's volume keys, each device mode will have its own volume (if the device ID has volume data). The remote control will operate the volume of the device associated with the current device mode.

If you lock the remote control's volume keys to a specific device mode, the remote control will operate the volume of the device associated with the locked mode, even when the locked mode is not the current device mode.

See "Using the remote control to operate your other devices" on page 24.

To lock the remote control's volume keys to a specific mode (CABLE/SAT in this example):

- 1 Press CABLE/SAT.
- 2 While holding down the **RECALL** button, press 8, 0, 0, 0.
- 3 Press **VOL+**. The CABLE/SAT mode select button will blink two times (locked).
The remote control's volume keys will now operate the volume of the device associated with the CABLE/SAT mode, even when CABLE/SAT is not the current device mode.

To unlock the remote control's volume keys:

- 1 While holding down **RECALL**, press 8, 0, 0, 0.
- 2 Press **VOL-**. The CABLE/SAT mode select button will blink four times.
The CABLE/SAT mode will be unlocked.

Operational feature reset (8900)

This feature clears all programmed remote control features not related to "Device code setup" and resets the volume lock to the "TV" device mode.

To reset the remote control:

While holding down **RECALL**, press 8, 9, 0, 0. The mode select button will respond with four blinks.

Multi-brand remote control device codes

TVs

Brand	Code
Toshiba	01524

Cable boxes

Brand	Code
A-Mark	10008, 10144
ABC	10237, 10003, 10008, 10014, 10017
Accuphase	10003, 10014, 10017
Acorn	10237
Action	10237
Active	10237
Americast	10899
Amino	11822
Archer	10237
BCC	10276
Bell & Howell	10014
Bell South	10899
British Telecom	10003
Century	10008
Citation	10017
Clearmaster	10883
ClearMax	10883
Cool Box	10883
Coolmax	10883
Digeo	11187
Digi	10637
Director	10476
Dumont	10637
Emerson	10014
Fosgate	10276
GE	10144
General Instrument	10476, 10810, 10276, 10003, 10012, 10014
Gibraltar	10003
GMI	10883
GoldStar	10144
Hamlin	10009, 10273
Hitachi	10003, 10008, 10009
Insight	10476, 10810
Jebsee	10014
Jerrold	10476, 10810, 10276, 10003, 10012, 10014
Memorex	10000
Mitsubishi	10003

Motorola	11376, 10476, 10810, 10276, 11187, 11254, 10014, 11106
Multitech	10883
Myrio	11822
Nova Vision	10008
Novaplex	10008, 10017
NSC	10012, 10637
Oak	10017
Pace	11877, 10877, 10237, 10008
Panasonic	10000, 10008, 10144, 10107
Panther	10637
Paragon	10000, 10008, 10525
Penney	10000, 10637
Philips	11305, 10317
Pioneer	11877, 10877, 10144, 10533
Prism	10012
Pulsar	10000
Quasar	10000
RadioShack	10883
RCA	11256
Regal	10276, 10279, 10273
Runco	10000
Samsung	10003, 10144
Scientific Atlanta	11877, 10877, 10477, 10237, 10003, 10000, 10008, 10012, 10017
Sony	11006
Sprucer	10144
Starcom	10003, 10014
Stargate	10014
Storm	10637
Supercable	10276
Supermax	10883
Thomson	11256
Tocom	10012
Torx	10003
Toshiba	10000
Tristar	10883
United Cable	10276, 10003, 10014
US Electronics	10276, 10003, 10008, 10017
V2	10883
Videoway	10000
Viewmaster	10883
Vision	10883
Vortex View	10883
Zenith	10000, 10525, 10899, 10017

Satellite receivers

Brand	Code
AlphaStar	10772
Bell ExpressVu	10775
Chaparral	10216
Coolsat	11806
Crossdigital	11109
DirecTV	11377, 10392, 10566, 10639, 11639, 11142, 10247, 10749, 11749, 10724, 10819, 11856, 11076, 11108, 10099, 11109, 11414, 11442, 11609, 11392, 11640
Dish Network System	11505, 11005, 10775, 11170, 11775
Dishpro	11505, 11005, 10775, 11775
Echostar	11505, 11005, 10775, 11170, 11775
Expressvu	10775, 11775
Fortec Star	11821
Funai	11377
GE	10392, 10566
General Instrument	10869
GOI	10775, 11775
Hitachi	10749, 10819
Houston	10775
HTS	10775, 11775
Hughes Network Systems	11142, 10749, 11749, 11442
Humax	11790
Innova	10099
Jerrold	10869
JVC	10775, 11170, 11775
LG	11226, 11414
Magnavox	10724, 10722
McIntosh	10869
Memorex	10724
Mitsubishi	10749
Motorola	10869
Netsat	10099
Next Level	10869
Optimus	10724
Panasonic	10247, 10701
Pansat	11807
Paysat	10724
Philips	11142, 10749, 11749, 10775, 10724, 10819, 11076, 10722, 10099, 11442
Pioneer	11142, 11442
Primestar	10869

Chapter 3: Using the remote control

Proscan	10392, 10566	California Audio Labs	20490	Grundig	20539, 20705
RadioShack	10566, 10775, 10869	Celestial	21020	Harman/Kardon	20582, 20702
RCA	10392, 10566, 11142, 10775, 10855, 10143, 11392, 11442	Centrex	20672, 21004	Hitachi	20573, 20664, 21247
Samsung	11377, 11142, 11276, 11108, 11109, 11442, 11609	Cinea	20831	Hiteker	20672
SKY	10099	CineVision	20876, 20833, 20869	Humax	21588
Sony	10639, 11639, 11640	Citizen	21003, 21277	iLo	21348
Star Choice	10869	Clairtone	20571	Initial	20717
Star Trak	10772, 10869	Coby	20778, 21086, 21107, 21177	Insignia	21268
Thomson	10392, 10566	Craig	20831	Integra	20571, 20627
Tivo	11142, 11442	Creative	20503, 20539	IRT	20783
Toshiba	10749, 11749, 10790, 10819, 11285, 11286, 11287, 11289, 11857, 11858	Curtis Mathes	21087	JBL	20702
UltimateTV	11392, 11640	CyberHome	20816, 20874, 21023, 21024, 21117, 21129, 21502	Jensen	21016
Ultrasat	11806	Cytron	20705	JMB	20695
Uniden	10724, 10722	Daewoo	20784, 20705, 20770, 20833, 20869, 21169, 21172, 21234, 21242	JVC	20558, 20623, 20867, 21164
Voom	10869	Dansai	20770	Kawasaki	20790
Zenith	11856	Decca	20770	Kenwood	20490, 20534
DVDs		Denon	20490, 20634	KLH	20717, 20790, 21020, 21149
Brand	Code	Denver	20778	Kloss	20533
3D LAB	20503, 20539	Desay	21407	Koss	20651, 21061
Accurian	21072, 21416	Digitrex	20672	Lasonic	20627, 20798
Advent	21016	Disney	20675, 21270	Lecson	21533
Afreey	20698	DiViDo	20705	Lenoxx	21127
Aiwa	20641	Dual	20675, 21068	LG	20591, 20741, 20801, 20869
Akai	20695, 20705, 20770, 20899, 21089	Durabrand	21127	LiteOn	21058, 21158, 21416, 21440
Alba	20672, 20717	DVD2000	20521	Loewe	20511, 20741
Alco	20790	Electrohome	21003	Logix	20783
Allegro	20869	Emerson	20591, 20675, 20821, 21268	Magnasonic	20651, 20675
Apex Digital	20533, 20672, 20717, 20755, 20794, 20796, 20797, 20830, 21004, 21020, 21056, 21061, 21100	Enterprise	20591	Magnavox	20503, 20539, 20646, 20675, 20821, 21268
Arrgo	21023	Entivo	20503, 20539	Marantz	20503, 20539, 20675
Aspire Digital	21168, 21407	Enzer	20770	McIntosh	21533
Audiovox	20717, 20790, 21041, 21071, 21072, 21121, 21122	ESA	20821, 21268	Medion	20651
Axion	21071, 21072	Firstline	20651	Memorex	20695, 20831, 21270
Blaupunkt	20717	Fisher	20670	Microsoft	20522, 21708
Blue Parade	20571	Funai	20675, 21268, 21334	Minato	20752
Blue Sky	20695	Gateway	21073, 21158	Mintek	20839, 20717
Bose	21895	GE	20522, 20815, 20717	Mitsubishi	21521, 20521
Brandt	20651	Go Video	20573, 20744, 20717, 20715, 20741, 20783, 20833, 20869, 21044, 21075, 21099, 21158, 21304, 21730	NAD	20591, 20741
Broksonic	20695, 20868	GoldStar	20741, 20801, 20869	Naiko	20770
		Goodmans	20790	NEC	20785, 20869
		Gradiente	20490, 20651	Nesa	20717
		Greenhill	20717	NexxTech	21402
				Norcent	21003, 21107, 21265
				Onkyo	20503, 20627, 20792, 21769
				Optimus	20571
				Orion	21854
				Oritron	20651
				Palsonic	20672

Chapter 3: Using the remote control

Panasonic	20503, 20490, 20571, 20703, 21362, 21462, 21490, 21762
Philips	20503, 20539, 20646, 20675, 20854, 21260, 21267, 21354
PianoDisc	21024
Pioneer	20525, 20571, 20631
Polaroid	21020, 21061, 21086
PolkAudio	20539
Portland	20770
Presidian	20675, 21072
Prima	21016
Proceed	20672
Proscan	20522
ProVision	20778
Qwestar	20651
Radionette	20741
RadioShack	20571
RCA	20522, 20571, 20717, 20790, 20822, 21022, 21132, 21769
Realistic	20571
Reoc	20752
Rio	20869
Rotel	20623
Rowa	21004
Saba	20651
Sampo	20698, 20752
Samsung	20490, 20573, 20744, 20820, 20899, 21044, 21075
Sansui	20695
Sanyo	20670, 20675, 20695, 20873, 21334
Schneider	20783
Schwaiger	20752
Sensory Science	21158
Sharp	20630, 20675, 20752, 21256
Sharper Image	21117
Sherwood	20770, 21043
Shinsonic	20533, 20839
Slim Art	20784
Sonic Blue	20573, 20715, 20783, 20869, 21099
Sony	20533, 21533, 20864, 21033, 21070, 21431
Sova	21122
Superscan	20821
SVA	20717
Sylvania	20675, 20821, 21268

Symphonic	20675, 20821, 21268, 21334
Tatung	20770
Teac	20571, 20717, 20790
Technics	20490, 20703
Technika	20770
Tevion	20651
Theta Digital	20571
Thomson	20522, 20511
Tivo	21503, 21588
Toshiba	20503, 20573, 20539, 20695, 21045, 21154, 21503, 21515, 21588, 21769, 21854
Unimax	20770
Universum	20591
Urban Concepts	20503, 20539
US Logic	20839
V	21064, 21226
Venturer	20790
Visio	21064, 21226
Vizio	21064, 21226
Xbox	20522, 21708
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 20741, 20869
Zeus	20784
Zoece	21265

DVD-R

Brand	Code
Accurian	21416
Apex Digital	21056
Aspire Digital	21168
Coby	21086
CyberHome	21129, 21502
Funai	20675, 21334
Gateway	21073, 21158
Go Video	20741, 21158, 21304, 21730
iLo	21348
JVC	21164
LG	20741
LiteOn	21158, 21416, 21440
Magnavox	20646, 20675
Panasonic	20490
Philips	20646
Pioneer	20631
Polaroid	21086
RCA	20522
Samsung	20490
Sensory Science	21158
Sharp	20675

Sony	21033, 21070, 21431
Sylvania	20675
Toshiba	21510
Zenith	20741

DVD/VCR Combo

Brand	Code
Allegro	20869
Apex Digital	21061
Broksonic	20695
CineVision	20833, 20869
Daewoo	20833, 20869
Emerson	20675
Funai	20675
Go Video	20744, 20715, 20741, 20833, 20869, 21044, 21075
GoldStar	20741
Hitachi	20664
JVC	20867, 21164
LG	20741
Magnavox	20675
Memorex	20695
Panasonic	21762
Philips	20675, 21267
Polaroid	21061
Presidian	20675
RCA	20522, 20822
Samsung	20820, 21044, 21075
Sansui	20695
Sanyo	20670, 20873
Sharp	20630
Sony	20864, 21033, 21070, 21431
Sylvania	20675
Symphonic	20675
Toshiba	20503, 21854
Zenith	20741, 20869
Emerson	31593
Funai	31593
Hitachi	30000
Magnavox	31593
Presidian	31593
RCA	30060
Sanyo	30104
Sharp	30848
Sylvania	30000, 30593, 31593
Symphonic	30000, 31593
Toshiba	41788

VCRs			
Brand	Code		
A-Mark	30037,30240,30000,30278,30046	Crosley	30035,30081,30000,30149
ABS	31972	Crown	30072,30278
Admiral	30060,30048,30039,30047,30104,30209,30020,30062,30479	Curtis Mathes	30060,30035,30162,30240,30000,30041,30278,30432,30760,31035
Adventura	30037,30240,30000	Cybernex	30240
Adyson	30072	CyberPower	31972
Aiko	30278	Daewoo	30037,30045,30278,30020,30046,30561,31278
Aiwa	30037,30000,30124,30307	Daytron	30037,30278,30020
Akai	30041,30061,30106,30175	Dell	31972
Alba	30209,30072,30278	Denon	30081,30042
Alienware	31972	Derwent	30041
Allegro	30039	DirecTV	30739
America Action	30278	Dual	30000
American High	30035,30081	Durabrand	30039,30038
Amstrad	30000	Dynatech	30240,30000
Asha	30240	Electrohome	30060,30037,30240,30000,30043,30209,30002,30278,30202,30208,30061,30479,30561,30593,31278,31479,31593
Astra	30035,30240	Electrohome	30060,30037,30240,30000,30043,30209,30002,30278,30202,30208,30061,30479,30561,30593,31278,31479,31593
Audiovox	30037,30278,30038	Emerson	30037,30184,30240,30000,30121,30043,30209,30002,30278,30202,30208,30061,30479,30561,30593,31278,31479,31593
Avis	30000,30072	Emerex	30032
Beaumark	30240	Emerson	30037,30184,30240,30000,30121,30043,30209,30002,30278,30202,30208,30061,30479,30561,30593,31278,31479,31593
Bell & Howell	30035,30048,30039,30000,30104,30046,30479	Fisher	30039,30047,30000,30104,30046
Broksonic	30184,30121,30209,30002,30208,30479,31479	Fuji	30035,30033
Calix	30037	Fujitsu	30000
Candle	30037,30038	Funai	30037,30000,30072,30278,30593,31593
Canon	30035	Garrard	30000
Capehart	30002,30020,30062	Gateway	31972
Carrera	30240	GE	30060,30035,30048,30240,30000,30149,30202,30760,30807,31035,31060
Carver	30035,30081	Gemini	30060
CCE	30072,30278	Genexxa	30037,30000,30278
Cineral	30278	Go Video	30240,30432,30526,30614
Citizen	30035,30037,30240,30000,30209,30278,30479,31278	GoldStar	30035,30037,30039,30000,30278,30038,31237
Classic	30037		
Colortyme	30060,30035,30045,30278		
Colt	30000,30072		
Craig	30037,30047,30240,30072,30271		
Criterion	30000,30072		
		Goodmans	30037,30081,30000,30072,30278,30020,30062
		Gradiente	30000,30008
		Granada	30081,30042
		Grundig	30081
		Harley Davidson	30000
		Harman/Kardon	30081,30038
		Harvard	30072
		Harwood	30072
		Headquarter	30046
		Hewlett Packard	31972
		HI-Q	30035,30047,30000
		Hitachi	30035,30037,30045,30000,30042,30041,30089,30105
		Hitachi	30035,30037,30045,30000,30042,30041,30089,30105
		Howard Computers	31972
		HP	31972
		Hughes Network Systems	30042,30739
		Humax	30739
		Hush	31972
		HYTEK	30047,30000,30072
		iBUYPOWER	31972
		ITT Nokia	30240,30041
		Janeil	30240
		Jensen	30067,30041
		JVC	30067,30041,30008,30061,31162
		KEC	30037,30278
		Kenwood	30067,30041,30038,30046
		KLH	30072
		Kodak	30035,30037
		KTV	30000
		LG	30037,30240,30038,31037
		Linksys	31972
		Lloyd's	30240,30000,30072,30038,30208
		Loewe	30081
		Logik	30240,30000,30072
		Lumatron	30278
		Luxor	30046,30106
		LXI	30037,30000,30042,30067
		M Electronic	30240
		Magnasonic	30037,30240,30000,30072,30278,30020,30593,31278

Chapter 3: Using the remote control

Magnavox	30035,30037, 30048,30039, 30081,30240, 30000,30149, 30563,30593, 30618,31593, 31781	Optimus	31062,30035, 30162,30037, 30048,30047, 30240,30000, 30104,30062, 30432,30593, 31048,31162, 31262	Randex	30037
Magnin	30240	Optonica	30062	RCA	30060,30035, 30048,30240, 30045,30000, 30042,30149, 30105,30106, 30202,30760, 30807,30880, 31035, 31060
Marantz	30035,30081, 30038, 30062	Orion	30184,30240, 30000,30104, 30121,30209, 30002,30278, 30208,30479, 31479	Realistic	30035,30162, 30037,30048, 30047,30240, 30000,30104, 30121,30278, 30046,30062, 31162
Marta	30037	Panama	30035	ReplayTV	30614, 30616
Matsui	30037, 30209	Panasonic	31062,30035, 30162,30000, 30020,30225, 30614,30616, 31035,31162, 31262	Ricavision	31972
Matsushita	30035,30162, 30081, 31162	Penney	30035,30162, 30037,30047, 30081,30240, 30000,30042, 30067,30038, 31035, 31237	Runco	30039
Media Center PC	31972	Pentax	30042, 30105	Samsung	30060,30240, 30045,30000, 30038,30432, 30739, 31014
MEI	30035	Philco	30035,30081, 30000,30209, 30479	Samtron	30240
Memorex	30035,30162, 30037,30048, 30039,30047, 30240,30000, 30104,30209, 30072,30278, 30062,30046, 30307,30479, 31037,31162, 31237, 31262	Philips	30035,30162, 30048,30081, 30045,30000, 30209,30062, 30616,30618, 30739,31081, 31181	Sanky	30048, 30039
Metz	30037	Pilot	30037	Sansui	30240,30000, 30067,30209, 30041,30072, 30002,30271, 30479, 31479
MGA	30060,30240, 30043, 30061	Pioneer	30162,30081, 30042, 30067	Sanyo	30047,30240, 30000,30104, 30046,30159, 30479
MGN Technology	30240	Polk Audio	30081	Scientific Atlanta	30008
Microsoft	31972	Portland	30278, 30020	Scott	30184, 30045, 30121,30043, 30208, 30210
Midland	30240	Presidian	31593	Sears	30060,30035, 30162,30037, 30048,30039, 30047,30033, 30045,30000, 30042,30104, 30067,30043, 30209,30041, 30072,30046, 30105, 31237
Mind	31972	Profitronic	30240	Sharp	30048,30047, 30032,30000, 30062,30807, 30848
Minolta	30042, 30105	Proscan	30060,30202, 30760, 31060	Shintom	30039,30240, 30000,30072, 30208
Mitsubishi	30060,30048, 30047,30000, 30042,30067, 30043,30041, 30061, 30807	Protec	30000, 30072	Shogun	30240
Motorola	30035, 30048	Protech	30072	Siemens	30037, 30104
Movie Walker	30072	Pulsar	30039,30240, 30278	Signature	30060,30035, 30037,30048, 30000,30149, 30046, 30479
MTC	30240,30000, 30072	Pulser	30240	Singer	30037,30240, 30072
MTX	30000	Quarter	30046	Sonic Blue	30614, 30616
Multitech	30039,30000, 30072	Quartz	30035,30047, 30046	Sonographe	30046
NAD	30240, 30104	Quasar	30035,30162, 30002,31035, 31162		
NEC	30104,30067, 30041, 30038	RadioShack	30035,30162, 30037,30048, 30047,30240, 30000,30104, 30046,30062, 31037, 31162		
New Tech	30072	Radix	30037		
Nikko	30037, 30278				
Nikkodo	30037, 30278				
Nishi	30240				
Niveus Media	31972				
Noblex	30240				
Northgate	31972				
Olympus	30035,30162, 30104				
Onkyo	30222				

Chapter 3: Using the remote control

Sony	30035,30047, 30032,30033, 30000,30067, 30046,30636, 31032,31232, 31972
Soundmaster	30000
Stack 9	31972
STS	30042, 30105
SV2000	30000, 30072
SVA	30000
Sylvania	30035,30081, 30000,30043, 30593,31593, 31781
Symphonic	30240,30000, 30002,30593, 31593
Systemax	31972
Tagar Systems	31972
Tandy	30000, 30104
Tatung	30048,30081, 30000,30067, 30041, 30008
Teac	30000,30067, 30041
Technics	30035,30162, 30037, 30000
Teknika	30035,30037, 30000
Telecorder	30240
Telefunken	30041, 30208
Tevion	30479
Thomas	30000, 30002
Thomson	30060,30041, 30202
Tisonic	30278
Tivo	30618,30636, 30739, 31996
TMK	30240,30000, 30208
TNIX	30037
Tocom	30240
Toshiba	30240,30045, 30000,30043, 30209,30041, 30062,30210, 30845,31008, 31145,31972, 31996
Tosonic	30278
Totevision	30037, 30240
Touch	31972
Trix	30037
Ultra	30045,30278, 30020
Unitech	30240
Vector	30045
Vector Research	30184, 30038
Vextra	30072
Victor	30067,30041, 30008

Video Concepts	30045,30061, 30210
Videomagic	30037
Videosonic	30240,30000, 30072
Viewsonic	31972
Villain	30000
Voodoo	31972
Wards	30060,30035, 30037,30048, 30047,30081, 30033,30240, 30045,30000, 30042,30043, 30041,30072, 30038,30149, 30046,30062, 30479, 30760
Wharfedale	30593
White	30000,30209, 30072,30278, 30479
Westinghouse	
World	30209,30002, 30479
XR-1000	30035,30240, 30000,30072, 30208
Yamaha	30041, 30038
Zenith	30037,30039, 30033,30000, 30209,30041, 30278,30479, 31139, 31479
ZT Group	31972

PVRs

Brand	Code
ABS	31972
Alienware	31972
CyberPower	31972
Dell	31972
DirecTV	30739
Gateway	31972
Hewlett Packard	31972
Howard Computers	31972
HP	31972
Hughes Network Systems	30739
Humax	30739
Hush	31972
iBUYPOWER	31972
Linksys	31972
Media Center PC	31972
Microsoft	31972
Mind	31972
Niveus Media	31972
Northgate	31972
Panasonic	30616
Philips	30618, 30739
RCA	30880
ReplayTV	30614, 30616

Samsung	30739
Sonic Blue	30614, 30616
Sony	30636, 31972
Stack 9	31972
Systemax	31972
Tagar Systems	31972
Tivo	30618, 30636, 30739
Toshiba	31008, 31972, 31996
Touch	31972
Viewsonic	31972
Voodoo	31972
ZT Group	31972

Cable/PVR Combo

Brand	Code
Americast	10899
Amino	11822
Digeo	11187
General Instrument	10810
Jerrold	10810
Motorola	11376, 10810, 11187, 11106
Myrio	11822
Pace	11877, 10237
Pioneer	11877, 10877
RCA	11256
Scientific Atlanta	11877, 10877
Sony	11006
Supercable	10276
Thomson	11256
Zenith	10899

DBS/PVR Combo

Brand	Code
DirecTV	11377,10392, 10639,11142, 11076,10099, 11392,11442, 11640
Dish Network System	11505, 10775
Dishpro	11505, 10775
Echostar	11505,10775, 11170
Expressvu	10775
Hughes Network Systems	11142, 11442
JVC	11170
Motorola	10869
Philips	11142, 11442
Proscan	10392
RCA	11392
Samsung	11442
Sony	10639, 11640
Star Choice	10869

Chapter 3: Using the remote control

Hughes Network Systems	30739
Philips	30739
Samsung	30739

Audio Amp

Brand	Code
Adcom	40577
Bose	40674
Carver	40892
Curtis Mathes	40300
GE	40078
Harman/Kardon	40892
JVC	40331
Left Coast	40892
Marantz	40892
NEC	40264
Optimus	40013, 40300, 40823
Philips	40892
Pioneer	40013, 40300, 40823
Polk Audio	40892
RCA	40013, 40300, 40823
Realistic	40013
Shure	40264
Sony	40689, 40815
Soundesign	40078
Victor	40331
Wards	40078, 40013
Yamaha	40354, 40133

CD players

Brand	Code
Acoustic Research	50420
Aiwa	50157
Arcam	50157
Audio Research	50157
Burmester	50420
Cairn	50157
California Audio Labs	50029, 50303
Cambridge Soundworks	50157
Carver	50157, 50179
Curtis Mathes	50032
Denon	50003, 50034
DKK	50000
DMX Electronics	50157
Fisher	50000, 50179
Garrard	50420
Genexxa	50032
Grundig	50157
Hafler	50173
Harman/Kardon	50100, 50157, 50173
Hitachi	50032

Inkel	50157, 50180
Integra	50101
Jerrold	50003
JVC	50032, 50072
Kenwood	50626, 50000, 50029, 50028, 50037, 50190
KLH	51711
Krell	50157
Linn	50157
LXI	50179
Magnavox	50157, 50274
Marantz	50626, 50029, 50157, 50180
Matsui	50157
McIntosh	50256
MCS	50029
Memorex	50000, 50032, 50179, 50420, 50468
Micromega	50157
Miro	50000
Mission	50157
Modulaire	50000, 50032, 50087, 50179, 50180, 50420, 50468
MTC	50420
NSM	50157
Onkyo	51327, 50101
Optimus	50000, 50032, 50037, 50087, 50179, 50420, 50468
Panasonic	50029, 50303, 50388, 50752
Parasound	50420
Penney	50029
Philips	50626, 50157, 50274
Pioneer	51062, 50032, 51087, 50468
PolkAudio	50157
Proceed	50420
Proton	50157
QED	50157
Quad	50157
Quasar	50029
RadioShack	50000, 50032, 50179, 50180, 50420, 50468
RCA	51062, 50032, 50053, 50179, 50420, 50468
Realistic	50000, 50032, 50087, 50179, 50180, 50420, 50468
Revox	50157
Rotel	50157, 50420
SAE	50157
Sansui	50000, 50157

Sanyo	50000, 50087, 50179
Sears	50179
Sharp	50037, 50180
Sherwood	50180
Sonic Frontiers	50157
Sony	50490, 50000, 50100, 51364, 50185
Sugden	50157
Sylvania	50157
Symphonic	50180
TAG McLaren	50157
Tandy	50032
Tascam	50420
Teac	50490, 50180, 50420
Technics	50029, 50303
Techwood	50303
Thule Audio	50157
Victor	50072
Wards	50032, 50157, 50053, 50087, 50179
Yamaha	50490, 50036, 51292
Yorx	50000

Audio Amp/Tuners

Brand	Code
ADC	40531
Aiwa	41405, 40189, 40121, 41388, 41641
Alco	41390
AMC	41077
Anam	41609, 41074
Apex Digital	41774
Arcam	41189
Audiotronic	41189
Audiovox	41390
B&K	40701, 40820
Bose	41229, 40639, 41253, 41933
Cairn	40189
Capetronic	40531
Carver	41189, 40189, 40121, 41289
Curtis Mathes	40014
Denon	41360, 40121, 40771, 41142, 41306
Emerson	40531
Fisher	41801
Grundig	40189
Harman/Kardon	40110, 40189, 40891, 41289, 41304, 41306
Hitachi	41273, 41801





Chapter 3: Using the remote control


Integra	40135, 40842, 41298, 41320	Sony	41058, 41441, 41258, 41622, 41658, 41758, 41858
JBL	40110, 41306		
JVC	41058, 40074, 41374, 41495, 41811	Stereophonics	41023
Kawasaki	41390	Sunfire	41313
Kenwood	41313, 41570, 41569, 40186	Teac	41074, 41390
KLH	41390, 41428	Technics	41308, 41518, 40309, 41633
Koss	41366, 41497	Thorens	41189
LG	41293	Toshiba	40135, 40842, 41788
Linn	40189	Venturer	41390
Liquid Video	41497	Victor	40074
Magnavox	41189, 41269, 40189, 40531, 41266, 41514	Wards	40189, 40014
Marantz	41189, 41269, 40189, 40891, 41289	Yamaha	41023, 40176, 40186, 41176, 41276, 41331, 41375
McIntosh	41289	Zenith	41293
Micromega	41189, 40189		
Mitsubishi	41393		
Myryad	41189		
Nakamichi	41313		
Onkyo	40135, 40842, 41298, 41320, 41531		
Optimus	41023, 40074, 40014, 40121, 40186, 40531, 41074		
Oritron	41366, 41497		
Panasonic	41308, 41518, 40309, 41288, 41316, 41548, 41633, 41763, 41764		
Philips	41189, 41269, 40189, 40891, 41266		
Pioneer	41023, 40014, 40150, 40531, 40630, 41384		
Polaroid	41508		
Polk Audio	40189, 41289		
Proscan	41254		
RadioShack	41609		
RCA	41023, 41609, 41254, 40531, 41074, 41390, 41511		
Realistic	41609, 40121, 40186		
Revox	40189		
Samsung	41295, 41304, 41500		
Sansui	41189, 40189		
Sanyo	41251, 41469, 41801		
Sharp	40186		
Sherwood	41077		
Sirius	41811		

Chapter 4: Menu layout and navigation

Main menu layout

To open the main menus (illustrated below), press **MENU** on the remote control or TV control panel.

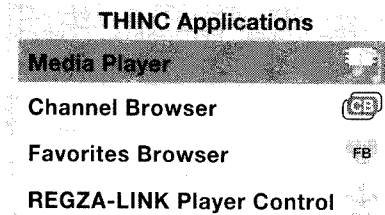
Icon	Item	Page
PICTURE 	Picture Mode	49
	Reset	49
	Backlight	49
	Contrast	49
	Brightness	49
	Color	49
	Tint	49
	Sharpness	49
	Advanced Picture Settings	63
	Control Visualization	50
	TheaterLock	50
	SOUND 	MTS
Bass		52
Treble		52
Balance		52
Advanced Audio Settings		66
Dolby Volume		53
Dynamic Range Control		53
APPLICATIONS 	Media Player	67
	Channel Browser	42
	Favorites Browser	42
	REGZA-LINK Player Control	59
	On Timer	58
	Sleep Timer	58
	REGZA-LINK Setup	60
PREFERENCES 	Channel Browser Setup	42
	CC and Digital Audio Selectors	50
	PIN Setting	53
	Parental Control and Locks	54
	Auto Aspect	48
	4:3 Stretch	48
	Auto Input	39
	Blue Screen	40
	Transparency	40
	TOSHIBA Illumination	39

Icon	Item	Page
SETUP 	Menu Language	36
	ANT/CABLE In	37
	Auto Tuning	37
	Manual Tuning	37
	TV Settings	38
	Manual Setting	38
	AV Connection	61
	PC Settings	57
	Picture Position	48
	Quick Setup	36
	Power-On Mode	40
	Location	39
	System Information	40
	Reset TV	40

THINC™ menu

The THINC™ menu provides access to the **Media Player**, **Channel Browser**, **Favorites Browser**, and **REGZA-LINK Player Control** features.

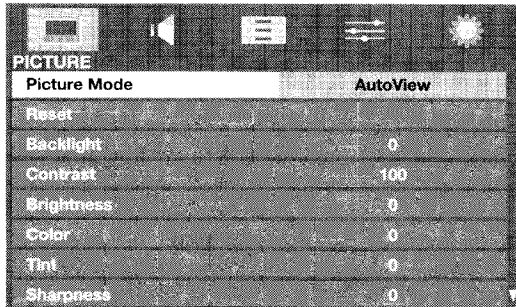
The THINC™ menu is not part of the main menu system. You can only view the THINC menu by pressing **THINC** on the remote control.



Navigating the menu system

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

- Press **MENU** to open the main menus.



- Press **◀** or **▶** on the remote control or TV control panel to select the top menu, its respective items will appear below.
- To use the items, press **▲** or **▼** on the remote control or TV control panel to move up and down through them and press **ENTER**.
- Press **◀** or **▶** to adjust settings.
- All menus close automatically if you do not make a selection within 60 seconds.
- To close a menu instantly, press **MENU** or **EXIT**.

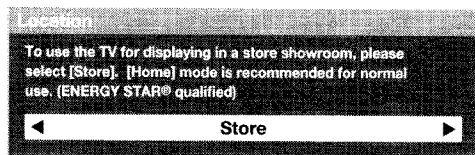
Note: The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.

Chapter 5: Setting up your TV

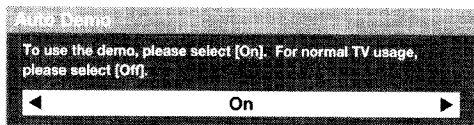
Initial Setup

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

- 1 In the **Menu Language** field, press ◀ or ▶ to select your preferred language.
- 2 Press ▲ or ▼ to select **Time Zone** and set your desired time zone with ◀ or ▶ and press **ENTER**.
- 3 Next, the **Location** setting window will appear. For normal home use, press ◀ or ▶ to select **Home** and press **ENTER**.



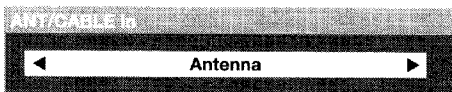
- 4 If **Store** is selected in step 3, the Auto Demo setting window will appear.



For normal TV usage, select **Off**.
To enable the on-screen demonstration, select **On**.

Note: The on-screen demonstration will automatically restart after 120 seconds of inactivity.

- To change the demo setting:
To change the **Auto Demo Selection** setting, press and hold **MENU** on the remote control or TV for 2 seconds while watching TV. When the setting window appears, continue to press **MENU** to cycle through the available demo settings.
- 5 Next, **ANT/CABLE In** setup window will appear. Press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT/CABLE** input on the TV.



- 6 If you select **Antenna**, the **Channel Tuning Mode** setup window will appear. To tune only digital channels, select **Digital**. To tune digital channels preferentially over analog when entering channel number directly, select **Auto**. For normal tuning, select **Standard**. Press **ENTER** to continue to Auto Tuning.

- 7 Press **ENTER** to select **Start Scan** and continue with the Auto Tuning.

You can stop the Initial Setup with **EXIT**. However if you do not finish the entire Initial Setup process, the Initial Setup window will appear every time you turn on the TV.

Quick Setup from the SETUP menu

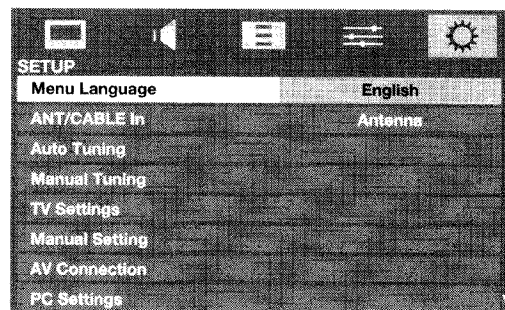
You can conveniently change various basic TV settings from the Quick Setup item located under the **SETUP** menu.

- 1 Press **MENU** to open the **SETUP** menu.
- 2 Press ▲ or ▼ to select **Quick Setup** and press **ENTER**.
- 3 A confirmation message will appear on the screen, press ◀ or ▶ to select **Yes** and press **ENTER**.
- 4 Other procedures are same as **Initial Setup** (left-hand column).

Selecting the menu language

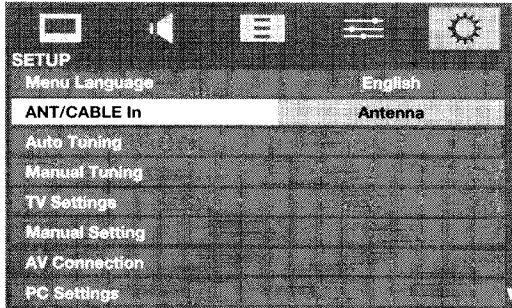
You can choose from three different languages (English, Français and Español) for the on-screen display of menus and messages.

- 1 From the **SETUP** menu, highlight **Menu Language**.
- 2 Press ◀ or ▶ to select your preferred menu language.



Configuring the antenna input source for the ANT/CABLE terminal

- 1 From the **SETUP** menu, highlight **ANT/CABLE In**.



- 2 Press **◀** or **▶** to select the input source (**Antenna** or **Cable**) for the **ANT/CABLE** input on the TV and press **EXIT**.

Programming channels into the TV's channel memory

When you press **CH** or **CH** on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory. Follow the steps below to program channels into the TV's channel memory.

Auto Tuning

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

Note:

- You must configure the **ANT/CABLE** input source before programming channels.
- If the **ANT/CABLE** input is configured for **Cable**, the automatic channel programming process erases channels that were previously programmed into the TV's memory.
- If the **ANT/CABLE** input is configured for **Antenna**, the automatic channel programming process adds newly found channels to the existing set of programmed channels (and does NOT erase channels that were previously programmed into the TV's memory.) To remove an Antenna source channel from the memory, you must set it to **Skip**.
- To tune the TV to a channel not programmed in the channel memory, you must use the **Channel Number** buttons on the remote control.

- Programming channels when the **ANT/CABLE** input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.

- 1 Configure the **ANT/CABLE** input, if you have not already done so (**EXIT** left-hand column).
- 2 From the **SETUP** menu, highlight **Auto Tuning**.
- 3 A screen will appear warning that previous programs and settings will be deleted.



- 4 Press **ENTER** to start Auto Tuning. The TV will automatically cycle through all the channels, and store all active channels in the channel memory. When Auto Tuning is finished, press **CH** or **CH** to view the programmed channels.

Manual Tuning

After automatically programming channels into the channel memory, you can manually enter channels if the physical channel is known.

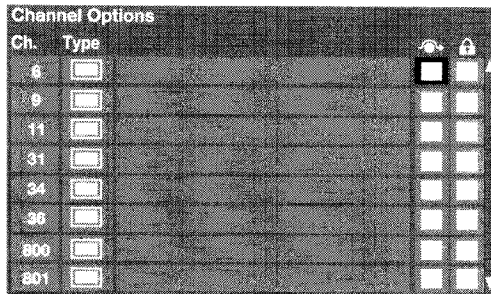
- 1 From the **SETUP** menu, highlight **Manual Tuning** and press **ENTER**.
- 2 Use the **Channel Numbers** on the remote control to enter the channel number (up to three-digit number) and press **ENTER**.

If channels are found, they will be listed at the bottom of the screen. Analog channels will be noted by an "ATV" symbol, digital channels by a "DTV" symbol.

Setting channel skip

To prevent certain channels from being viewed, channel positions can be skipped.

- 1 From the **SETUP** menu, highlight **TV Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Channel Options** and press **ENTER**. The list of channels will appear.



- 3 Press **▲** or **▼** to select a channel position to be skipped and press **ENTER**. A tick will appear in the box.
To remove the tick, press **ENTER** again.

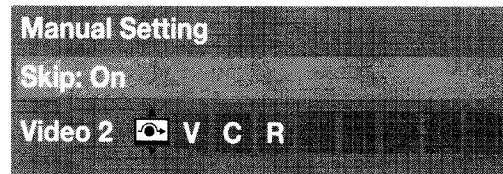
Note: Skipped channels cannot be selected with **CH▲** or **CH▼**, however they can still be accessed using the Channel Number on the remote control.

Setting video input skip

If you set a video input source to be skipped, it will be skipped over when selecting the input by repeatedly pressing **INPUT**.

To turn on the skip:

- 1 Tune to the video input source to be skipped.
- 2 From the **SETUP** menu, highlight **Manual Setting** and press **ENTER**. The setting window will appear.
- 3 Press **▲** or **▼** to select **↻** (skip) and press **EXIT**.



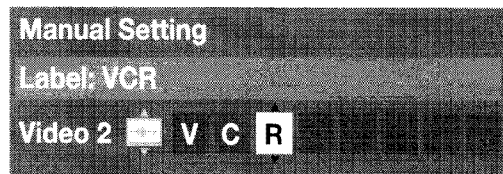
To turn off the skip:

- 1 Select the video input that is set to skip by **INPUT** or channel number entry.
- 2 From the **SETUP** menu, highlight **Manual Setting** and press **ENTER**. The setting window will appear.
- 3 Press **▲** or **▼** to select **↔** (skip off) and press **EXIT**.

Labeling video input sources

You can label video input sources.

- 1 Tune to the input you want to label.
- 2 From the **SETUP** menu, highlight **Manual Setting** and press **ENTER**. The setting window will appear.
- 3 Press **▶** to move from the skip selection in order to select a label, and press **▲** or **▼** to put in the desired characters and press **ENTER**.



- 4 Repeat steps 1 through 3 for other inputs.
- 5 To save your settings, press **ENTER**.

Note:

- Available characters are 0-9, A-Z, (,), *, +, -, and /.
- To label an HDMI input, you need to set **Enable REGZA-LINK** to **Off** (page 60).

Setting the Auto Input feature

This feature allows you to change TV inputs using the **MODE SELECT** buttons—**TV**, **CABLE/SAT**, **DVD**, **VCR/PVR**—on the remote control. Once an input has been set for a specific **MODE SELECT** button, the TV will automatically switch to the input when you press and hold the **MODE SELECT** button for 2 seconds.

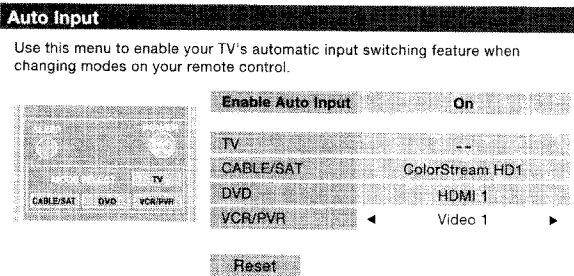
Auto Input settings options for each **MODE SELECT** button are shown below.

- **TV:** ANT/CABLE
- **CABLE/SAT:** ANT/CABLE, Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC
- **DVD:** Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC
- **VCR/PVR:** ANT/CABLE, Video 1, Video 2, ColorStream HD1, ColorStream HD2, 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 From the **PREFERENCES** menu, highlight **Auto Input** and press **ENTER**.
- 2 Set **Enable Auto Input** to **On**.



- 3 Press **▲** or **▼** to select the mode field you want to set.
- 4 Press **◀** or **▶** to select the desired input source for that mode.
- 5 Repeat steps 3 and 4 for other modes.

To turn off Auto Input:

Select **Off** in step 2.

Note: Setting the feature to **Off** will not cancel any settings; however, all items will be grayed out.

To reset Auto Input:

Highlight **Reset** and press **ENTER**.

Setting the time zone

The Time Zone setup will allow you to specify the correct time zone for your region. This feature will allow the TV status information to show the correct time zone information for your viewing area.

- 1 From the **SETUP** menu, highlight **TV Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Local Time Setting** and press **ENTER**.
- 3 Highlight **Time Zone** and press **◀** or **▶** to set your desired time zone.
- 4 If you want to activate the daylight saving time, highlight **Daylight Saving Time**.
- 5 Press **◀** or **▶** to select **On** and press **EXIT**.

Selecting the location

You can select Home or Store for the TV location. For normal home use, select Home.

- 1 From the **SETUP** menu, highlight **Location**.
- 2 Press **◀** or **▶** to select **Home** and press **EXIT**.

Selecting the TOSHIBA Illumination mode

You can set the illumination mode of the TOSHIBA logo located on the front panel to On or Off.

- 1 From the **PREFERENCES** menu, highlight **TOSHIBA Illumination**.
- 2 Press **◀** or **▶** to select either **On** or **Off**, then press **EXIT**.

Selecting the Power-On Mode

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

- **Power-Saving** mode keeps power consumption in standby mode to below 1W. As a result, it takes a bit longer for the TV to turn on.
- **Fast** mode increases power consumption in standby mode. As a result, the TV will turn on more quickly.

- 1 From the **SETUP** menu, highlight **Power-On Mode**.
- 2 Press ◀ or ▶ to select either **Power-Saving** or **Fast**, then press **EXIT**.
Select **Power-Saving** for optimal energy efficiency.

Using Blue Screen

With the Blue Screen feature, the screen will turn blue and the sound will be muted on analog channels and external input modes when no signal is received.

- 1 From the **PREFERENCES** menu, highlight **Blue Screen**.
- 2 Press ◀ or ▶ to select **On**, and press **EXIT**.

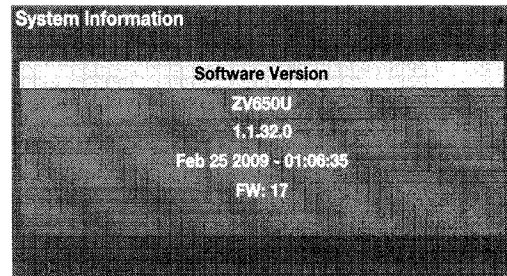
Setting the screen transparency

You can set the transparency of the on-screen display system.

- 1 From the **PREFERENCES** menu, highlight **Transparency**.
- 2 Press ◀ or ▶ to select **Low**, **Middle**, **High** or **Off**, and press **EXIT**.

Viewing the system status

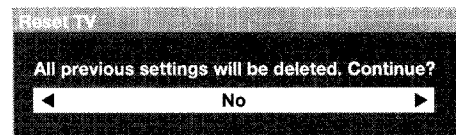
- 1 From the **SETUP** menu, highlight **System Information**.
- 2 Press **ENTER** to display the system information.



Reset Factory Defaults

You can reset all settings and channels to their factory default values.

- 1 From the **SETUP** menu, highlight **Reset TV** and press **ENTER**.
- 2 Enter your PIN code (if PIN code has been set).
- 3 Press ◀ or ▶ to select **Yes** and press **ENTER**. The TV will turn off automatically.



To cancel the reset:

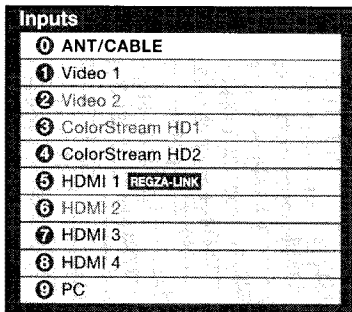
Press ◀ or ▶ to select **No** and press **ENTER**.

Chapter 6: Using the TV's features

Selecting the video input source to view

To select the video input source to view:

- 1 Press **INPUT** on the remote control or TV control panel.
- 2 And then either:
 - a) Press 0–9;
 - b) Repeatedly press **▲** or **▼** on the remote control and then press **ENTER** to change the input; or
 - c) Repeatedly press **INPUT** on the remote control or TV control panel to change the input.



Note:

- You can label the video input sources according to the specific devices you have connected to the TV (see "Labeling input sources" on page 38).
- Sources can also be skipped (see "Setting video input skip" on page 38).
- Inputs that are set to skip will be grayed out and will be skipped over only when selecting inputs by repeatedly pressing **INPUT**.
- If one or more REGZA-LINK devices are connected to an HDMI input, the REGZA-LINK icon will appear in the input selector.
- When the Auto Input feature is set, you can also select a video input source by pressing and holding the corresponding **MODE SELECT** button for 2 seconds (see page 39).

To select a REGZA-LINK device:

- 1 Press **▲** or **▼** to highlight an appropriate HDMI input.
- 2 Press **▶** to display the list of REGZA-LINK devices for that input.
- 3 If there are multiple REGZA-LINK devices on the input, use **▲** or **▼** to highlight a particular device.
- 4 Press **ENTER** to select the device and change input.

Tuning channels

Tuning channels using the Channel Browser™

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

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

Favorites Browser

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

To add a favorite channel/input:

- 1 Tune to the channel or input.
- 2 Press and hold **CH BROWSER** on the remote control for 3 seconds.

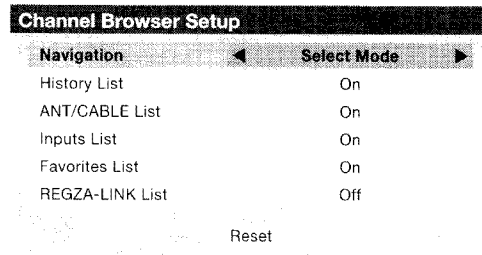
Note: Additions are added to the beginning of the Favorites list on the left side of the Channel Browser™.

To delete a favorite channel/input:

- 1 Press **CH BROWSER** to open the Favorites browser list.
- 2 Highlight the channel or input to delete by pressing **BACK** or **NEXT**.
- 3 Press and hold **100** for 3 seconds. The channel/input will be removed from the Favorites list.

To set up the Channel Browser™:

- 1 From the **PREFERENCES** menu, highlight **Channel Browser Setup** and press **ENTER**.
- 2 Press **▼** or **▲** to highlight **Navigation**, and then press **◀** or **▶** to select either **Select Mode** or **Browser Mode**.



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

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

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

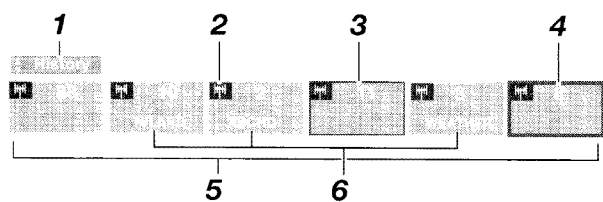
Note: **REGZA-LINK List** will be automatically grayed out and set to **Off** when **Enable REGZA-LINK** is switched to **Off**. (see page 60)

- 8 To return to factory defaults, highlight **Reset** and press **ENTER**.

To open the Channel Browser™:

- Press **BACK** or **NEXT** on the remote control.
- Press **BACK** or **NEXT** to surf backward or forward through the tuned 32 channels in the History list, the channels in the ANT/CABLE channel list, the inputs in the Inputs list, the REGZA-LINK devices in the REGZA-LINK list, or the favorite channels/inputs in the Favorites list.

Elements of the Channel Browser™



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

To toggle among the available lists:

After opening the Channel Browser™, press ▲ or ▼ to toggle among **History**, **ANT/CABLE**, **Inputs**, **Favorites**, and **REGZA-LINK**.

Note:

- The Channel Browser™ opens in **History List** by default. Once another list has been selected, the Channel Browser™ will open in the last selected list.
- If all lists are turned off, pressing **BACK** ◀ or **NEXT** ▶, or **CH BROWSER** will not display the Channel Browser™. If **Favorites List** is turned off, **CH BROWSER** will have no effect.
- Pressing **CH BROWSER** will bring up the Channel Browser™ Favorites list regardless of the last selected list in the Channel Browser™.

To tune to a channel or input in Browse mode:

- 1 While watching TV, press **BACK** ◀ or **NEXT** ▶ to open the Channel Browser™ and surf back to a previous item or surf forward to the next item in the list. In **Browse** mode, when you stop on an item in the Channel Browser™, it will be highlighted and the TV will automatically tune to the channel or input.
- 2 Press **EXIT** to close the Channel Browser™.

To tune to a channel or input in Select mode:

- 1 While watching TV, press **BACK** ◀ or **NEXT** ▶ to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list. In **Select** mode, when you stop on an item in the Channel Browser™, it will be highlighted but you must press **ENTER** to tune the TV to the highlighted item.
- 2 Press **ENTER** to tune the TV to the highlighted item.
- 3 Press **EXIT** to close the Channel Browser™.

Adding and clearing channels and inputs in the History List

Adding channels and inputs to the History List:

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

The Channel Browser™ will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned for at least 5 seconds using **CH** or **MEMO** on the remote control.

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

Clearing channels from the History List:

- Reconfiguring the **ANT/CABLE** input will clear the History List.

Note: See page 37 for details on configuring the antenna input.



- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- Turning off the TV will clear the History List.

Setting the Channel Tuning Mode







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

Note: To use this feature, the **ANT/CABLE In** must be set to **Antenna** (see page 37).

The channel tuning mode has three options.

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



To set the Channel Tuning Mode:

- 1 From the **SETUP** menu, highlight **TV Settings** and press .
- 2 Press  or  to highlight **Channel Tuning Mode**.
- 3 Press  or  to select your desired mode and then press .

Note: The Channel Options window as well as the Channel Browser ANT/CABLE List will be updated automatically when you change the mode. Also, the History List will be cleared, but the Favorites List will be saved.

Tuning to the next programmed channel


To tune to the next programmed channel:

Press  or  on the remote control or TV control panel.



Note: This feature will not work unless you program channels into the TV's channel memory (see page 37).

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:




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

Tuning digital channels:

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

Switching between two channels using Channel Return

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

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

Note: If you press  from a non-antenna input, the TV will return to the last-viewed input.

Switching between two channels using SurfLock™

The SurfLock™ feature temporarily “memorizes” one channel to the **CH RTN** button, so you can return to that channel quickly from any other channel by pressing **CH RTN**. To memorize a channel to the **CH RTN** button:

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

The TV will return to the memorized channel one time only. Once you press **CH RTN** and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned. This feature also works for external inputs.

Selecting the picture size

You can view many program formats in a variety of picture sizes—**Native**, **4:3**, **Full**, **TheaterWide 1**, **TheaterWide 2**, **TheaterWide 3**, **Normal** and **Dot by Dot**.

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

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

To select the picture size using the remote control:

- 1 Press **PIC SIZE** on the remote control.
- 2 While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
 - Repeatedly press **PIC SIZE**.
 - Press the corresponding Number button while the **Picture Size** screen is open.
 - Press **▲** or **▼** and **ENTER** while the **Picture Size** screen is open.

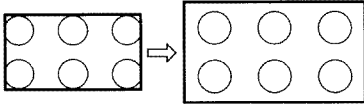
Note: Some of the picture sizes may not be available depending on the receiving signal format.

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

Note: If you select one of the TheaterWide® picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either adjust the **Picture Position** or try viewing the program in **4:3** or **Full** picture size.

Picture Size

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

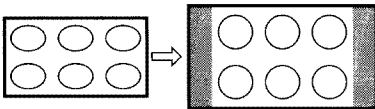
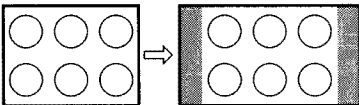


- If receiving a 1080i, 1080p, 720p, 480i (HDMI), or 480p (HDMI) signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).
- This is especially useful for external HD sources such as DVHS movies or PC graphics.
- None of the picture is hidden.

Note:

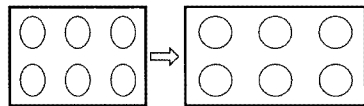
- This mode is supported only for HDMI (1080i, 1080p, 720p, 480i, and 480p), ColorStream® (1080i and 720p), and ANT/CABLE (digital) inputs (1080i, 1080p, and 720p).
- Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.

4:3



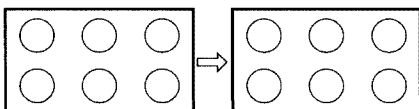
Some program formats will display with sidebars and/or bars at the top and bottom.

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



If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen but not stretched taller.

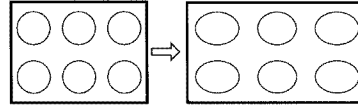
(for 1080i, 1080p, and 720P program sources)



The edges surrounding the picture may be hidden.

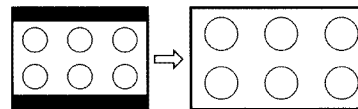
Picture Size

TheaterWide 1
(for 4:3 format programs)



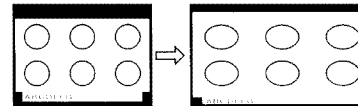
The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.

TheaterWide 2
(for letter box programs)



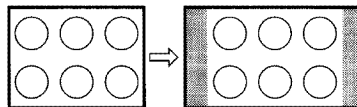
The top and bottom edges of the picture may be hidden*.

TheaterWide 3
(for letter box programs with subtitles)



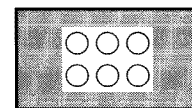
The top and bottom edges are hidden*.

Normal
(for VGA, SVGA, XGA, WXGA, and SXGA sources only)



"Normal" is a non-stretched display. Some input signal formats will display with sidebars and/or bars at the top and bottom.

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



"Dot by Dot" is a non-scaling display. Depending on the input signal format, the picture is displayed with sidebars and/or bars at the top and bottom. (Example: VGA input source)

* To view the hidden areas (such as subtitles or captions), see "Scrolling the Picture" (page 48).

Scrolling the picture

If the edges of the picture are cut off, you can adjust the position image.

Note: You can adjust the picture position when the picture size is set to **TheaterWide 2** or **TheaterWide 3**.

- 1 From the **SETUP** menu, highlight **Picture Position**.
- 2 Press **▲** or **▼** to select **Vertical Position**.
- 3 Press **◀** or **▶** to make the appropriate adjustments. The adjustment range is from **-5** to **+10**.

Note: This feature is not available on digital channels.

Using the Auto Aspect Ratio feature

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

- A 480i, 480p, 720p, 1080i digital signal from the **ANT/CABLE** input
- A 480i signal from the **Video 1** or **Video 2** input
- A 480i signal from the **ColorStream HD1** or **HD2** input
- A 480i, 480p, 720p, 1080i, 1080p, or VGA (60/72/75Hz) signal from the **HDMI 1/2/3/4** input

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

- 1 From the **PREFERENCES** menu, highlight **Auto Aspect**.
- 2 Press **◀** or **▶** to select **On**, and then press **EXIT**.

Using the 4:3 Stretch

When 4:3 Stretch is activated, the size switching system changes 4:3 programs into full screen picture.

- 1 From the **PREFERENCES** menu, highlight **4:3 Stretch**.
- 2 Press **◀** or **▶** to select **On**, and then press **EXIT**.

Note: When **Auto Aspect** is set to **Off**, this feature will be grayed out.

Using the FREEZE feature

- 1 When viewing the TV, press **FREEZE** to make the picture a still picture.
- 2 To return to the moving picture, press **FREEZE** again.

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

Using the **FREEZE** function for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Adjusting the picture

Selecting the picture mode

You can select your desired picture settings from the following modes, as described below.

Mode	Picture Quality
AutoView™	Automatically adjusts picture settings based on ambient light conditions and input signal content
Sports	Bright and dynamic picture
Standard	Standard picture settings
Movie	Lower contrast for darkened room
Game	Designed for playing a video game requiring split-second timing between the on-screen display and input from the controller
PC	Designed for viewing of PC tables and documents

Note:

- Because the **AutoView** mode automatically adjusts picture settings based on ambient light conditions and input signal content, some menus will be grayed out when it is selected.
- **PC** mode is available for HDMI and PC inputs only (not displayed for other input sources).
- **Game** mode cannot be turned on when the **ANT/CABLE** input is selected.

- 1 From the **PICTURE** menu, highlight **Picture Mode**.
- 2 Press ◀ or ▶ to select the picture mode you prefer and press **ENTER**.

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

Adjusting the picture quality

The picture quality you adjusted under a certain picture mode is saved to the picture mode of same name.

Selection	Pressing ◀	Pressing ▶
Backlight*	darker	lighter
Contrast	lower	higher
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

* Backlight

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

Note: Some menus cannot be adjusted when the picture mode is set to **AutoView**.

To adjust the picture quality:

- 1 From the **PICTURE** menu, highlight picture quality you want to adjust (**Backlight, Contrast, Brightness, Color, Tint, or Sharpness**).
- 2 Once you select the desired item, press ◀ or ▶ to adjust the setting, as described in the table above and then press **EXIT**.

Note: The picture quality you adjusted affects the current input only. You can adjust the picture quality for each input and source for photo viewing.

To revert to the factory defaults:

- 1 Select the picture mode you want to reset.
- 2 From the **PICTURE** menu, highlight **Reset** and press **ENTER**.
- 3 A confirmation message will appear. Press ◀ or ▶ to select **Yes**, and then press **ENTER**.

Using the TheaterLock™ feature

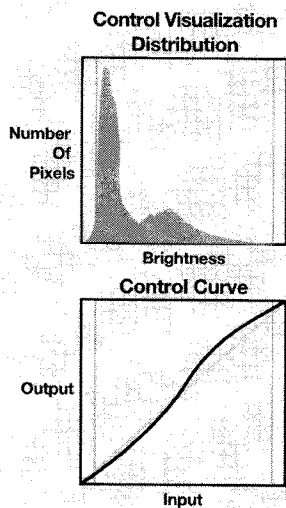
The TheaterLock™ feature allows you to “lock” items in the PICTURE menu that affect the picture display. These items will be grayed out and unavailable when the TheaterLock setting is set to “On”.

- 1 From the **PICTURE** menu, highlight **TheaterLock**.
- 2 Press ◀ or ▶ to select **On**, and then press **ENTER**.

Viewing the Control Visualization window

This feature displays a histogram and control curve illustrating the brightness of the TV.

- 1 From the **PICTURE** menu, highlight **Control Visualization** and press **ENTER**. The histogram window will appear.



- 2 Press **CHRTN** to close the window and go back to menu. If no key is pressed within 10 minutes, it closes automatically.

Using the closed caption mode

Analog CC Mode

The closed caption mode has two options:

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

To turn on the closed caption mode:

- 1 From the **SETUP** menu, highlight **TV Settings** and press **ENTER**.
- 2 Press ▼ or ▲ to select **Closed Captions Settings** and press **ENTER**.
- 3 Press ▼ or ▲ to select **Closed Captions** and press ◀ or ▶ to select **On**.

To view captions or text:

From the **Closed Captions Settings** menu, highlight the **Analog CC Mode**.

• To view captions:

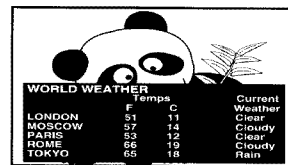
Press ◀ or ▶ to highlight **CC1**, **CC2**, **CC3**, or **CC4**.



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

• To view text:

Press ◀ or ▶ to highlight **T1**, **T2**, **T3**, or **T4**.



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

Note: A closed caption signal may not display in the following situations:

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

Digital CC Settings

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

Note:

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

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

To customize the closed captions:

- 1 From the **SETUP** menu, highlight **TV Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Closed Captions Settings** and press **ENTER**.
- 3 Then highlight **Digital CC Settings** and press **ENTER**.
- 4 Press **▲** or **▼** to highlight the characteristic you want to change, and then press **◀** or **▶** to select the format for that characteristic (see table above).

CC Selector

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

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

To select closed captions:

- 1 From the **PREFERENCES** menu, highlight **CC and Digital Audio Selectors** and press **ENTER**.
- 2 Press **▲** or **▼** to highlight **Closed Caption**, and then press **◀** or **▶** to select the desired service, then press **EXIT**.

Using the Closed Caption button on the remote control

If you press **CC when an analog channel is tuned:**

- The CC selector will be active and will display CC1-4 and T1-4 as the options.
- The audio selector will be disabled.

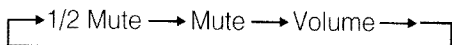
If you press **CC when a digital channel is tuned:**

- The CC selector will be active and will display the possible caption options (available languages) for that channel or service. For example, in addition to English, a channel might offer closed captions in Spanish and/or French.
- The audio selector will be active and will offer different audio choices for the digital channel (Dolby or AC3, for example).

Adjusting the audio

Muting the sound

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



If the closed caption mode is set to **Off** when you select "MUTE" mode, the closed caption feature is automatically activated if the TV program is Closed Captioned. To mute the audio without automatically activating the closed caption feature, use **[VOL-]** to set the volume to 0. See "Using the closed caption mode" (page 50) for more information on closed caption modes.

Note: If you modify items in the **SOUND** menu while mute is active, the mute will automatically be cancelled to allow for proper adjustment.

Using the digital audio selector

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

To use the digital audio selector:

- 1 From the **PREFERENCES** menu, highlight **CC and Digital Audio Selectors** and press **[ENTER]**.
- 2 Press **▲** or **▼** to select **Digital Audio**.
- 3 Press **◀** or **▶** to select the desired service, then press **[EXIT]**.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations). When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when **[RECALL]** is pressed. The MTS feature is only available for analog signals on the **ANT/CABLE** input.

To listen a stereo sound:

- 1 From the **SOUND** menu, highlight **MTS**.
- 2 Press **◀** or **▶** to select **Stereo** and press **[EXIT]**.

Note:

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

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

Select **SAP** in step 2.

Note:

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

Adjusting the audio quality

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

- 1 From the **SOUND** menu, highlight the item you want to adjust (**Bass**, **Treble**, or **Balance**).
- 2 Press **◀** or **▶** to adjust the level of desire item, and then press **[EXIT]**.
 - **◀** makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).
 - **▶** makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).

Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **DIGITAL AUDIO OUT** terminal on the TV.

- 1 Tune to a digital source on the **ANT/CABLE** input.
- 2 From the **SETUP** menu, highlight **AV Connection** and press **ENTER**.
- 3 Press **▲** or **▼** to select **Digital Audio Output**.
- 4 Press **◀** or **▶** to select **Auto** or **PCM**, then press **EXIT**.

Auto: this mode outputs Dolby Digital or PCM to the digital audio output socket providing it is being broadcast.

PCM: this mode outputs PCM format to the digital audio output socket.

Note: Auto mode outputs PCM only while playing DivX files.

Using the Dolby® Digital Dynamic Range Control feature

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

- 1 From the **SOUND** menu, highlight **Dynamic Range Control**.
- 2 Press **◀** or **▶** to select **On**.

Note:

- This feature is only available on Digital Channels.
- This feature is not available when Dolby Volume is set to **Low** or **High**.
- This feature will function in relation to the Optical Output Format (PCM mode).

Using Dolby® Volume

This feature provides a consistent sound volume regardless of programs, channels or input sources.

- 1 From the **SOUND** menu, highlight the **Dolby Volume**.
- 2 Press **◀** or **▶** to select **Low**, **High** or **Off**.

Note:

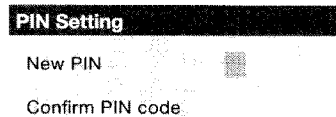
- If Dynamic Range Control is set to **On**, this feature will be grayed out.
- This feature is not effective for the audio signal output from **DIGITAL AUDIO OUT** and **FIXED AUDIO** terminal.

Setting the PIN code

A PIN code is necessary for some menus.

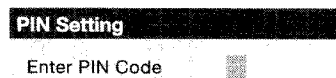
Registering a new PIN code

- 1 From the **PREFERENCES** menu, highlight **PIN Setting** and press **ENTER**. A new screen will display.
- 2 Press number buttons to enter a four-digit number. Reenter the PIN code to confirm it.



Changing or deleting your PIN code

- 1 From the **PREFERENCES** menu, highlight **PIN Setting** and press **ENTER**. A new screen will display.
- 2 Press number buttons to enter your four-digit PIN code.



- Change PIN
Highlight **Change PIN** and press **ENTER**.
- Delete PIN
Highlight **Delete PIN** and press **ENTER**.
If you delete the PIN code, the settings of **Parental Control and Locks** are reset.

If you cannot remember your PIN code

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

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

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

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

To block and unblock TV programs and movies:

- 1 From the **PREFERENCES** menu, highlight **Parental Control and Locks** and press **ENTER**.
- 2 Enter your four-digit PIN code.
- 3 Press **▲** or **▼** to highlight **Enable Rating Blocking**.
- 4 Press **◀** or **▶** to select **On**.
- 5 Press **▼** to highlight **Edit Rating Limits** and press **ENTER**.
The **Edit Rating Limits** screen appears.
- 6 Press **▲**, **▼**, **◀** or **▶** and then press **ENTER** to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.

Downloading an additional rating system for blocking TV programs and movies

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

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

To download the additional rating system (if available):

- 1 From the **PREFERENCES** menu, highlight **Parental Control and Locks** and press **ENTER**.
- 2 Enter your four-digit PIN code. **Parental Control and Locks** window is displayed.
- 3 Press **▲** or **▼** to highlight **Enable Rating Blocking**.
- 4 Press **◀** or **▶** to select **On**.
- 5 Press **▼** to highlight **Edit Rating Limits** and press **ENTER**.
The **Edit Rating Limits** screen appears.
- 6 Highlight **Alt RS** and press **ENTER**. The **Edit Alternate Ratings** screen will appear.
Note:
 - The **Alt RS** button will only be available if an additional rating system is currently available.
 - It may take several minutes for the TV to download the additional rating system.
 - The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.
- 7 Press **▲▼◀▶** and then press **ENTER** to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked.

Note:

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

Unlocking programs

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

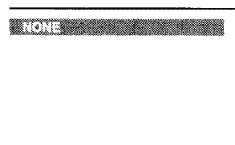
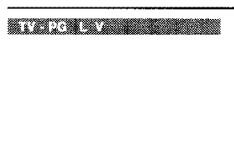
You can either unlock the program or tune to an unlocked program to watch.

Independent rating system for broadcasters	
Ratings	Description and Content themes
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language 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
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	
Ratings	Description and Content themes
X	X-rated (For adults only)
NC-17	Not intended for anyone 17 and under
R	Restricted (Under 17 requires accompanying parent or adult)
PG-13	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
PG	Parental Guidance Suggested (Some material may not be suitable for children)
G	General Audience (Appropriate for all ages)

Note:

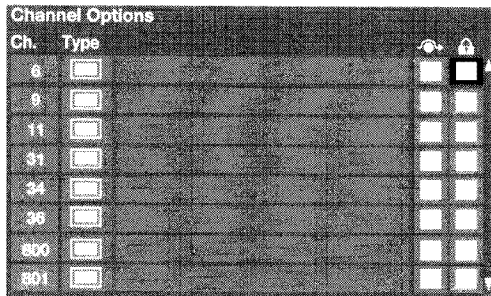
- If you place an "X" in the box next to "None," programs rated "None" or "Not Rated" will be blocked; however, programs that do not provide any rating information will not be blocked.
- To display the rating of the program you are watching, press **RECALL** on the remote control. If it is rated "None,"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



Locking channels

With the Lock feature, you can lock specific channels. The locked channels can only be accessed by entering the PIN.

- 1 From the **SETUP** menu, highlight **TV Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Channel Options** and press **ENTER**. The list of channels will appear.



- 3 Press **▶** and then **▲** or **▼** to select a channel in the lock column.
- 4 PIN code entry will be required to set locked channel.
Note: If the PIN code has not been set yet, a warning message will appear.
- 5 A tick will appear in the box. To remove the tick, press **ENTER** again.

Using the input lock feature

You can use the Input Lock feature to lock the video inputs (**Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4** and **PC**) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

- 1 From the **PREFERENCES** menu, highlight **Parental Control and Locks** and press **ENTER**.
- 2 Enter your four-digit PIN code.
- 3 Press **▲** or **▼** to select **Input Lock**.
- 4 Press **◀** or **▶** to select **Video, Video+** or **Off**.

Mode	Description
Video	Locks Video 1, Video 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4, and PC.
Video+	Locks Video 1, Video 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC and channels 3 and 4. • Select Video+ if you play video tapes via an ANT/CABLE input.
Off	Unlocks all video inputs and channels 3 and 4.

Using the GameTimer®

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

- 1 From the **PREFERENCES** menu, highlight **Parental Control and Locks** and press **ENTER**.
- 2 Enter your four-digit PIN code.
- 3 Press **▼** or **▲** to select **GameTimer**, and then press **◀** or **▶** to select **30, 60, 90, or 120** minutes.

To cancel the GameTimer®:
Select **Off** in step 3 above.

To deactivate the Input Lock once the GameTimer has activated it:
Set the **Input Lock** to **Off** (ⓘ “Using the input lock feature” as described above).

Note:

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

Using the panel lock feature

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

- 1 From the **PREFERENCES** menu, highlight **Parental Control and Locks** and press **ENTER**.
- 2 Enter your four-digit PIN code.
- 3 Press **▲** or **▼** to select **Panel Lock**, and then press **◀** or **▶** to select **On**.
When **Panel Lock** is set to **On**, a reminder will appear when the buttons on the TV control panel are pressed. If the **POWER** button is pressed the TV will switch off and can only be brought out of standby by using the remote control.

To unlock the control panel:
Select **Off** in step 3 above.

Using the PC settings feature

You can view an image from a PC on the TV screen. When a PC is connected to the TV's PC IN terminal, you can use the PC Settings feature to make adjustments to the image.

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

- 1 Select PC input mode (see "Selecting the video input source to view" on page 41).
- 2 From the **SETUP** menu, highlight **PC Settings** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight the item you want to adjust.
- 4 Press **◀** or **▶** to make an appropriate adjustments.

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

Mode	Description
Horizontal Position	Moves the picture left/right. The adjustment range is within ± 10 from center.*
Vertical Position	Moves the picture up/down. The adjustment range is within ± 10 from center.*
Clock Phase	Helps to reduce noise and sharpen the picture. The adjustment range is within ± 32 from center.
Sampling Clock	Helps to reduce noise and minimize periodic vertical stripes on the screen. The adjustment range is within ± 5 from center.

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

Setting the PC Audio

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

- 1 From the **SETUP** menu, highlight **AV Connection** and press **ENTER**.
- 2 Press **▲** or **▼** to select **PC/HDMI 1 Audio**.
- 3 Press **◀** or **▶** to select **PC**.

Note: Setting PC/HDMI 1 to **PC** will force HDMI 1 Audio to **Digital** mode.

Setting the On Timer

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

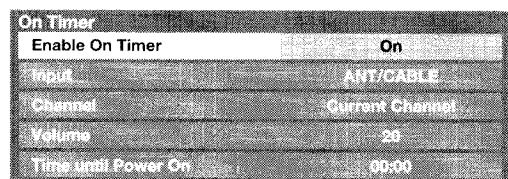
To activate the On Timer:

- 1 From the **APPLICATIONS** menu, highlight **On Timer** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Enable On Timer**, and then press **◀** or **▶** to select **On**.

Note: If the Enable On Timer is set to **Off**, other menus under On Timer cannot be selected.

To set the On Timer:

- 1 From the **APPLICATIONS** menu, highlight **On Timer** and press **ENTER**.



Input: To select video input source (ANT/CABLE, Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC)

Channel: To select the channel when the TV turns on.

Note: When an external input is selected in the Input menu, this feature cannot be selected.

Volume: To set the volume when the TV turns on.

Time until Power On: To set the time when the TV turns on from now with **◀** or **▶** or the number buttons (maximum of 12 hours and 50 minutes).

Note:

- While the **On Timer** is set to **On**, the On Timer LED is turned on (see "LED indications" on page 73).
- If you do not operate the TV for 1 hour after it is powered on by the On Timer feature, the TV will automatically turn itself off.

To cancel the On Timer:

- 1 From the **APPLICATIONS** menu, highlight **On Timer** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Enable On Timer**.
- 3 Press **◀** or **▶** to select **Off**.

Setting the Sleep Timer

You can set the sleep timer to turn off the TV after a set length of time (maximum of 12 hours and 50 minutes).

To set the sleep timer using the remote control:

Press **SLEEP** on the remote control to set the length of time until the TV turns off. Repeatedly press **SLEEP** to increase the time in 10-minute increments, or press **▲** or **▼** to increase or decrease the time in 10-minute increments, to a maximum of 12 hours and 50 minutes.

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

- 1 From the **APPLICATIONS** menu, highlight **Sleep Timer** and press **ENTER**.
- 2 Press the number buttons to enter the length of time or press **◀** or **▶** to increase or decrease in 10-minute increments (maximum of 12 hours and 50 minutes).

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

To display the remaining sleep time:

Press **SLEEP**.

To cancel the sleep timer:

Repeatedly press **SLEEP** until it is set to 0 minutes.

Using REGZA-LINK®

This feature uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the TV remote via HDMI connection (see page 17).

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

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

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

Available remote control key functions:

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

Button	Description
	Begins playback.
	Stops playback.
	Pauses the picture during play or record mode.
	Skips forward.
	Skips backward.
	Fast-forwards.
	Rewinds/reverses.
	Navigates contents menu, etc.
	Enters contents menu, etc.
	Returns to the previous menu.
	Closes the menu.

Note: These functions depend on the devices connected.

REGZA-LINK Player Control menu functions:

- 1 Press and open the **THINC Applications** menu.
- 2 Highlight **REGZA-LINK Player Control** and press .
- 3 Press or to select the item you want to control and press .

Item	Description
Power	Turns the select device on and off.
Root Menu	Access the top menu of the select device.
Contents Menu	Accesses the contents list when you press . At this time, the REGZA-LINK Player Control menu will disappear.
Setup Menu	Access the setup menu of a DVD player.
Top Menu	Accesses the top menu of a DVD during playback.
Menu	Accesses the menu of a DVD during playback.

Note:



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

REGZA-LINK® input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. Amplifier) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device using on the remote control or the TV control panel (see page 41).

Amplifier VOLUME and MUTE controls

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

-  adjust the volume level.
-  turns off the sound.

Note:

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






Other REGZA-LINK® functions





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

Item	Description
TV Auto Power On	If a REGZA-LINK device is turned on, the TV turns on automatically.
Auto Standby	If the TV is turned off, the TV will send a message to turn off all of the REGZA-LINK devices connected to the TV.
Amplifier Control	If Amplifier Control is set to On , you can adjust the sound volume or turn off the sound using the remote control.
Speaker Preference	From 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 be grayed out unless a REGZA-LINK compatible audio receiver is connected and set to TV speakers automatically.

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.

To set the REGZA-LINK Setup:

- 1 From the **PREFERENCES** menu, highlight **REGZA-LINK Setup** and press .
- 2 Press  or  to highlight **Enable REGZA-LINK**.
- 3 Press  or  to select **On**.

Note: If you set **Enable REGZA-LINK** to **Off**, the other items under REGZA-LINK Setup will be grayed out.
- 4 Press  or  to highlight the **REGZA-LINK** setup item you want to use, and press  or  to select **On** or desired mode.
 - TV Auto Power: On/Off
 - Auto Standby: On/Off
 - Amplifier Control: On/Off
 - Speaker Preference: TV Speakers/ Amplifier

REGZA-LINK® PC Link

This feature automatically sets suitable widescreen formats and picture preferences when the TV is connected to a REGZA-LINK PC.

Note: This feature depends on the type of equipment connected.

Using the HDMI settings feature

This menu consists of the following items (new HDMI capabilities) and will be grayed out on non-HDMI inputs.

Some HDMI legacy sources may not work properly with your HDMI TV, please try setting the following options (Deep Color, Lip Sync, INSTAPORT™, and RGB Range) to **Off**. Adjusting these settings should allow your HDMI legacy source to operate properly with your TV.

- **Deep Color: On**
This feature allows the HDMI source to increase available colors bits within the boundaries defined by the RGB or YCbCr color space.
- **Lip Sync: On**
The Lip Sync feature allows an HDMI source such as an audio receiver to adjust audio delay to match the video processing delay of the TV.
- **INSTAPORT™: On**
This feature reduces the lag of switching time when switching HDMI sources.
- **RGB Range: Auto**
This feature adjusts RGB full range signal automatically
When Limit is selected, RGB output signal is output in the range from 16 to 235. When Full is selected, RGB output signal is output in the range from 0 to 255.

All of the above HDMI settings need proper HDMI source devices. If an HDMI source device does not support these features, the TV may not work properly when these features are enabled.

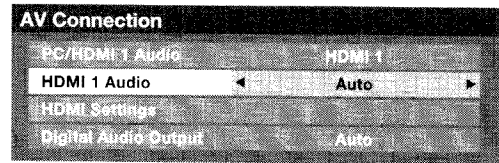
Note: If your HDMI connection is capable of 1080p and/or your TV is capable of refresh rates greater than 60Hz or supports Deep Color, you will need a High Speed HDMI™ cable. Conventional HDMI/DVI cables may not work properly with this mode.

- 1 Select the appropriate HDMI input mode (HDMI 1, HDMI 2, HDMI 3, or HDMI 4).
- 2 From the **SETUP** menu, highlight **AV Connection** and press **ENTER**.
- 3 Press **▲** or **▼** to select **HDMI Settings**.
- 4 Press **▲** or **▼** to highlight the item you want to set.
- 5 Press **◀** or **▶** to select your desired setting.

Setting the HDMI audio mode

To set the HDMI audio mode:

- 1 From the **SETUP** menu, highlight **AV Connection** and press **ENTER**.
- 2 First press **▲** or **▼** to select **PC/HDMI 1 Audio**.
- 3 Press **◀** or **▶** to select **HDMI 1** to make enable the HDMI 1 Audio.
- 4 Continue to press **▲** or **▼** to select **HDMI 1 Audio**.
- 5 Finally press **◀** or **▶** to select **Auto, Digital** or **Analog**. (**Auto** is the recommended mode.)



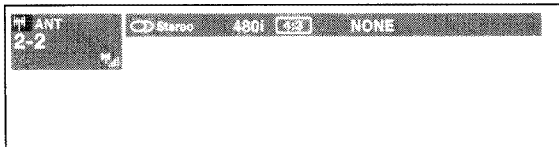
Mode	Description
Auto	When viewing the HDMI 1 input, if digital audio from the HDMI input is available, it will be output. If not, the TV will automatically detect and output analog audio from the PC/HDMI 1 Audio input.
Digital	When viewing the HDMI 1 input, digital audio from the HDMI input will be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

Displaying TV status information

To display TV status information using **RECALL**: Press **RECALL** on the remote control.

The following information will display (if applicable):

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



To close the **RECALL** screen:

Press **RECALL** again.

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

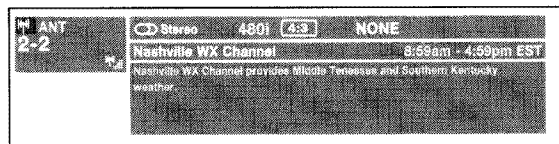
(only available for **ANT/CABLE** input)

Press **INFO** on the remote control.

The following additional information will display for off air digital channels (if applicable):

- Title
- Duration
- Detailed description

To display Next information, press **INFO** on the remote control again. Pressing **INFO** a third time will remove the entire banner.



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

Understanding the auto power off feature

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

Understanding the last mode memory feature

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

Note: If it is possible that you will be away from the TV for an extended period of time, you should unplug the power cord.

Chapter 7: Using the TV's advanced features

Using the advanced picture settings features

Note: Some of the Advanced Picture Settings features will not be available for adjustment when the Picture Mode is set to **AutoView**.

Using Resolution+™

The Resolution+™ feature allows you to adjust the levels for your desired picture settings.

To set Resolution+:

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to highlight **Resolution+**, and press **ENTER**.
- 3 Press **◀** or **▶** to select **On**.
- 4 Press **▲** or **▼** to highlight the **Level**, and then press **◀** or **▶** to select either **1**, **2**, **3**, **4**, or **5** and press **ENTER**.

Note:

- If the Picture Mode is set to **AutoView**, the level range is from -2 to +2.
- If the Picture Mode is set to **Game** or **PC**, this feature will be grayed out.
- This feature may not work properly depending on the content.
- Noise may appear on the image depending on the device connected to the TV (e.g. a device with specific enhancer function).

Using DynaLight™

The DynaLight™ feature automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **DynaLight**.
- 3 Press **◀** or **▶** to select **On** or **Off** and press **EXIT**.

Using Dynamic Contrast

Dynamic Contrast detects changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Dynamic Contrast**.
- 3 Press **◀** or **▶** to adjust the level, and then press **ENTER**. The adjustment range is from **0** to **10**.

Note: If the Picture Mode is set to **AutoView**, the level range is from -5 to +5.

Using the Static Gamma feature

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

To adjust the static gamma settings:

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Static Gamma**.
- 3 Press **◀** or **▶** to adjust the level and press **ENTER**. The adjustment range is within ± 15 from center.
 - If the setting is moved in the minus direction, the detail of black colors will be decreased.
 - If the setting is moved in the plus direction, the detail of black colors will be increased.

Using the Film Stabilization feature

This feature helps to eliminate the video shaking.

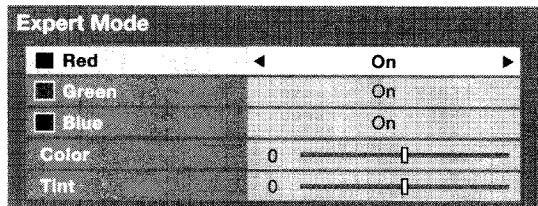
- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Film Stabilization**.
- 3 Press **◀** or **▶** to select **Smooth**, **Standard** or **Off** and press **EXIT**.

Note: If the Picture Mode is set to **Game**, this feature is set to **Off** automatically.

Using Expert Mode

This feature individually enables/disables the Red, Green, and Blue components of the picture to allow for more accurate adjustment of each color.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select the **Expert Mode**, and then press **ENTER**.
- 3 Press **▲** or **▼** to select either **Red**, **Green** or **Blue**, you want to adjust.



- 4 Press **◀** or **▶** to select **On**.
- 5 Press **▼** to select **Color** or **Tint**, and then press **◀** or **▶** to adjust, and then press **EXIT**.

Note:

- If the Picture Mode is set to **AutoView**, this feature will be grayed out.
- When the Expert Mode menu is exited, the **On/Off** modes of **Red**, **Green** and **Blue** are no longer valid.
- It is not possible to turn off all three colors at the same time.

Using ClearScan 240™ feature

This feature reduces image lag and provides a crisper image.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **ClearScan 240**.
- 3 Press **◀** or **▶** to select **On**, then press **EXIT**.

Using MPEG NR

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Noise Reduction** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight the **MPEG NR**.
- 4 Press **◀** or **▶** to select either **Off**, **Low**, **Middle**, or **High** and press **ENTER**.

Note: If the Picture Mode is set to **Game**, this feature will be grayed out.

Using DNR

DNR enables you to “soften” the screen representation of a weak signal to reduce the noise effect.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Noise Reduction** and press **ENTER**.
- 3 Press **▲** or **▼** to select **DNR**.
- 4 Press **◀** or **▶** to select **Low**, **Middle**, **High**, **Auto** or **Off** and press **ENTER**.

Note:

- If the Picture Mode is set to **Game**, this feature will be grayed out.
- The differences may not always be noticeable (for the best result use lower settings as picture quality can be lost if the setting is too high)

Using the Auto Brightness Sensor

When the Auto Brightness Sensor feature is set to On, the TV will automatically optimize the backlighting levels to suit ambient light conditions.

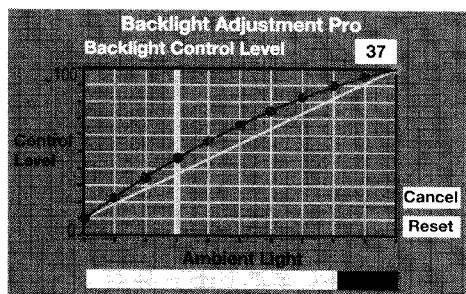
- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Auto Brightness Sensor Settings** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight **Auto Brightness Sensor**.
- 4 Press **◀** or **▶** to select **On** or **Off** and press **ENTER**.

Note: If the Picture Mode is set to **AutoView**, this feature will be automatically set to **On** and grayed out.

Using the Backlight Adjustment Pro

This feature adjusts the backlight so that it can change to match the ambient light conditions.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Auto Brightness Sensor Settings** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight **Backlight Adjustment Pro** and press **ENTER**. The Backlight Control Level window will appear.
- 4 Press **ENTER** to display the adjustment window. Press **◀** or **▶** to select the point and press **▲** or **▼** to adjust the level. The adjustment range is from 0 to 100.



- 5 Press **ENTER** to fix the adjustment. To cancel the adjustment when selecting a point, select **Cancel** on the screen. To revert the adjustments of all points to the factory defaults, select **Reset** on the screen and press **ENTER**.

Note: If the Auto Brightness Sensor is set to **Off**, this feature will be grayed out.

Using the ColorMaster™ feature

The ColorMaster™ feature allows you to adjust standard colors.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **ColorMaster** and press **◀** or **▶** to select **On**, then press **EXIT**.

Using the Base Color Adjustment

When ColorMaster™ is set to On, the list of base colors will be displayed. You can select a base color to adjust.

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Base Color Adjustment** and press **ENTER**. The **Base Color Adjustment** window will appear.

Base Color Adjustment			
	Hue	Saturation	Brightness
■ Red	-1	-1	-1 ▶
■ Green	-1	-1	-1
■ Blue	-1	-1	-1
■ Yellow	-1	-1	-1
■ Magenta	-1	-1	-1
■ Cyan	-1	-1	-1
Reset			

- 3 Press **▲** or **▼** to select to highlight the color you want to adjust, and then press **▶**.
- 4 Press **◀** or **▶** to select either **Hue**, **Saturation**, or **Brightness**.
- 5 Press **▲** or **▼** to adjust the setting, and then press **MENU**.
- 6 Repeat steps 3 through 5 to adjust any other color. To revert the adjustments to the factory defaults, select **Reset** on the screen and press **ENTER**.

Selecting the color temperature

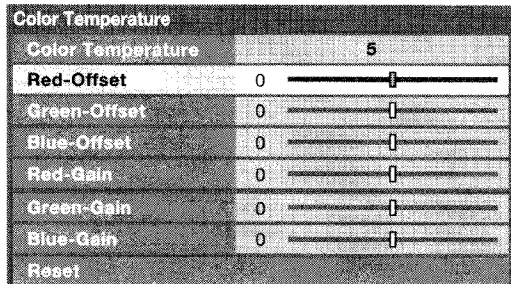
To adjust the color temperature:

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Color Temperature** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight **Color Temperature**.
- 4 Press **◀** or **▶** to adjust the level. The adjustment range is 0 (warm) to 10 (cool), then press **EXIT**.

Note: If the Picture Mode is set to **AutoView**, the adjustment range is -5 to +5.

To adjust RGB Offset and RGB Gain:

- 1 From the **PICTURE** menu, highlight **Advanced Picture Settings** and press **ENTER**.
- 2 Press **▲** or **▼** to select **Color Temperature** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight the menu you want to adjust, and then press **◀** or **▶** to adjust the setting and press **ENTER** to return to the previous menu.



- 4 To revert the adjustments to the factory defaults, select **Reset** on the screen and press **ENTER**.

Note: If Picture Mode is set to **AutoView**, only the **Color Temperature** setting will be available.

Using the advanced audio settings features

Using the surround sound feature

Surround, Voice Enhancement, and Dynamic Bass Boost help to create a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

- 1 Put the TV in **STEREO** mode (see "Selecting stereo/SAP broadcasts" on page 52).
- 2 From the **SOUND** menu, highlight **Advanced Audio Settings** and press **ENTER**.
- 3 Press **▼** or **▲** to highlight the feature you want to adjust, and then press **◀** or **▶** to adjust the item.

Mode	Description
Surround	To select the desired mode (Spatial, Cinema, or Off). Spatial: It reproduces an expanding and deep sound Cinema: It delivers a sound with realistic sensation that you feel in a movie theater.
Voice Enhancement	To turn the vocal emphasis effect On or Off.
Dynamic Bass Boost	To select the desired bass expansion level (Off, Low, or High).

Using the Media Player

The TV allows you to enjoy photos, movies or music contents stored on a USB device or SD memory card (only for photos).

Note:

- SD memory card is only available for viewing JPEG files.
- Do not insert/remove USB device and SD memory card during using.
- **MENU** is not available during playback.

Media Player Specifications

Device

USB device:

USB Mass Storage Class devices (MSC)

Note:

- Connectivity is not guaranteed for all devices.
- Connect the USB device to the TV directly.
- Do not use a USB hub.

SD memory card:

SD memory card: up to 2GB

SD High-Capacity Card (SDHC): 4 - 32GB

Note: Do not use any SD memory cards other than those specified.

Supported file system

FAT12, FAT16 and FAT32

You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.

Basic operation

Auto start:

- 1 From the **APPLICATIONS** menu, highlight **Media Player** and press **ENTER**.
- 2 Press **▲** or **▼** to highlight **Auto Start**.
- 3 Press **◀** or **▶** to select **On**.
- 4 Insert USB device into the **USB** terminal or SD memory card into the **SD card slot** on the right side of the TV.
- 5 Press **▲** or **▼** to select **Photo, Movie, Music** and press **ENTER**. The thumbnail view (for Photo) or list of files (for Movie and Music) will appear.
- 6 Press **▲** or **▼** to select USB device or SD memory card if the selection window is displayed.
- 7 A confirmation message will appear. Highlight **Yes**, and then press **ENTER**.

Note: If the Auto Start is set to **Off**, you can start the Media Player manually.

Manual Start:

- 1 Insert USB device into the **USB** terminal or SD memory card into the **SD card slot** on the right side of the TV.
- 2 Press **THING** and highlight **Media Player**, and then press **ENTER**.
- 3 Press **▲** or **▼** to select **Photo, Movie, or Music** and press **ENTER**. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.
- 4 Press **▲** or **▼** to select USB device or SD memory card if the selection window appears

To select a file in the list of contents:

- 1 Press **▲▼◀▶** to select a file or folder.
- 2 Press **ENTER** to move to the next layer, press **CH RTN** to return to the previous layer.
If there are more pages in the list, press **◀PAGE** or **PAGE▶** to move to the previous or next page.

To close the Media Player:

Press **EXIT**. The TV will return to the last-viewed channel or video input.

Playing DivX® files (only for USB devices)

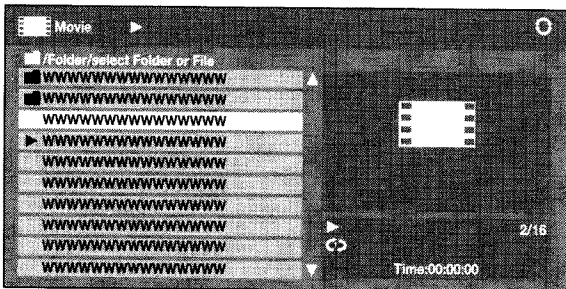
Note: Some DivX® contents will not play without registration of your TV. To playback those DivX files, register your TV to your DivX® account (see right-hand column).

Basic Playback:

- 1 After selecting a file (see "To select a file in the list of contents" on page 67), press **ENTER** or **PLAY** to begin playback.

Note:

- The Media Player memorizes the location where playback is stopped. The content resumes playback from the location where playback was stopped when you press **PLAY** next time. To start playback from the beginning regardless of the location where playback was stopped, press **STOP** twice in Step 2 below.
- Depending on the file size, it takes some time to start content.



- 2 Press **STOP** to stop playback.
- 3 If playback finishes before **STOP** is pressed, the next file will start playing automatically.

To pause playback:

Press **PAUSE/STEP** during playback.

To resume normal playback, press **PLAY**.

To play in fast reverse or fast forward directions:

Press **REW** or **FF** during playback. Each time you press the **REW** or **FF**, the playback speed will change.

- **REW**: Fast reverse playback
- **FF**: Fast forward playback

To locate a specific content:

Press **SKIP** or **SKIP** repeatedly to access the desired content.

- **SKIP**: Playback starts from the beginning of the current content. When you press twice quickly, playback starts from the beginning of the preceding content.
- **SKIP**: To locate subsequent content.

Note: If the previous or next file is not compatible, it will be skipped automatically.

To select a language:

- 1 Press **CAPTION** during playback.
- 2 Press **▲** or **▼** to select **Subtitle** or **Audio**.
- 3 Press **◀** or **▶** to select your preferred language.

To set the repeat mode:

- 1 Press **THING**.
- 2 The current repeat setting will appear. Press **◀** or **▶** to select **Off**, **All** or **1**.
- 3 Press **THING** or **CHRTN**.
The setting is effective until the TV is turned off.

To display the file status information:

- 1 Press **RECALL** during playback. The following information will be displayed on the bottom of the screen.
 - Content number/Total number (only for the contents stored in the same directory)
 - Movie title
 - Progress time
 - Audio format
 - Repeat status icon
- 2 Press **RECALL** again to remove the information.

Note: The file status information will disappear after about 6 seconds.

To register your TV to DivX® account:

- 1 From the **APPLICATIONS** menu, highlight **Media Player** and press **ENTER**.
- 2 Press **▲** or **▼** to highlight **DivX® VOD** and press **ENTER**.
- 3 A DivX® VOD window appears and you can find the eight character registration code. For details on registration, visit the DivX website at <http://vod.divx.com/>
- 4 Copy the activation file to a USB device and play it in the TV.

Compatibility files

File format: DivX®

Maximum video resolution: 720 × 480 (30 fps),

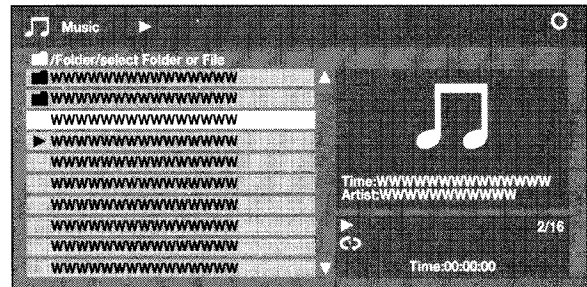
Total number of files: Less than 500 per a folder

- **ABOUT DIVX VIDEO:**
DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified or DivX Ultra Certified device that plays DivX video.
- **ABOUT DIVX VIDEO-ON-DEMAND:**
This DivX® Certified device must be registered in order to play DivX Video-on-Demand (VOD) content. First generate the DivX VOD registration code for your device and submit it during the registration process. [Important: DivX VOD content is protected by a DivX DRM (Digital Rights Management) system that restricts playback to registered DivX Certified devices. If you try to play DivX VOD content not authorized for your device, the message "Authorization Error" will be displayed and your content will not play.] Learn more at www.divx.com/vod.

Playing MP3 files (only for USB devices)

Basic Playback:

- 1 After selecting a file (see page 67), press **ENTER** or **PLAY** to begin playback.



Note:

- The Media Player memorizes the location where playback is stopped. The content resumes playback from the location where playback was stopped when you press **PLAY** next time. To start playback from the beginning regardless of the location where playback was stopped, press **ENTER**.
- Depending on the file size, it takes some time to start content.

- 2 Press **STOP** to stop playback. If playback finishes before **STOP** is pressed, the next file will start playing automatically.

To pause playback:

Press **PAUSE/STEP** during playback.

To resume normal playback, press **PLAY**.

To play in fast reverse or fast forward directions:

Press **REW** or **FF** during playback. Each time you press the **REW** or **FF**, the playback speed will change.

- **REW**: Fast reverse playback
- **FF**: Fast forward playback

To locate a specific content:

Press **SKIP** or **SKIP** repeatedly to access the desired content.

- **SKIP**: Playback starts from the beginning of the current file.
- When you press twice quickly, playback starts from the beginning of the preceding file.
- **SKIP**: To locate subsequent content.

Note: If the previous or next file is not compatible, it will be skipped automatically.

To set the repeat mode:

- 1 Press **THING**. The current repeat setting will appear.
- 2 Press **◀** or **▶** to select **Off**, **All** or **1**.
- 3 Press **THING** or **CHRTN**.
The setting is effective until the TV is turned off.

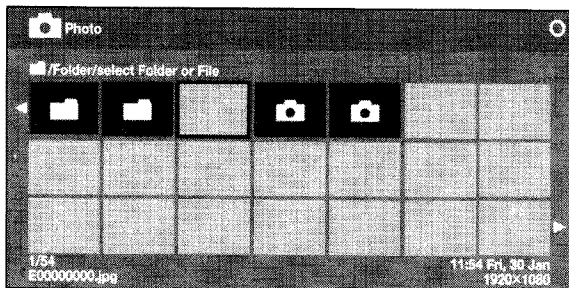
Compatibility files:

File format: MP3
 Sampling frequency: 16 kHz, 22.05 kHz, 24 kHz,
 32 kHz, 44.1 kHz, 48 kHz
 Bit rate: from 8 to 320kbps
 Total number of files: Less than 500 per a folder

Viewing JPEG files

To view in Single View mode:

- 1 When the thumbnail appears after starting the Media Player (see page 67), press **◀▶▼▲** to select a file or folder.
If there are more pages in the list, press **◀PAGE** or **PAGE▶** to move to the previous or next page.



- 2 Press **ENTER** to begin viewing the selected file or to move to the next layer.
Press **CHRTN** to return to the previous layer.
- 3 Press **▶** to view the next file, press **◀** to view the previous file.

Note: If the previous or next file is not compatible, it will be skipped automatically.

To view in Slide Show mode:

- 1 To switch to the Slide Show mode, press **ENTER** during the Single View mode.
To return to Single View mode, press **ENTER** again.
- 2 Press **▶** to view the next file, press **◀** to view the previous file.

Note: If the previous or next file is not compatible, it will be skipped automatically.

- 3 Press **ENTER** to return to Single View mode.

To set the Slide Show mode settings:

- 1 Press **THING** during Slide Show mode.
- 2 Press **▲** or **▼** to highlight the item (**Interval Time** or **Repeat**).
- 3 Press **◀** or **▶** to adjust the setting.
- 4 Press **THING** or **CHRTN** to return to Slide Show.

Item	Description
Interval Time	To set a time interval to view photos at your preferred intervals (3sec, 5sec, 10sec, 15sec, 30sec, 60sec, or 90sec).
Repeat	To display photos in the same directory repeatedly. On/Off

To rotate the image:

During viewing the image in the Single View mode, press **▲** to rotate the image 90 degrees clockwise, press **▼** to rotate the image 90 degrees counterclockwise.

To return to the thumbnail:

Press **CHRTN** during Single View mode or Slide Show mode.

To display file status information:

- 1 Press **RECALL**. The following information will be displayed on the bottom of the screen.
 - Content number/Total number (only for the contents stored in the same directory)
 - Photo title
 - Date and time taken
 - File size
 - Slide Show icon (if applicable)
 - Repeat play icon (if applicable)
 - Operation guide
- 2 Press **RECALL** again to make the information disappear off screen.

Note: The file status information will disappear after about 6 seconds.

Compatibility files:

Data compatibility: JPEG Exif ver 2.2
 File format: DCF ver 1.1
 Maximum viewable resolution: 16384 × 16384 pixels
 (Total number of pixels: 10,000,000)
 Maximum photo size: 9 MB
 Total number of files: Less than 2000 per folder

Chapter 8: Troubleshooting

General troubleshooting

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

Black box on-screen

- The closed caption feature is set to one of the Text modes (**T1**, **T2**, **T3**, or **T4**). Set the closed caption feature to **Off** (ⓘ page 50).

TV stops responding to controls

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

Other problems

- If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (ⓘ page 40).

TV will not turn on

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

Picture problems

General picture problems

- Check the antenna/cable connections (ⓘ Chapter 2).
- Press **INPUT** on the remote control or the TV and select a valid video input source (ⓘ page 41). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (ⓘ page 49).
- If you are using a VCR, make sure **TWVCR** ⓘ on the remote control is set correctly (ⓘ page 22).
- Do not connect both a standard video cable and an S-video cable to the **VIDEO 1** input at the same time (ⓘ page 13).

Video Input Selection problems

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

Cannot view external signals or channel 3 or 4

- If you cannot view signals from external devices connected to **VIDEO 1**, **VIDEO 2**, **ColorStream**®, **HDMI 1**, **HDMI 2**, **HDMI 3**, **HDMI 4**, **PC** or from channels 3 or 4, make sure the **Input Lock** is set to **Off** (ⓘ page 56).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (ⓘ page 49).

Poor composite or S-video picture

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

- If you connect an S-video cable, be sure to disconnect the standard (composite) video cable. Do not connect both types of video cable at the same time.

Picture and sound are out of sync

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

Sound problems

- Check the antenna/cable connections (ⓘ Chapter 2).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press **VOLUME**.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (ⓘ page 52).
- If you are not receiving a second audio program from a known SAP source, make sure the **MTS** feature is set to **SAP** mode (ⓘ page 52).
- If you hear audio that seems “incorrect” for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the **MTS** feature to **Stereo** mode (ⓘ page 52).
- If you connect a PC using either the **PC IN** terminal or an **HDMI** terminal, make sure that the **PC Audio** setting is properly set (ⓘ page 57).

Remote control problems

- Make sure the remote control is set to the correct device mode (ⓘ page 22).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (ⓘ page 20).
- Your TV remote control may not operate certain features on your external device. Refer to the owner's manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (ⓘ pages 26–33).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (ⓘ page 40).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (ⓘ page 22).
- The channel may have been erased from the channel memory by the **Auto Tuning** feature. Add the channel to the channel memory (ⓘ page 37).
- The channel may be blocked by the **Lock** feature. Unblock the channel (ⓘ page 55).

(continued)

- If you are unable to tune digital channels, check the antenna configuration (🔍 page 37). If you are still unable to tune digital channels, clear all channels from the channel list and reprogram channels into the channel memory (🔍 page 37). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (🔍 page 40). Also see “TV stops responding to controls” and “Other problems” (🔍 page 71).

Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display.
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (🔍 page 50).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (🔍 page 50).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press **RECALL** four times within 5 seconds. The PIN code you previously stored will be cleared (🔍 page 53).
- The V-Chip feature is available for the U.S. V-Chip system only (🔍 page 54).

No REGZA-LINK operation

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

HDMI problems

For HDMI cables

- Make sure the HDMI cables with the HDMI Logo (**HDMI**) are used (🔍 page 12).

For Deep Color

- You should need to use High Speed HDMI cable to work properly. Normal HDMI cable or DVI cable may not work with this option (🔍 page 16).

For Legacy HDMI source

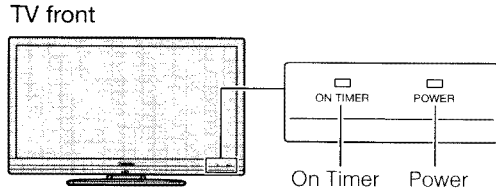
- Some of legacy HDMI sources may not work properly with latest HDMI TV products, due to new standard adoption. Please try to set Off the HDMI settings (Deep Color, Lip Sync, RGB Range, INSTAPORT™) (🔍 page 61). Your legacy HDMI source should operate properly with this TV products.

Media Player problems

- Make sure that devices are connected correctly.
- If you connect a USB device with separate cable or through USB hub, the TV does not recognize the USB device.

LED indications

The Power and On Timer LED lights on the TV front indicate the TV's status, as described below.



LED Indication

Power LED

- **Green is ON (solid)**

The TV is operating properly.

- **Orange is ON (solid)**

Standby with Power-On Mode set to Fast. See "Selecting the Power-On Mode" (page 40).

- **Green blinks three times**

TV is powering up. Wait several seconds until the green LED stops blinking.

- **Green blinks**

Abnormal operation of BUS line. Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

- **Red blinks**

Power protect detection. Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

- **Orange blinks**

Abnormal operation of back light. Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

On Timer LED

- **Green is ON (solid)**

On Timer is set.

- **Green blinks (if applicable)**

Fan Stopped. Turn Off the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

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

- **In the U.S., call TACP Consumer Solutions at 1-800-631-3811.**
- **In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to www.toshiba.ca; click "Home Entertainment," and then click "Support."**

Chapter 9: Appendix

Specifications

Note:

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

Television System

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

Channel Coverage

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

Power Source: 120 V AC, 60 Hz

Power Consumption

42ZV650U: 1.7 Arms (maximum current)
0.2 W in standby mode
47ZV650U: 2.4 Arms (maximum current)
0.3 W in standby mode
55ZV650U: 2.8 Arms (maximum current)
0.3 W in standby mode

Audio Power: 10 W + 10 W

Speaker Type

Main: Two 2-5/8 × 5-1/8 inches (65 × 130 mm)
Twiter (except for 42ZV650U):
Two 1-1/4 inches (32 mm)

Video/Audio Terminals

S-VIDEO INPUT:

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

VIDEO/AUDIO INPUT:

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

ColorStream® (component video) HD INPUT:

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

HDMI™ INPUT:

HDMI compliant
HDCP compliant
Audio Lip Sync supported
Deep Color supported (10 bit 4:4:4, 12 bit 4:4:4)
Suggested formats: See table on the next page.
HDMI Audio: 2-channel Linear-PCM; 32/44.1/48
kHz sampling frequency; 16/20/24
bits per sample

FIXED AUDIO OUTPUT:

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

DIGITAL AUDIO OUTPUT:

Optical type

IR OUT:

3 V(p-p), 3.5 mm mono socket

PC INPUT:

15-Pin D-sub Analog RGB

Dimensions (include foot stand)

42ZV650U: Width: 41-3/4 inches (1,058 mm)
Height: 28-5/8 inches (724 mm)
Depth: 13 inches (329 mm)
47ZV650U: Width: 46-3/8 inches (1,176 mm)
Height: 31-1/4 inches (792 mm)
Depth: 13 inches (329 mm)
55ZV650U: Width: 53-5/8 inches (1,362 mm)
Height: 35-1/2 inches (901 mm)
Depth: 15-5/8 inches (396 mm)

Mass (weight)

42ZV650U: 48.5 lbs (22.5 kg)
47ZV650U: 57.3 lbs (26.0 kg)
55ZV650U: 79.4 lbs (36.5 kg)

Operating conditions

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

Supplied Accessories

- Remote control with two size "AA" alkaline batteries
- Owner's manual (this book)
- Securement Clip
Use this clip to attach the TV to a wall stud, pillar, or other immovable structure. See item 23 on page 3 and instructions on page 5.
- Cleaning cloth (to clean the cabinet and control panel)

Acceptable signal formats for PC IN and HDMI terminals

PC IN signal formats

Note:

- The PC IN on this TV only accepts the signal formats which are compliant with VESA-DMT as shown in the table below. Since some PCs input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC to conform to any signals in the table below.
- The signals whose vertical frequency are 56Hz, 70Hz, 72Hz, or 75Hz are converted to 60Hz signal.
- When you connect a PC to this TV, it is recommended to set the refresh rate of your PC to 60Hz.
- The PC IN on this TV does not accept the Sync on Green, Composit Sync and Interlace signals.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard (DMT)
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz	●
		72.809Hz	37.861kHz	31.500MHz	●
		75.000Hz	37.500kHz	31.500MHz	●
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	●
		60.317Hz	37.879kHz	40.000MHz	●
		72.188Hz	48.077kHz	50.000MHz	●
		75.000Hz	46.875kHz	49.500MHz	●
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	●
		70.069Hz	56.476kHz	75.000MHz	●
		75.029Hz	60.023kHz	78.750MHz	●
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	●
		59.870Hz	47.776kHz	79.500MHz	●
		74.893Hz	60.289kHz	102.250MHz	●
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	●
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	●
		75.025Hz	79.976kHz	135.000MHz	●

HDMI signal formats

Note:

- The HDMI inputs on this TV only accept VGA, SVGA, XGA, WXGA, and SXGA signal formats which are compliant with VESA as the table below. Since some PCs and HDMI or DVI devices input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC, HDMI or DVI device to conform to any signals in the table below.
- The signals whose vertical frequency are 24Hz, 56Hz, 70Hz, 72Hz, or 75Hz are converted to 60Hz signal.
- When you connect a PC to this TV, it is recommended to set the refresh rate of your PC to 60Hz.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz	●
		72.809Hz	37.861kHz	31.500MHz	●
		75.000Hz	37.500kHz	31.500MHz	●
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz	●
		72.188Hz	48.077kHz	50.000MHz	●
		75.000Hz	46.875kHz	49.500MHz	●
	1280 × 1024	56.250Hz	35.156kHz	36.000MHz	●
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	●
		70.069Hz	56.476kHz	75.000MHz	●
		75.029Hz	60.023kHz	78.750MHz	●
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	●
		59.870Hz	47.776kHz	79.500MHz	●
		74.893Hz	60.289kHz	102.250MHz	●
		60.015Hz	47.712kHz	85.500MHz	●
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	●
		75.000Hz	79.976kHz	135.000MHz	●
480i	720 × 480i	59.940/60Hz	15.734/15.750kHz	27.000/27.027MHz	
480p	720 × 480p	59.940/60Hz	31.469/31.500kHz	27.000/27.027MHz	
720p	1280 × 720p	59.940/60Hz	44.955/45.000kHz	74.176/74.250MHz	
1080i	1920 × 1080i	59.940/60Hz	33.716/33.750kHz	74.176/74.250MHz	
1080p	1920 × 1080p	23.976/24Hz	26.973/27.000kHz	74.176/74.250MHz	
		59.940/60Hz	67.433/67.500kHz	148.352/148.500MHz	

Limited United States Warranty for LCD Televisions 26" and Larger

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

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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

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

Limited One (1) Year Warranty on Parts and Labor

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

Rental Units

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

Limited Warranty for Commercial Units

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

Owner's Manual and Product Registration Card

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

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

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must retain your original bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this LCD Television must be performed by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if this LCD Television is purchased and operated in the Continental U.S.A. or Puerto Rico.

- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Service

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

- (1) To find the nearest TACP Authorized Service Station, visit TACP's website at www.tacp.toshiba.com/service or contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
- (2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

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

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

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

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

Limited Canadian Warranty for Toshiba Brand Flat Panel Televisions

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND FLAT PANEL TELEVISION (the "TELEVISION(S)" or "Television(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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

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

Limited One (1) Year Warranty on Parts and Labour

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

- (a) FOR TELEVISIONS 32 INCHES OR LESS: YOU MUST DELIVER THE ENTIRE TELEVISION TO A TCL TELEVISION AUTHORIZED SERVICE PROVIDER ("ASP"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.
- (b) FOR TELEVISIONS OVER 32 INCHES: During this period, ASP personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the Television will be taken to an ASP for repair and returned to your home at no cost to you. **IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.**

Limited Warranty for Commercial Units

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

- (c) FOR TELEVISIONS 32 INCHES OR LESS: YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.
- (d) FOR TELEVISIONS OVER 32 INCHES: During this period, ASP personnel will come on-site when warranty service is required. Depending on the type of repair required, the service will either be performed on-site or the Television will be taken to an ASP for repair and returned at no cost to you. **ON-SITE SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN**

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

Rental Units

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

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

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

Disclaimer and Limitation of Remedy

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

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

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

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

Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence and negligent and/or fraudulent misrepresentation), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the Television; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the Television; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you

may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

Critical Applications

The Television you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where Television failure could lead to injury to persons or loss of life or catastrophic property damage. IF THE CUSTOMER USES THE TELEVISION IN ANY CRITICAL APPLICATION, THE CUSTOMER - AND NOT TCL, ITS AFFILIATES, ADRs OR ASPs - ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY TELEVISION USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRs AND ASPs HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH TELEVISION AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE TELEVISION IN ANY CRITICAL APPLICATIONS.

General Provisions

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

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario. If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Television or in any other document enclosed with, or used in the context of the promotion or sale of, the Television, on the other hand, the provisions of this limited warranty shall prevail.

How to Obtain Warranty Services

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

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

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

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

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

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This software is based in part on the work of the Independent JPEG Group.

Index

- A**
Antenna input configuration 37
Audio quality adjustments 52
Audio system connection 18
Auto Aspect 48
Auto Brightness Sensor 65
Auto Input 39
Auto power off 62
Auto Tuning 37
AutoView™ 49
- B**
Backlight 49
Backlight Adjustment Pro 65
Base Color Adjustment 65
Blue Screen 40
- C**
CLOSED CAPTION button 51
CH ▲▼ buttons 44
CH RTN button 44
Channel Browser™ 42
Channel lock 56
Channel Number buttons 44
Channel Tuning Mode 44
ClearScan 240™ 64
Closed captions 50
Color Temperature 66
ColorMaster™ 65
ColorStream® 14
Component video 14
- D**
Deep Color 61
Digital Audio Out 18
Digital audio selector 51
Digital CC Settings 51
DivX® 68
DNR 64
Dolby® Digital 18
Dolby® Volume 53
Dynamic Range Control 53
DVD player connection 14
DVI connection 16
DynaLight™ 63
Dynamic Bass Boost 66
Dynamic Contrast 63
- E**
Expert Mode 64
- F**
Film Stabilization 63
FREEZE 48
- G**
GameTimer® 56
- H**
HDMI audio mode 61
HDMI settings 61
 Deep Color 61
 Lip Sync 61
 INSTAPORT™ 61
 RGB Range 61
HDMI™ connection 16
- I**
INFO button 62
INPUT button 41
Input Lock 56
Input label 38
INSTAPORT™ 61
Integrated digital tuning 9
IR blaster 15
IR OUT connection 15
- J**
JPEG 70
- L**
Language selection 36
Last mode memory feature 62
LED indications 10, 73
Location 39
Lip Sync 61
- M**
Manual Tuning 37
Media Player 67
MODE SELECT 21, 24
MP3 69
MPEG NR 64
MTS 52
MUTE 52
- O**
On Timer 58
Optical audio output format 53
- P**
Panel Lock 56
PC Audio 57
PC connection 19
PC settings 57
Picture mode 49
Picture quality 49
Picture scroll 48
Picture size selection 46
PIN code 53
POWER button 10, 21
Power-On Mode 40
- R**
RECALL button 62
REGZA-LINK® connection 17
REGZA-LINK® feature 59
Remote control
 Battery installation 20
 Device code table 26
 Functional key chart 22
 Programming 24
Reset Factory Defaults 40
Resolution+™ 63
RGB Range 61
- S**
SAP sound 52
Satellite receiver connection 14
Sleep Timer 58
Static Gamma 63
Stereo sound 52
SurfLock™ 45
Surround 66
System status 40
- T**
TheaterLock™ feature 50
TheaterWide® picture size 46
THINC™ menu 34
Time Zone 39
TOSHIBA Illumination 39
Transparency 40
TV status information 62
- V**
V-Chip blocking 54
VCR connection 13, 14
Voice Enhancement 66

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SERVICE CENTERS:

TORONTO: 191 McNABB STREET, MARKHAM, ONTARIO L3R 8H2, CANADA – TEL: (905) 470- 5400

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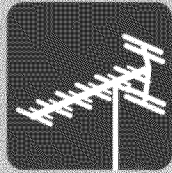
HDTV Quick Set-Up Guide (For US customers)

Congratulations on the purchase of your new Toshiba High-Definition Television. You must get HD Signal to get an HD Picture!

Getting HDTV is as easy as 1, 2 or 3.

There are 3 basic ways to receive an HDTV Signal on your new High-Definition TV.

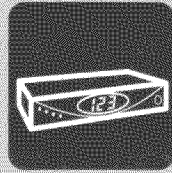
1 Over-The-Air (Antenna)



Connect a high quality outside antenna (not supplied) directly to the antenna input on the TV. (Reception cannot be guaranteed and is based on proximity to local signal)

Additional HDTV Antenna Reference Information can be obtained from www.antennaweb.org

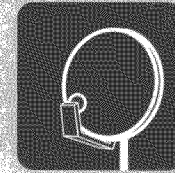
2 CABLE



Cable Customers will need to subscribe to High-Definition Digital Cable from your local provider. (Additional monthly subscription cost may apply)

Digital Cable or Digital Satellite is not HDTV. The picture quality is superior to standard analog cable, but it is not HDTV! See the difference HD Programming makes!

3 SATELLITE



Satellite Customers will need a High-Definition satellite receiver and appropriate dish hardware. (Additional monthly subscription cost may apply)

Once you have a High-Definition Signal you need to connect it to a High-Definition Input on your TV.

If you are connecting directly from an antenna or basic cable.



1 Antenna Input

To connect directly from an antenna or basic cable. Connect the cable directly to the antenna input on the back of the TV.

INPUT TV

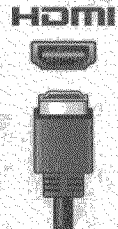


If you are using an HD Cable Box or HD Satellite Box, there are 3 standard connections that can be used to receive an HD signal.

2 HDMI™ to HDMI™

HDMI™ is the best connection for HDTV. This is a digital connection that carries both digital video and digital audio.

OUTPUT Cable box / Satellite box



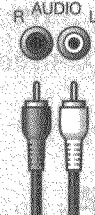
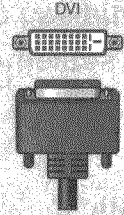
INPUT TV



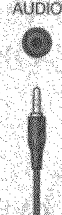
3 DVI to HDMI™

Your HD Cable Box or HD Satellite Receiver may have a DVI connection. This will be connected to the HDMI™ jack on the TV using an HDMI™ cable and an HDMI™ to DVI converter. DVI carries digital video only. Therefore, this will require a separate analog audio connection as well. (use the red and white audio connections)

OUTPUT Cable box / Satellite box



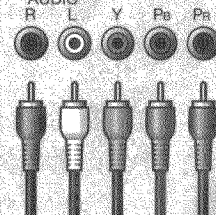
INPUT TV



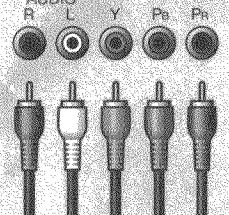
4 Component Video Input

ColorStream™ HD Component may also be used to receive HDTV. Use if no HDMI™ or DVI Jack is available. There are 3 jacks color-coded with Red-Green-Blue on the back of the TV and HD Cable Box or HD Satellite Receiver. This connection will require a separate analog audio connection. (use the red and white audio connections)

OUTPUT Cable box / Satellite box



INPUT TV



Now that you have HD Programming and are connected to an HD Input, Tune to an HD Channel (Remember not all channels are currently broadcast in HD) Sit back, relax and enjoy the superior quality of High-Definition.

Note: Standard analog TV channels and HD channels, even on the same network, broadcast on different channels. Example: ABC analog may be on channel 4, while ABC-HD may be on channel 104.

If you are experiencing problems please call Toshiba Customer Service at 1-800-631-3811

All cables and Adapters are sold separately.

For additional Toshiba Product Information visit www.tacp.com. Please remember to complete your product registration. Failure to register your product does not diminish your warranty rights.

TOSHIBA
Leading Innovation >>>



**Please Do The Following First Before Returning
This Product To The Store.**

**Faites d'abord ce qui suit avant de retourner ce
produit au magasin.**

If you are experiencing a technical problem or have questions regarding operation, authorized service centers, warranty or parts, please contact our Customer Service Department at:

1-(800) 631-3811 (For US Customers)

1-(800) 268-3404 (For Canadian Customers)

Many questions regarding parts, service, and warranties can be answered by visiting the Customer Support Section of our website:

www.tacp.com (For US Customers)

www.toshiba.ca (For Canadian Customers)

THANK YOU

Si vous éprouvez des difficultés techniques ou si vous avez des questions concernant le fonctionnement du produit, les centres de service autorisés, la garantie ou les pièces, veuillez appeler notre département du service à la clientèle au:

1-(800) 631-3811 (États-Unis seulement)

1-(800) 268-3404 (Canada seulement)

Vous trouverez également des réponses à de nombreuses questions sur les pièces, le service et les garanties en visitant la section Soutien à la clientèle de notre site Web:

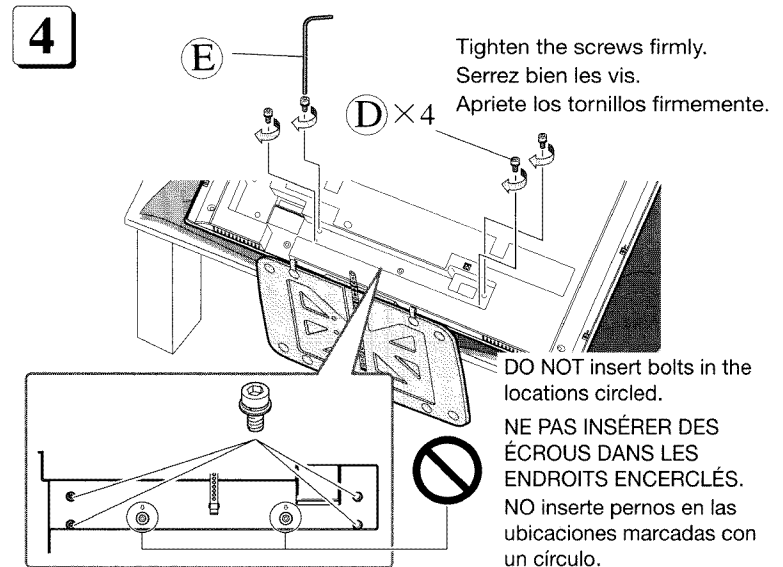
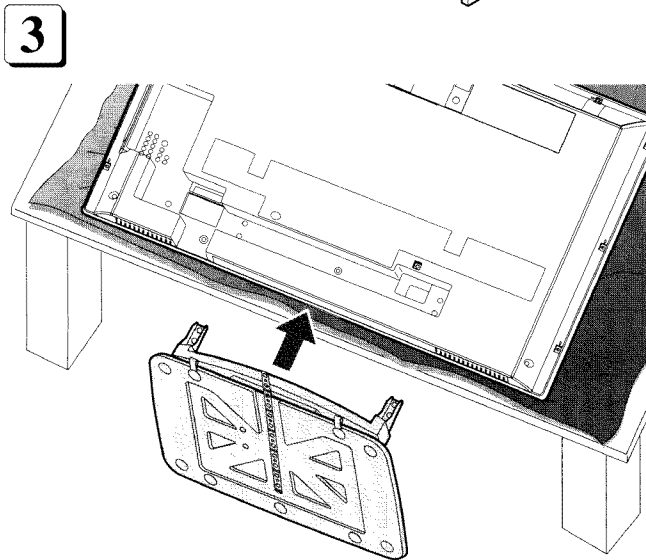
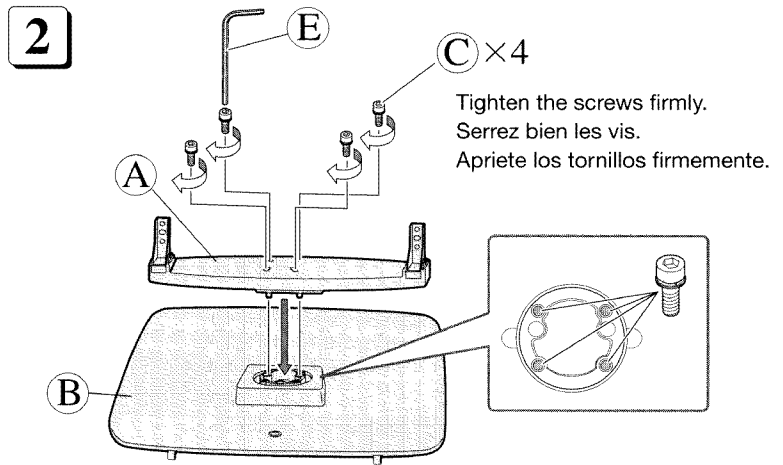
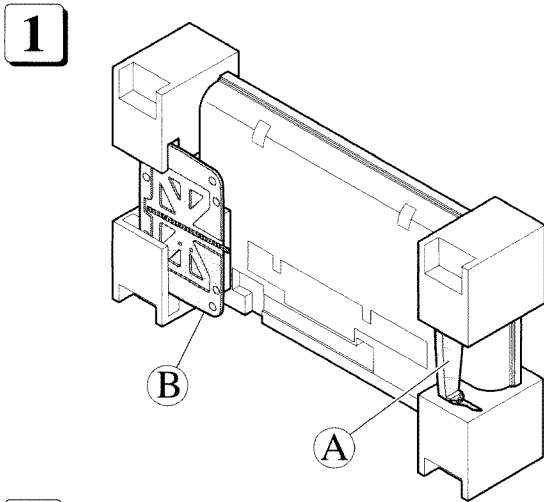
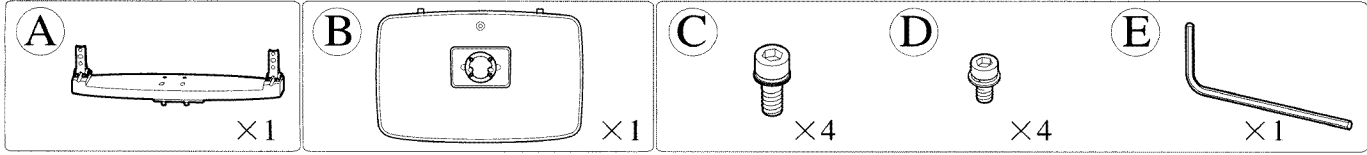
www.tacp.com (États-Unis seulement)

www.toshiba.ca (Canada seulement)

MERCI

****PLEASE SEE OPPOSITE SIDE OF THIS PAPER FOR QUICK SETUP DIRECTIONS**** ➔

Appearance of the pedestal stand depends on the respective models.
L'aspect du support de table dépend des modèles respectifs.
El aspecto de la base varía en cada modelo respectivo.



WARNING: To prevent possible electric shock, protect the power cord from being pinched when attaching the pedestal stand.

AVERTISSEMENT : Pour éviter tout risque de choc électrique, éviter que le cordon électrique soit coincé en fixant le socle.

ADVERTENCIA: Para evitar posibles descargas eléctricas, evite presionar el cable de alimentación cuando coloque el soporte del 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 pedestal as indicated below.

ATTENTION : Avant de commencer l'assemblage du support de table, placer avec soin l'avant du panneau ACL, face vers le bas, sur une surface plane, matelassée, comme sur une courtepointe ou une couverture. Laisser dépasser le bas de l'unité du rebord de la surface et monter le support de table tel qu'indiqué ci-dessous.

PRECAUCIÓN: Antes de comenzar a montar el pedestal, coloque con cuidado la parte delantera del panel LCD boca abajo en una superficie plana y acolchonada, como una sábana o una colcha. Deje la parte inferior de la unidad de manera que sobresalga de la superficie y monte el pedestal como se indica arriba.

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

Remarque : Toujours faire très attention quand vous attachez le support de table pour éviter d'endommager le panneau ACL.

Nota: Debe extremar las precauciones cuando coloque el soporte del pedestal para evitar dañar el panel LCD.

How To Clean Your Cabinet

When cleaning your cabinet, please first remove any dirt or dust from the surface and then gently wipe with the enclosed cleaning cloth or other soft cloth. Harsh rubbing or use of a dirty cleaning cloth or stiff cloth will scratch the surface of the cabinet.

Comment nettoyer votre cabinet

Quand vous nettoyez votre cabinet, s'il vous plait, au début, enlevez toutes saletés ou poussières qui pourrait être sur la surface et puis doucement nettoyez avec le chiffon prévu a cet effet ou un autre chiffon lisse. Un rude coup de chiffon ou l'usage d'un chiffon sale ou rigide rayera la surface du cabinet.

Please send products and other correspondence to:

Toshiba America Consumer Products, L.L.C.
82 Totowa Road
Wayne, NJ 07470

First Class
Postage
Required
Post Office will
not deliver without
proper postage.

Toshiba America Consumer Products, L.L.C.
P.O. Box 3980
Peoria, IL 61612-3980

IMPORTANT!

TOSHIBA

Image is Everything™

PRODUCT REGISTRATION CARD

Complete and return this Product Registration Card within 10 days to receive valuable Toshiba information. Failure to complete and return this card does not diminish your warranty rights.

See details inside...

If you have comments or suggestions about our product, please write to:

Toshiba America Consumer Products, L.L.C. >> 82 Totowa Road >> Wayne, NJ 07470

TOSHIBA'S CONSUMER INFORMATION PROGRAM

Congratulations for choosing Toshiba, a leader in developing tomorrow's technology today. Toshiba is committed to producing high-quality, reliable and innovative products. To uphold our commitment to excellence, we need to understand our customers' needs.

Please complete the following Product Registration Card. The information we are asking from you below will help us bring you new products specifically designed to meet your needs. By registering your product you will automatically be enrolled in our Consumer Information Program, which provides you with the following benefits:

1. **PRODUCT SAFETY NOTIFICATION:** Registering our product will allow us to contact you in the unlikely event a product safety notification is required.
2. **CONFIRMATION OF OWNERSHIP:** We will keep the model number, serial number, and other information on this card in our files for up to ten years. In the event of fire, flood or theft, your registration will serve as your proof of purchase for insurance purposes.
3. **WARRANTY SERVICE:** Filling out this card will help us contact you in case there is a problem with this product.

IMPORTANT: Please register your product within 10 days by mail or register online @ www.tacp.toshiba.com/register

1. Mr. Mrs. Ms. Miss

Email address

First Name Initial Last Name

Street Apt. No.

City State Zip Code

Home telephone number Work telephone number 2. Date of Purchase

Area Code Area Code Month Day Year

IMPORTANT! To ensure your enrollment in Toshiba's Consumer Information Program, write the complete model number of the product you purchased in the space below.

3. Model Number 4. Serial Number

5. Price paid (excluding tax) \$.00

6. Have you purchased a service contract or extended warranty for this product?

1. Yes, from my retail dealer
2. No, but contract was offered by my retail dealer
3. No, contract was not offered

a. If you answered "yes" to 6, how long does your service contract or extended warranty last?

1. 1 Year
2. 2 Years
3. 3 Years
4. More than 3 Years

b. Would you like to obtain more information from Toshiba on extended warranties:

1. Yes
2. No

7. Where was this product purchased?

- | | |
|--|---|
| 01. <input type="checkbox"/> Received as a Gift | 07. <input type="checkbox"/> Catalog Showroom |
| 02. <input type="checkbox"/> Department Store | 08. <input type="checkbox"/> Rental Dealer |
| 03. <input type="checkbox"/> Discount Store | 09. <input type="checkbox"/> Mail Order |
| 04. <input type="checkbox"/> TV/Appliance Store | 10. <input type="checkbox"/> Premium Offer |
| 05. <input type="checkbox"/> Specialty/Electronics Store | 11. <input type="checkbox"/> Other |
| 06. <input type="checkbox"/> Warehouse/Membership Club | |

fold here

With #1 being the most important, prioritize the following:

1. Where do you get new product information?
 - newspaper
 - tech magazines
 - news broadcasts
 - on-line
 - product literature
 - retail salesperson
 - other
2. What resources do you use to make your purchase decision?
 - friends/family
 - on-line research
 - retail salesperson
 - product reviews
 - other
3. What do you look for when purchasing CE products:
 - style, cosmetics
 - picture quality
 - brand
 - quality
 - price
 - technology
 - reliability
4. Why did you choose this product?
 - brand image
 - quality
 - price
 - purchased other Toshiba products
 - technology
 - reliability
 - recommended by a friend/family
 - product reviews

Check all that apply

5. Which of the following products do you own?

Product	Manufacturer
<input type="checkbox"/> TV - projection TV	<input type="text"/>
<input type="checkbox"/> TV - tabletop	<input type="text"/>
<input type="checkbox"/> TV Combination	<input type="text"/>
<input type="checkbox"/> TV - flat panel/plasma	<input type="text"/>
<input type="checkbox"/> DVD player	<input type="text"/>
<input type="checkbox"/> Home Theater in a Box	<input type="text"/>
<input type="checkbox"/> TiVo®	<input type="text"/>
<input type="checkbox"/> Home Networking Server	<input type="text"/>
<input type="checkbox"/> Computer	<input type="text"/>
<input type="checkbox"/> Audio Player	<input type="text"/>
<input type="checkbox"/> Digital Camera	<input type="text"/>
<input type="checkbox"/> Digital Camcorder	<input type="text"/>
<input type="checkbox"/> Receiver	<input type="text"/>
<input type="checkbox"/> Speakers - stand alone	<input type="text"/>
<input type="checkbox"/> Other	<input type="text"/>

6. May we contact you?

- Yes No Email:

Thanks for taking the time to fill out this questionnaire. Your answers will be used for market research studies and reports.

Please check here if, for some reason, you would prefer not to participate in the opportunity.