

# TOSHIBA

Leading Innovation >>>

## Integrated High Definition LED TV/DVD Combination User's Guide:

24V4210U  
24V4260U

If you need assistance:

Toshiba's Support Web site [support.toshiba.com](http://support.toshiba.com)

Call Toshiba Customer Support Center:

Within the United States at (800) 631-3811

Outside the United States at (949) 583-3050

For more information, see "Troubleshooting" on page 147 in this guide.

### 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 LED TV/DVD combination.

Model number: \_\_\_\_\_

Serial number: \_\_\_\_\_

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

## Dear Customer,

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

### Safety Precautions

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



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



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



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

### WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 26) on page 4.

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

### NOTE TO CATV INSTALLERS

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

## CHILD SAFETY:

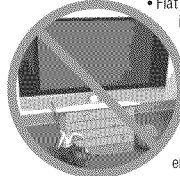
It Makes A Difference How and Where You Use Your Flat Panel Display

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

### The Issue

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

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

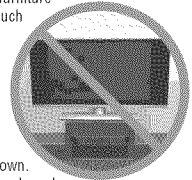


### TOSHIBA Cares!

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

### Tune Into Safety

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



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

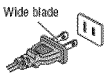
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display,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



[www.CEA.org/safety](http://www.CEA.org/safety)

## Important Safety Instructions

- 1) **Read these instructions.**
  - 2) **Keep these instructions.**
  - 3) **Heed all warnings.**
  - 4) **Follow all instructions.**
- 
- 5) **Do not use this apparatus near water.**
- 
- 6) **Clean only with dry cloth.**
- 
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.
- 
- 8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
- 
- 9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- 10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 
- 11) **Only use attachments/accessories specified by the manufacturer.**
- 
- 12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



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

## Additional Safety Precautions

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

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

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

### 15) CAUTION:

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

### 16) CAUTION:

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

### 17) CAUTION:

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


### 18) WARNING:

- To prevent the spread of fire, keep candles or other open flames away from this product at all times.
- Keep the product away from direct sunlight, fire or a heat source such as a heater. This may reduce the product lifetime or result in fire.
- The mains plug is used as the disconnect device, and therefore install the LED TV/DVD combination near the wall outlet so that the mains plug can be accessed easily at all times.

## Installation, Care, and Service

### Installation

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

- 19)  **WARNING: NEVER expose the batteries to excessive heat such as sunshine, fire, or the like.**

- 20) ALWAYS plug the product into an outlet that is located in such a manner that it can be easily unplugged in case the product requires service.

- 21) NEVER route the product's power cord inside a wall or similar enclosed area.

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

23)  **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!**

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



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

25) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.

26) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

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

- 28) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
- on a bed, sofa, rug, or similar surface;
  - too close to drapes, curtains, or walls; or
  - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.
- The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV.

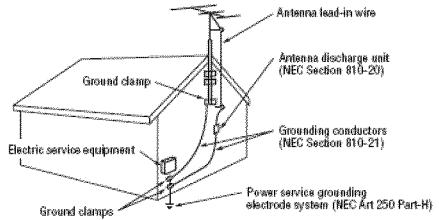
29) Always leave a space of at least 4 (four) inches around the TV. The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.

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

31) Never overload wall outlets and extension cords.

32) Always operate this equipment from a 120V AC, 60Hz power source.

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



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

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

### Care

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

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

36)  **WARNING: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!**

- Never use chemicals (such as air fresheners, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combined effects of chemical agents and mechanical stress (such as the weight of the TV). Failure to follow these instructions could result in serious injury and/or permanent damage to TV and TV pedestal.
- Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.

- 37) Never hit, press, or place anything on the back cover. These actions will damage internal parts.

38)



**WARNING:  
RISK OF ELECTRIC SHOCK!**



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

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

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

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

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

43)



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

Never strike the screen with a sharp or heavy object.

- 44) • The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.
- Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 36), on page 4.

## Service

45)



**WARNING:  
RISK OF ELECTRIC SHOCK!**



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

- 46) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.

- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

## Choosing a location for your LED TV/DVD combination

### To Display your LED TV/DVD combination 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. See item 26) page 4.

### To Display your LED TV/DVD combination using a Wall Bracket:

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

- 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) **IMPORTANT:** Always use the screws supplied or recommended by the wall mount manufacturer.
- 5) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV, as described on page 6.
- 6) VESA Mounting Pattern

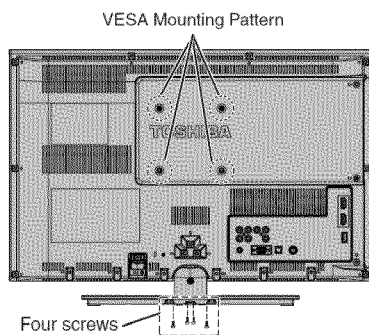
| TV Size  | Hole Pattern (HxV) | Screw Size |
|----------|--------------------|------------|
| 24V4210U | 100x100 mm         | M4         |
| 24V4260U | 100x100 mm         | M4         |

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



**CAUTION:** Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

### Notes on moisture condensation

**Moisture condensation damages the unit. Please read the following carefully.**

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day and drops of water form on the outside of the glass. In the same way, moisture may condense on this unit's internal optical pick-up lens, one of the most crucial internal parts of the unit.

**Moisture condensation may occur in the following situations:**

- When you move the unit from a cold area to a warm area.
- When you use the unit in a room in which the heat was just turned on.
- When you use the unit in an area where cold air from an air conditioner directly hits the unit.
- When you use the unit in a humid area.

**Never use the unit when moisture condensation may occur.**

Using the unit when moisture condensation exists may damage discs and internal parts. Connect the power cord of the unit to the wall outlet, turn on the unit, remove the disc, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Leaving the TV connected to the wall outlet will help prevent moisture condensation in the unit.

### Notes on discs

#### On handling discs

- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs.

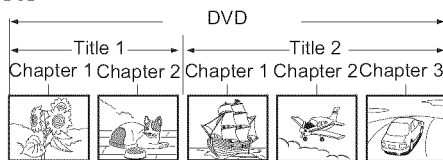
#### On cleaning discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

#### Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. Video CDs and Audio CDs are divided into tracks.

## DVD



## Video CD/Audio CD



Each title, chapter or track is assigned a number, which is called "title number", "chapter number" or "track number" respectively. There may be discs that do not have these numbers

## Notes on copyright

The unauthorized recording, use, distribution, or revision of copyrighted materials including, without limitation, television programs, videotapes, and DVDs, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## About this User's Guide

This User's Guide explains the basic instructions of this LED TV/DVD combination. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the LED TV/DVD combination may not respond to all operating command. This is not a defect of the LED TV/DVD combination. Refer to the instruction notes of discs. The following symbol may appear on the TV screen during operation.



It means that the operation is not permitted by the LED TV/DVD combination or the disc. For example, sometimes it is unable to stop the playback of copyright message of the disc when the Stop button is pressed. Alternatively, this symbol may also indicate that the feature is not available for the disc.

## Notes on region numbers

The region number of this LED TV/DVD combination is 1. If region numbers, which stand for their playable area, are printed on your DVD and you do not find (1) or (2), disc playback will not be allowed by the player. (In this case, the LED TV/DVD combination will display a message on-screen.) Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable.

## On Video CDs

This LED TV/DVD combination supports Video CDs equipped with the Playback Control (PBC) function, version 2.0. You can enjoy two playback variations depending on types of discs.

### • Video CD not equipped with PBC function (Version 1.1)

Sound and movie can be played on this LED TV/DVD combination in the same way as a DVD.

### • Video CD equipped with PBC function (Version 2.0)

In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the on-screen playback menu. Some of the functions described in this User's Guide may not work with some discs.

## Playable discs

This LED TV/DVD combination can play the following discs.

|                | Disc mark | Contents                        | Disc size | Maximum playback time                  |
|----------------|-----------|---------------------------------|-----------|--|
| DVD Video disc |           | Audio + Video (moving pictures) | 12 cm     | Approx. 4 hours (single sided disc)    |
|                |           |                                 |           | Approx. 8 hours (double sided disc)    |
| Video CD       |           | Audio + Video (moving pictures) | 12 cm     | Approx. 74 minutes (single sided disc) |
| Audio CD       |           | Audio                           | 12 cm     | Approx. 74 minutes (single sided disc) |

The following disc are also supported.

- DVD-R/RW discs containing files of DVD format.
  - DVD-R/RW discs containing files of DVD video, MP3, WMA, or JPEG files.
  - Kodak Picture CD and FUJICOLOR CD.
- Some of these disc may be incompatible.

- You cannot play discs other than those listed above.
- You cannot play discs of DVD-RAM, DVD-ROM, CD-ROM, Photo CD, etc., or non-standardized discs even if they may be labeled as above.
- Some DVD-R/RWs and CD-R/RWs cannot be played back depending on the recording conditions.
- This LED TV/DVD combination uses the NTSC color system, and cannot play DVD video discs recorded in any other color system (PAL, SECAM, etc.).
- This DVD Module does not support 8cm Disc.
- Please do not insert any disc of an irregular shape into the LED TV/DVD combination, as it may interfere with the function of the LED TV/DVD combination. You may not be able to remove it.
- Please do not use after market accessories, such as a ring protector, as this may cause trouble with the operation of the LED TV/DVD combination.

Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that this LED TV/DVD combination will successfully play every disc bearing the DVD and CD logos. If you happen to experience any difficulty playing a DVD or CD on this LED TV/DVD combination, please contact Toshiba Customer Service.

**DVD** is a trademark of DVD Format/Logo Licensing Corporation.

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

The **Toshiba 24V4210U/24V4260U LED TV/DVD combinations** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:

Toshiba America Information Systems, Inc.  
9740 Irvine Blvd., Irvine, CA 92618.

Ph: 800-631-3811

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

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

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

## ENERGY STAR® User Information

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

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



ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict guidelines set by the U.S.

Environmental Protection Agency. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.



## Important notes about your TV/DVD combination

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

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

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



### Location of the required Marking

The rating sheet and the safety caution are on the rear of the unit.

**CERTIFICATION:** COMPLIES WITH FDA PERFORMANCE STANDARDS FOR LASER PRODUCTS EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO.50, DATED JUNE 24, 2007.

### CAUTIONS:

- THIS LCD TV / DVD COMBINATION EMPLOYS A LASER SYSTEM.
- TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN IT FOR FUTURE REFERENCE.
- SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.
- USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- TO PREVENT DIRECT EXPOSURE TO LASER BEAM, NEVER OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. NEVER STARE INTO THE BEAM.

## Trademark Information

- CableClear, ColorStream, DynaLight, GameTimer, SurfLock are trademarks or registered trademarks of Toshiba America Information Systems, Inc. and/or Toshiba Corporation.



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



•Audyssey ABX™ technology uses sophisticated driver analysis and low frequency monitoring to extend the range and bass of small speakers. This enables the system to produce lower frequencies than otherwise would be possible.



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



•Manufactured under license from Audyssey Laboratories, Inc. U.S. and foreign patents pending. Audyssey EQ®, Audyssey ABX™, Audyssey Premium Television™, and Audyssey Dynamic Volume® are registered and licensed trademarks of Audyssey Laboratories, Inc.



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

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## **Notice**

The information contained in this manual, including but not limited to any product specifications, is subject to change without notice.

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# Chapter 1

## Introduction

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### Features

The following are just a few of the many exciting features of your new Toshiba wide screen, integrated HD, LED TV/DVD combination:

- ❖ **Integrated Digital Tuning (8VSB ATSC and QAM)**—Eliminates the need for a separate digital converter set-top box (in most cases).
- ❖ **1920 x 1080 output resolution.**
- ❖ **Two HDMI®**—Digital, High-Definition Multimedia Interfaces with 1080p input support, see “Connecting an HDMI® or DVI device to the HDMI® input” on page 31.
- ❖ **ColorStream® HD**—High-resolution component video input, see “Connecting a DVD player with ColorStream® (component video)” on page 29.
- ❖ **Digital Audio Out**—Optical audio connection with Dolby® Digital optical output form, see “Connecting a digital audio system” on page 35.
- ❖ **CableClear®**—Digital picture Noise Reduction, see “CableClear® digital Noise Reduction” on page 116.
- ❖ **PC IN (Analog RGB)**—Computer terminal, see “Connecting a computer to the TV’s PC IN terminal” on page 37.

- ❖ **HDMI® CEC**—Allows control of external devices from the TV remote via HDMI® connection, see “Using HDMI® CEC” on page 108.
- ❖ **Media Player**—Allows you to view photo files and play music, see “Using the Media Player” on page 99.
- ❖ **ENERGY STAR® qualified.**



## Overview of installation, setup, and use

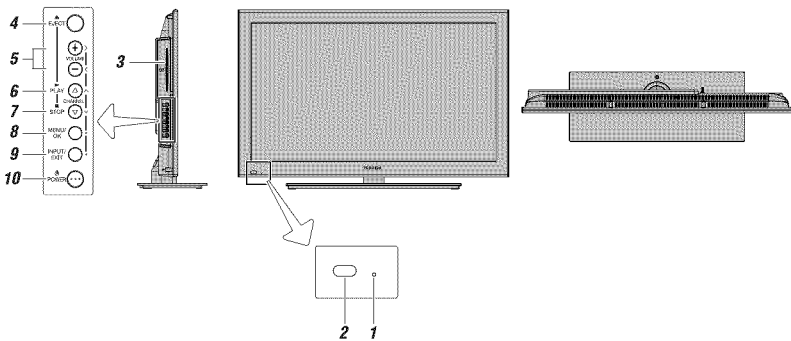
Follow these steps to configure your TV and begin using its many exciting features.

Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.

- 1 To choose a location for the TV:
  - ❖ Read “Important notes about your TV/DVD combination” on page 9.
  - ❖ Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure, see “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.” on page 4.
  - ❖ Place the TV in a location where light does not reflect on the screen.
  - ❖ Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. **THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.**
- 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, see “Overview of cable types” on page 24.
- 4 Connect your other electronic device(s) to the TV, see “Connecting an HDMI® or DVI device to the HDMI® input” on page 31.
- 5 Install the batteries in the remote control, see “Installing batteries” on page 40.

- 6 See “Learning about the remote control” on page 42 for an overview of the buttons on the remote control.
- 7 After connecting all cables and devices, plug in the power cords for your TV and other devices. Then press the Power button on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, unplug the power cords for a few seconds and then plug them in and try again.
- 8 See “Navigating the menu system” on page 48 for a quick overview of navigating the TV’s menu system.
- 9 Program channels into the TV’s channel memory “Auto Tuning” on page 52.
- 10 For details on using the TV’s features, see chapters 8 and 9.
- 11 For details on disc playback, see chapters 8 and 9.
- 12 For help, refer to “Troubleshooting” on page 147.
- 13 For technical specifications and warranty information, see “Specifications” on page 154.
- 14 For the End User License Agreement, see “License Agreement” on page 160.

## TV front, top, and side panel controls and connections



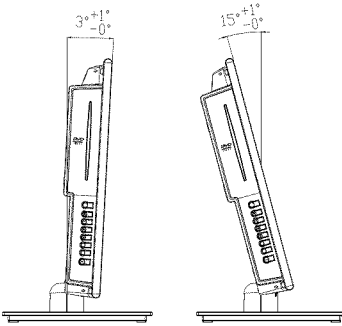
*(Sample Illustration) Front and side panel controls and connections*

- 1 **Power On/Standby LED**—Power indicator light, (glows green when the TV power is On).

- 2 **Remote sensor (embedded)**—Point the remote control toward this remote sensor.
- 3 **Disc slot**—Load the disc, with label facing forward, into the disc slot to view or listen.
- 4 **EJECT button**—Press to eject the disc.
- 5 **VOLUME (+ -) buttons**—Adjusts the volume level. When an on-screen menu appears, these buttons function as (◀/▶) menu navigation buttons.
- 6 **Play (▶)/Channel (▲) arrow) buttons**—Plays the disc in DVD mode; changes the channel when in TV mode.  
(▲) **arrow button**—When an on-screen menu appears, the button functions as an up menu navigation button.
- 7 **Stop (■)/Channel (▼ arrow) buttons**—Stops the disc playback in DVD mode; changes the channel when in TV mode.  
(▼ **arrow) button**—When an on-screen menu appears, the button functions as an up menu navigation button.
- 8 **MENU/OK**—Accesses the menu. When an on-screen menu appears, the **MENU** button on the TV's control panel functions as the **OK** button.
- 9 **INPUT/EXIT**—Changes the source you are viewing. When an on-screen menu appears, the **INPUT** button on the TV's control panel functions as the **EXIT** button.
- 10 **POWER**—Turns 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 few seconds to reset the TV.

## Adjusting the screen angle

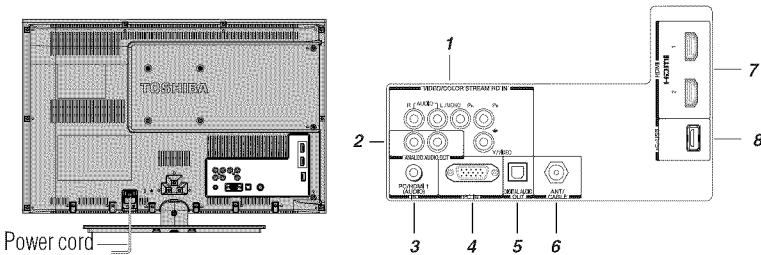
You can adjust the angle of the TV screen 3° forward or 15° backward from a vertical angle. Hold the base of the TV while adjusting the screen. (This feature is available on select models.)



(Sample Illustration) Adjusting the screen angle

## TV back panel connections

For explanations of cable types and connections, see “Overview of cable types” on page 24.



(Sample Illustration) Back panel connections

- 1 ColorStream® HD**—High-resolution component video input and shared composite video input, see “Connecting a DVD player with ColorStream® (component video)” on page 29.

### NOTE

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

- 2 **ANALOG AUDIO OUT**—Analog audio outputs for connecting an audio amplifier.
- 3 **PC/HDMI 1 (Audio) IN**—PC audio input terminal is shared with an HDMI 1 analog audio input terminal, and its use can be configured in the Audio Setup menu, see “Setting the PC Audio” on page 98.
- 4 **PC IN**—Connects a personal computer.
- 5 **DIGITAL AUDIO OUT**—Optical audio output in Dolby<sup>®</sup> Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, or home theater system with optical audio input.
- 6 **ANT/CABLE**—Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.
- 7 **HDMI IN**—High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI<sup>®</sup> device or uncompressed digital video from a DVI device. HDMI<sup>®</sup> connection is necessary to receive 1080p signals.
- 8 **USB port**—Used to access JPEG or MP3 files, or to update the TV’s firmware.

# Chapter 2

## Connecting Your TV

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### Overview of cable types

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

### Coaxial cable (F-type)



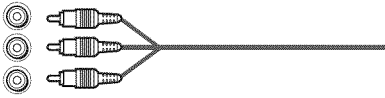
*(Sample Illustration) Coaxial cable*

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



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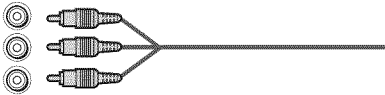
## Standard A/V cables (red/white/yellow)



*(Sample Illustration) Standard AV cables*

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

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



*(Sample Illustration) Component video cables*

Component video cables come in sets of three and connects 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.

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**NOTE** Component video cables provide better picture quality than composite video cables.

---

## HDMI® cable



*(Sample Illustration) HDMI® cable*

Use an HDMI® (High-Definition Multimedia Interface) cable with devices that have HDMI® output. An HDMI® cable delivers digital audio and video in its native format. Separate audio cables are not required, see “Connecting an HDMI® or DVI device to the HDMI® input” on page 31.

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**NOTE** HDMI® cables provide the best audio and picture quality.

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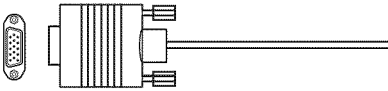
## Optical audio cable



*(Sample Illustration) Optical audio cable*

Optical audio cable connects receivers with Dolby® Digital or PCM (pulse-code modulation) optical audio input to the TV's **Digital Audio Out** terminal, see “Connecting a digital audio system” on page 35.

## Analog RGB (15-pin) computer cable



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

Analog RGB (15-pin) computer cable connects a computer to the TV's **PC IN** terminal, see “Connecting a computer” on page 37.

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**NOTE** Separate audio cables are required.

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## 3.5mm Stereo to RCA Y-cable



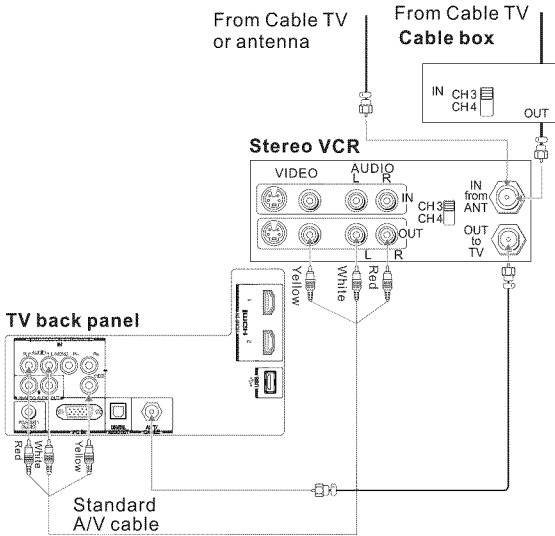
*(Sample Illustration) 3.5mm Stereo to RCA Y-cable*

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

## 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 User's Guide.

## Connecting a VCR, antenna, or cable TV



(Sample Illustration) Connecting to a VCR, antenna, or Cable TV

Items needed:

- ❖ Coaxial cables
- ❖ Standard AV cables

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

### To view the antenna or cable signal:

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

### To view basic and premium cable channels:

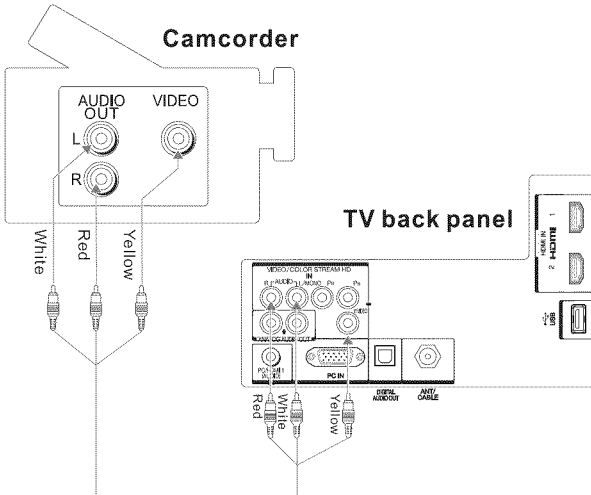
Turn **OFF** the VCR. Select the **ANT/CABLE** video input source on the TV.\* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

### To view the VCR or camcorder video:

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

\*To select the video input source, press the **INPUT** button on the remote control, see "Selecting the video input source" on page 59. To program the TV remote control to operate other devices, see "Learning about the remote control" on page 42.

## Connecting a camcorder



(Sample Illustration) Connecting a camcorder

You will need standard A/V cables.

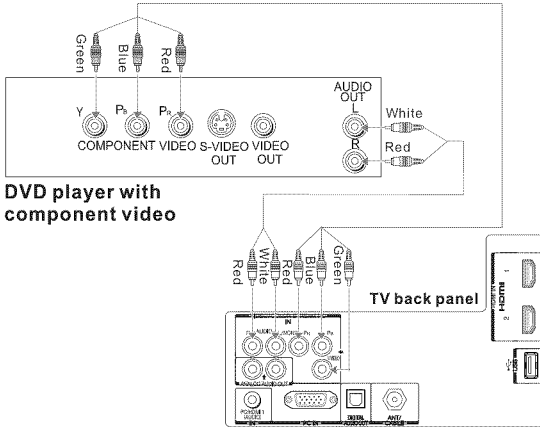
To view the camcorder video, select the **VIDEO** input source on the TV.\*

\*To select the video input source, press the **INPUT** button on the remote control, see “Selecting the video input source” on page 59.

### NOTE

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

## Connecting a DVD player with ColorStream® (component video)



(Sample Illustration) Connecting a DVD player with ColorStream®

Items needed:

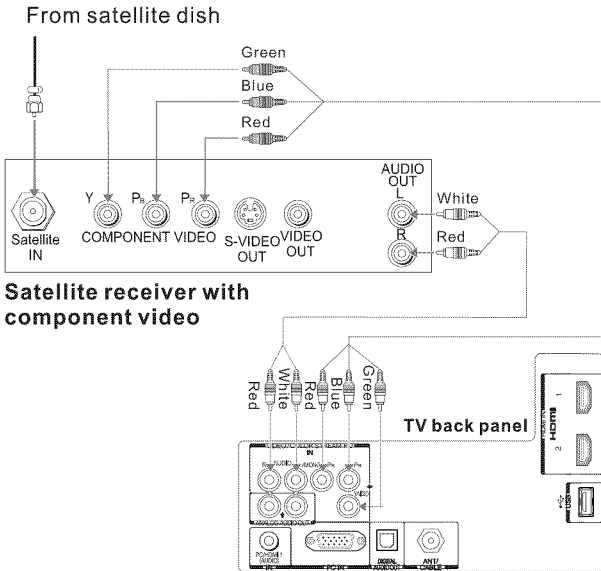
- ❖ Standard audio cables
- ❖ Component video cables
  - ❖ You can connect the component video cables (plus audio cables) from the DVD player to the **COLOR STREAM HD** terminal in the TV. The **COLOR STREAM HD** terminal can be used to display Progressive (480p, 720p) and Interlaced (480i, 1080i). Please note that 1080p is not supported. Check the User's Guide of the DVD player in order to determine the best output signal available.
  - ❖ If your DVD player does not have component video, connect a standard A/V cable to the **AUDIO/VIDEO** terminal. If your DVD player has HDMI® video, see "Overview of installation, setup, and use" on page 19.

### To view the DVD player:

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

\*To select the video input source, press the **INPUT** button on the remote control, see "Selecting the video input source" on page 59.

## Connecting a satellite receiver



(Sample Illustration) Connecting a satellite receiver

Items needed:

- ❖ Standard audio cables
- ❖ Component video cables
- ❖ You can connect the component video cables (plus audio cables) from the DVD player to the **COLOR STREAM HD** terminal in the TV. The **COLOR STREAM HD** terminal can be used to display Progressive (480p, 720p) and Interlaced (480i, 1080i). Please note that 1080p is not supported. Check the User's Guide of the DVD player in order to determine the best output signal available.
- ❖ If your satellite receiver does not have component video, connect a standard A/V cable to the **AUDIO/VIDEO** terminal.

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

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

\*To select the video input source, press the **INPUT** button on the remote control, see "Selecting the video input source" on page 59.

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

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

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

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

The HDMI® input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see “HDMI® signal formats” on page 158.

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

---

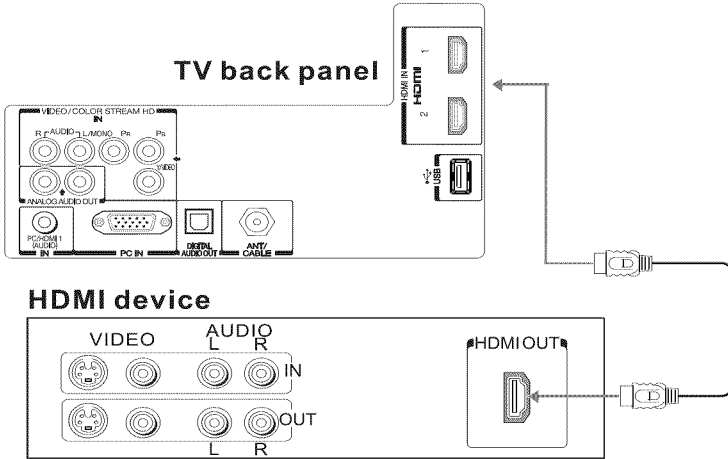
**NOTE** To connect a computer to the HDMI® input, see “Connection to the TV’s HDMI® terminal” on page 39.

---

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

- ❖ For proper operation, it is recommended that you use an HDMI® cable with the HDMI® Logo (**HDMI**).
- ❖ To display an 1080i/60Hz signal format, you will need a High Speed HDMI® cable. A conventional HDMI®/DVI cable may not work properly.

- ❖ HDMI® cables transfer both video and audio. Separate analog audio cables are not required (see illustration).



(Sample Illustration) Connecting an HDMI® device

#### To view the HDMI® device video:

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

\*To select the video input source, press the **INPUT** button on the remote control, see “Selecting the video input source” on page 59.

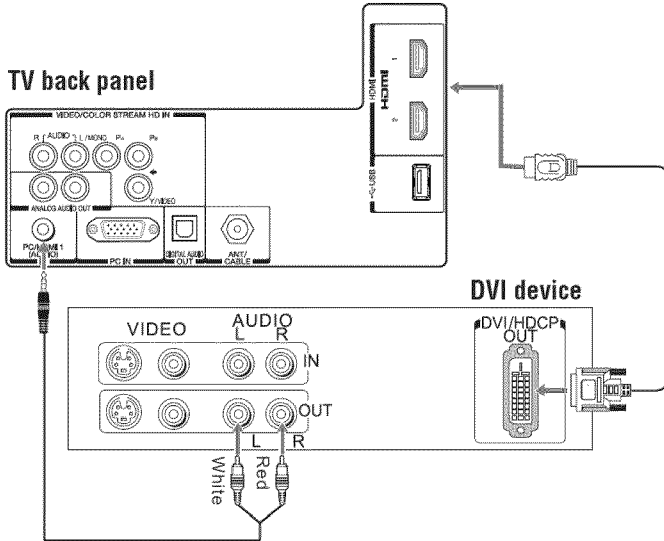
To connect a DVI device, you will need:

- ❖ **HDMI® to DVI adapter cable**  
For proper operation, the length of an HDMI® to DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).



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

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



(Sample Illustration) DVI Device connections

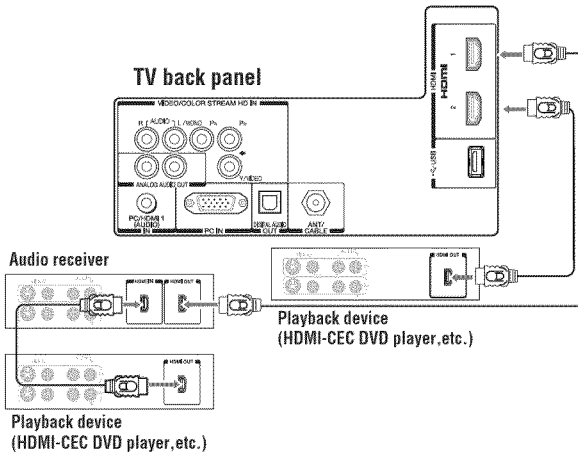
**NOTE** To ensure that the HDMI® or DVI device is reset properly:

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

**NOTE** 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® CEC connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a HDMI® CEC compatible audio receiver or playback device. For an explanation of setup and operations, see "HDMI® CEC playback device (DVD player, etc.) control" on page 108. To connect an HDMI® device, you will need one HDMI® cable (type A connector) per HDMI® device.



(Sample Illustration) HDMI® CEC connections

To connect an Audio Receiver and Playback Devices, you will need HDMI® cables.

- NOTE**
- ❖ If several devices are connected, HDMI® CEC feature may not operate properly.
  - ❖ For proper operation, it is recommended that you use an HDMI® cable with the HDMI® Logo (**HDMI**).

Before controlling the device(s):

- ❖ After completing the above connections, configure the HDMI® CEC Setup menu with the desired settings, see "HDMI® CEC input source selection" on page 110.
- ❖ The connected devices must also be set. For details, see the operation manual for each device.
- ❖ The HDMI® CEC feature uses the CEC technology as regulated by the HDMI® standard.

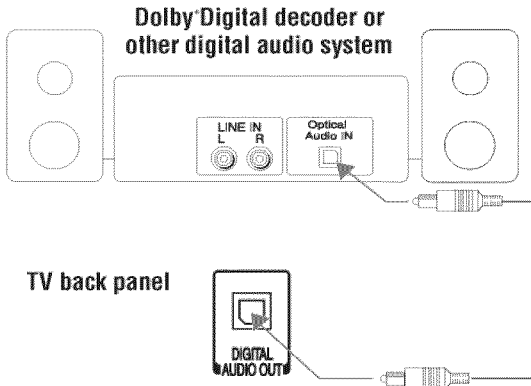
- ❖ This feature is limited to models incorporating Toshiba's HDMI® CEC. However, Toshiba is not liable for those operations. For compatibility information, refer to the individual instruction manuals for your other devices that have CEC technology.

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

## Connecting a digital audio system

The TV's DIGITAL AUDIO OUT terminal outputs a Dolby® Digital\* 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 an Optical audio cable (Use an optical audio cable that has the larger "TosLink" connector and not the smaller "mini-optical" connector.)

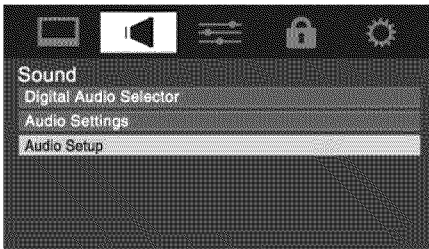


*(Sample Illustration) Connecting a digital audio system*

To control the audio:

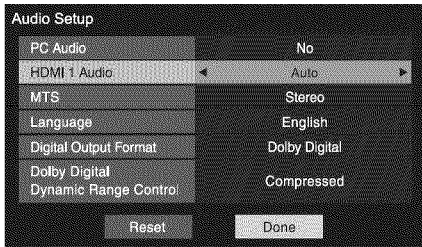
- 1 Turn on the TV and the digital audio device.
- 2 Press the **MENU** button on the remote control and open the **Sound** menu.

- Press the (▲/▼ arrow) buttons to select **Audio Setup**, and then press the **INPUT** button.



(Sample Image) Audio Setup screen

- Press the (▲/▼ arrow) buttons to select **Digital Output Format**.
- Press the (◀/▶ arrow) buttons to select either **Dolby Digital** or **PCM**, depending on your device.



(Sample Image) Audio Setup screen - Done

- To save the new settings, highlight **Done**, and then press the **OK** button.  
To revert to the factory defaults, highlight **Reset**, and then press the **OK** button.

#### 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.



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

To display the optimum picture, use the computer setting feature, see “Using the PC settings feature” on page 97.

- NOTE**
- ❖ The PC audio input terminals on the TV are shared with the HDMI 1 analog audio input terminals. For configuration information, see “Setting the PC Audio” on page 98.
  - ❖ Some computer models cannot be connected to this TV.
  - ❖ If the computer has a compatible mini D-sub15-pin terminal, an adapter is not required.
  - ❖ Depending on the content's title and the computer's specifications, some scenes may be skipped or you may not be able to pause during multi-angle scenes.

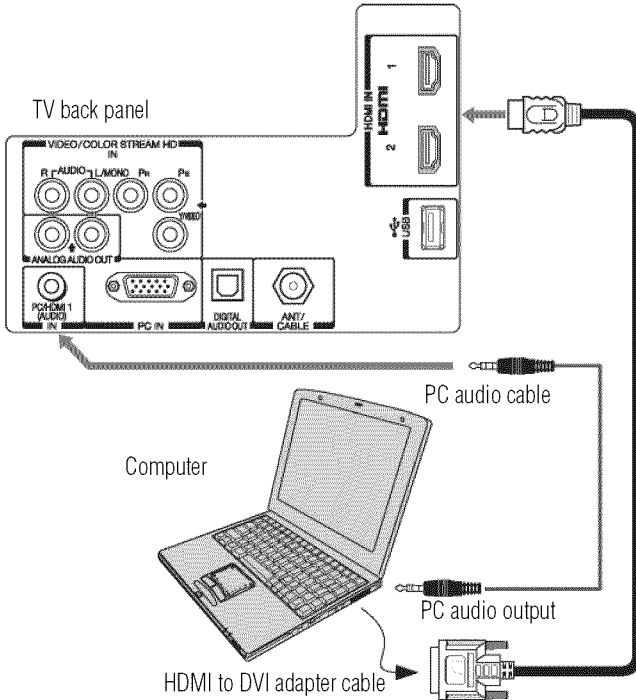
Signal names for mini D-sub 15-pin connector:

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

## Connection to the TV's HDMI® terminal

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

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



(Sample Illustration) Connections to HDMI® terminal

The supported signal formats are VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz). For signal specifications, see “Acceptable signal formats for PC IN, HDMI®” on page 158.

### NOTE

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

# Chapter 3

## Using the Remote Control

---

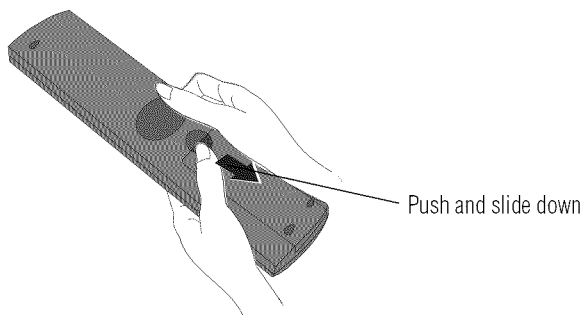
### Using the remote control

The remote control can operate your LED TV/DVD combination and control the basic functions of connected audio/video devices if you connect a HDMI® CEC compatible audio receiver or playback device, see “HDMI® CEC playback device (DVD player, etc.) control” on page 108.

### Installing batteries

To install batteries:

- 1 Open the battery lid at the bottom of remote control.



*(Sample Illustration) Removing the battery cover*



- 2 Insert the batteries, corresponding to the (+) and (-) markings on the battery compartment.



*(Sample Illustration) Installing the batteries*

- 3 Replace the battery cover.

**CAUTION**

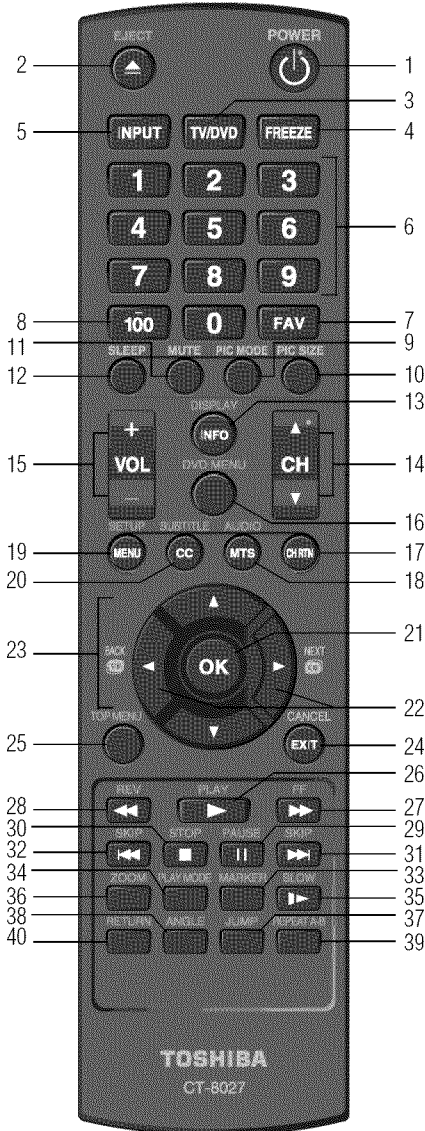
Do not expose batteries to excessive heat such as sunshine, fire, etc.

**NOTE**

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

**Learning about the remote control**

The buttons used for operating the LED TV/DVD combination are described here. For the HDMI® CEC remote control functions, see “HDMI® CEC playback device (DVD player, etc.) control” on page 108.



*(Sample Illustration) Remote control overview*

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

---

- 1 The **POWER** button turns the TV On and Off. When the TV is on, the power LED indicator on the TV front glows green.
- 2 The **EJECT** button ejects the disc from the disc slot.
- 3 The **TV/DVD** button switches between TV and DVD mode.
- 4 The **FREEZE** button freezes the picture. Press again to restore the video, see "Using the FREEZE feature" on page 75.
- 5 The **INPUT** button selects the video input source, see "Selecting the video input source" on page 59.
- 6 The **Channel Number** buttons directly tune channels.
- 7 The **FAV** button accesses the Favorites List in the Channel Browser, see "Favorites browser" on page 64.
- 8 The **Dash/100** button allows you to enter two part channel numbers, see "Tuning to a specific channel (programmed or unprogrammed)" on page 67 or to edit the Favorites List, see "Favorites browser" on page 64.
- 9 The **PIC MODE** button selects the picture mode, see "Selecting the picture mode" on page 76.
- 10 The **PIC SIZE** button cycles through the picture sizes "Selecting the picture size" on page 69.
- 11 The **MUTE** button reduces or turns off the sound, see "Muting the sound" on page 81.
- 12 The **SLEEP** button accesses the sleep timer, see "Setting the sleep timer" on page 106.
- 13 The **DISPLAY/INFO** button displays TV status information as well as program details, when available, see "Displaying TV status information" on page 112.
- 14 The **CH (▲/▼ arrow)** buttons cycle through programmed channels (when no on-screen menu is displayed), see .
- 15 The **VOL (+ -)** buttons adjust the volume level.
- 16 The **DVD MENU** button accesses the DVD menu, see "DVD menu (DVD)" on page 130.

- 17 The **CH RTN** button returns to the last viewed channel or source, see “Switching between two channels using Channel Return” on page 68; Also, the CH RTN button returns to the previous directory from a Media Player sub-folder or sub-menu, see “Viewing photo files” on page 101.
- 18 The **AUDIO/MTS** button selects the audio mode in ANT/CABLE source, see “Using the MTS button” on page 83; selects the DVD sound track language or VCD audio channel in DVD mode, see “Sound track language/Audio channel/Subtitle” on page 131.
- 19 The **SETUP/MENU** button accesses the main TV menu system, see “Navigating the menu system” on page 48; configures the disc playback settings in DVD mode, see “Advanced Disc Playback” on page 124.
- 20 The **SUBTITLE/CC** button selects the subtitle language or switches subtitle off in DVD mode, see “Viewing subtitles (DVD)” on page 131. CC: opens the closed caption selector in ANT/CABLE source.
- 21 The **OK** button activates highlighted items in the main menu system.
- 22 The (◀/▶ arrow) buttons open the Channel Browser and tune to the previous/next channel in the channel history while watching TV, see “Tuning channels using the Channel Browser” on page 63.
- 23 The **Arrow** buttons (▲▼ ◀▶) select or adjust programming menus when a menu is on-screen.
- 24 The **CANCEL/EXIT** button closes on-screen menus, or returns you to the previously view menu.
- 25 The **TOP MENU** button accesses the top menu of DVDs that contain two or more titles, see “Disc playback” on page 119.
- 26 The **PLAY** button begins playback of the loaded disc, see “Playing an audio file” on page 136.
- 27 The **FF** button fast-forwards playback of the disc, see “Playing an audio file” on page 136.
- 28 The **REV** button fast-reverses playback of the disc, see “Playing an audio file” on page 136.
- 29 The **PAUSE** button suspends disc playback temporarily or plays back disc frame by frame, see “Playing an audio file” on page 136.

- 30 The **STOP** button stops playback of the loaded disc, see “Playing an audio file” on page 136.
- 31 The **SKIP** forward button skips forward to locate later DVD chapters, see “Playing an audio file” on page 136.
- 32 The **SKIP** reverse button skips back to locate the beginning of current DVD chapter or locate a previous chapter, see “Playing an audio file” on page 136.
- 33 The **MARKER** button bookmarks specific points in the playback range for later access, see “Bookmarking a scene (DVD/VCD)” on page 127.
- 34 The **PLAY MODE** button sets the disc playback repeat mode, see “Disc playback” on page 119.
- 35 The **SLOW** button slow-forwards playback of the disc, see “Disc playback” on page 119.
- 36 The **ZOOM** button zooms into the center of the image during disc playback, see “Zoom function/Scene navigation” on page 124.
- 37 The **JUMP** button selects or locates a specific point within the disc playback, see “Locating a specific scene” on page 125.
- 38 The **ANGLE** button changes the scene angle when playing back a DVD recorded with multi-angle scenes, see “Changing the scene angle (DVD)” on page 130.
- 39 The **REPEAT A-B** button repeats playback of a specific section between two set points, see “Enabling A-B repeat mode (DVD/VCD/CD)” on page 129.
- 40 The **RETURN** button returns to the root directory in audio CD playback, see “Playing an audio file” on page 136.



# Chapter 4

## Menu Layout and Navigation

### Main menu layout

The Installation menu contains the Terrestrial and System Status menus.

To open the Installation menu, press the **MENU** button on the remote control or **MENU** on the TV control panel, open the Setup menu, select Installation, and then press the **OK** button.


| <i>Icon</i>   | <i>Item</i> | <i>Option</i>          |                                 |
|---|-------------|------------------------|---------------------------------|
|  | Picture     | Mode                   |                                 |
|   |             | Picture Settings       | Opens the Picture Settings menu |
|   |             | Noise Reduction        | Opens the Noise Reduction menu  |
|   |             | Game Mode              | Off/On                          |
|   |             | Theater Settings       | Opens the Theater Settings menu |
|  | Sound       | Digital Audio Selector |                                 |
|   |             | Audio Settings         | Opens the Audio Settings menu   |
|   |             | Audio Setup            | Opens the Audio Setup menu      |

| <i>Icon</i>   | <i>Item</i>              | <i>Option</i>   |
|---|--------------------------|---|
|  | Preferences              | Launches the temporary CC Selector                        |
|   | CC Selector              | Off/CC1/CC2/CC3/CC4/T1/T2/T3/T4                           |
|   | Base CC Mode             | Off/CC1/CC2/CC3/CC4/T1/T2/T3/T4                           |
|   | Digital CC Settings      | Opens the Digital CC Settings menu                        |
|   | Input Labeling           | Opens the Input Labeling menu                             |
|   | AV Input                 | Selects ColorStream® HD/Video input                       |
|   | Menu Language            | English/Français/Español                                  |
|   | Channel Browser Setup    | Opens the Channel Browser Setup menu                      |
|   | HDMI® CEC Player Control | Opens the HDMI® CEC Player Control menu                   |
|  | Energy Saving Settings   | Opens the Energy Saving Settings menu                     |
|   | Locks                    | Enable Rating Blocking Off/On                             |
|   | Enable Rating Blocking   | Off/On  |
|   | Edit Rating Limits       | Opens the Edit Rating Limits menu                         |
|   | Input Lock               | Off/Video/Video+  |
|   | Panel Lock               | Off/On  |
|   | GameTimer®               | Off/30 min/60 min/90 min/120 min                          |
|  | New PIN Code             | Opens the New PIN Code entry screen                       |
|   | Setup                    | Installation Opens the Installation menu                  |
|   | HDMI® CEC Setup          | Opens the HDMI® CEC Setup menu                            |
|   | Sleep Timer              | 10-minute increments, from 0 min to a maximum of 12 hours |
|   | PC Settings              | Opens the PC Settings menu                                |
|   | Media Player             | Opens the Media Player menu                               |

## Menu setup/installation/layout

The Installation menu contains the Terrestrial and System Status menus.

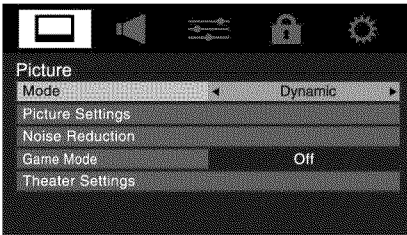
To open the Installation menu, press the **MENU** button on the remote control or **MENU** on the TV control panel, open the Setup menu, select **Installation**, and then press the **OK** button.

| Icon   | Item                | Option   |
|--|---------------------|--|
|  | Input Configuration | Opens the Input Configuration menu                                   |
|  | Channel Program     | Start Scan > Scans for new channels on ANT/CABLE                     |
|  | Channel Options     | Opens the Skip/Lock Channel menu                                     |
|  | Time Zone           | Eastern/Newfoundland/Atlantic/Hawaii/Alaska/Pacific/Mountain/Central |
|  | Signal Meter        | Opens the Signal Meter menu  |
| System Status  | System Information  | Opens the System Information screen                                  |

## Navigating the menu system

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

- 1 Press the **MENU** button to open the menu system.



(Sample Image) Navigating the menu system

- 2 When a menu is open, use the (▲/▼/◀/▶ arrow) buttons on the remote control or the (▲/▼/◀/▶ + - arrow) buttons on the TV control panel to move in the corresponding direction in the menu.
- 3 Press the **OK** button to save your menu settings or select a highlighted item.

A highlighted menu item appears in a different color in the menu.



- 
- 4 All menus close automatically if you do not make a selection within a few seconds, except the signal meter menu, which closes automatically after a few minutes.
  - 5 To close a menu instantly, press the **EXIT** button.
- 

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

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# Chapter 5

## Setting up your TV

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### Initial Setup

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

- 1 In the **Menu Language** field, press the (◀/▶ arrow) buttons.
- 2 Press the (◀/▶ arrow) buttons to select **Time Zone Setup** and set your desired time zone, using the (◀/▶ arrow) buttons, and then press the **OK** button.

The **Location** settings window appears.

- 3 For normal home use, press the (◀/▶ arrow) buttons to select **Home**, and then press the **OK** button.

The **ANT/CABLE** In setup window appears.

- 4 Press the (◀/▶ arrow) buttons to select the input source (**Cable** or **Antenna**), then press the **OK** button.
- 5 Press the **OK** button to select **Start Scan** and continue with the Auto Tuning.

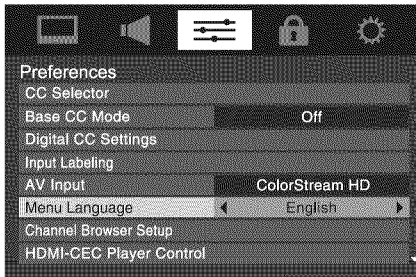
You can stop the Initial Setup by pressing the **EXIT** button. However if you do not finish the entire Initial Setup process and press the **POWER** button before starting the auto tuning steps, the Initial Setup window will appear every time you turn on the TV.

## Menu language

You can choose from three different menu language settings (English, Français, and Español). Your selection is the language all menus are displayed in.

To select the menu language:

- 1 Press the **MENU** button to open the **Preferences** menu, and highlight **Menu Language**.
- 2 Select **Settings**, **SETUP**, and then **Menu Language**.
- 3 Press the (◀/▶ arrow) buttons to select your preferred language.



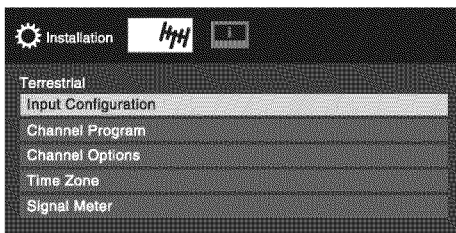
(Sample Image) Selecting the menu language

- 4 Press the **EXIT** button to close the **Preferences** menu.

## ANT/CABLE IN

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

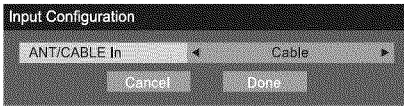
- 1 Press the **MENU** button to open the **Setup** menu.
- 2 Highlight **Installation**, and then press the **OK** button.  
A new set of Installation menus appear.
- 3 Open the Terrestrial menu, highlight **Input Configuration**, and then press the **OK** button.



(Sample Image) Selecting the ANT/CABLE input source

**Setting up your TV***Storing channels in memory (optional)*

- 4 Highlight **ANT/CABLE In** and press the (◀/▶ arrow) buttons to select the input source (**Cable** or **Antenna**).



*(Sample Image) Selecting the ANT/CABLE input source*

- 5 To save your new settings, highlight **Done**, and then press the **OK** button. To revert to your original settings, highlight **Cancel**, and then press the **OK** button.

**Storing channels in memory (optional)**

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

**Auto Tuning**

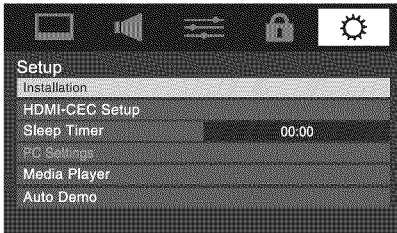
You can configure the TV to detect all active channels in your area and store them in its memory. Then you can manually store or skip individual channels from memory.

- NOTE**
- ❖ You must configure the antenna/cable input source first.
  - ❖ The automatic channel programming process will erase channels that were previously programmed into the TV's memory.
  - ❖ To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
  - ❖ Programming channels when the ANT/CABLE input is configured for Cable will take substantially longer than when the antenna input is configured for Antenna. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.

To program channels automatically:

- 1 Configure the antenna input source, if you have not already done, see "ANT/CABLE IN" on page 51.
- 2 Press the **MENU** button to open the **Setup** menu.

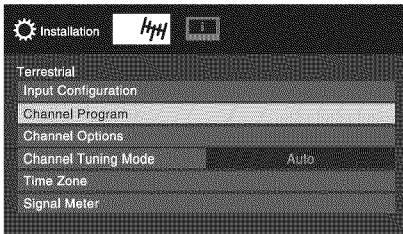
- 3 Highlight **Installation**, and then press the **OK** button.



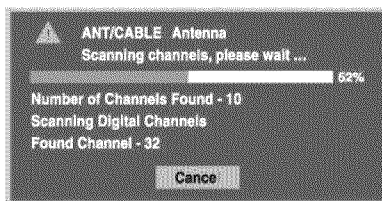
(Sample Image) Auto tuning program channels

A new set of **Installation** menus appear.

- 4 Open the **Terrestrial** menu, highlight **Channel Program** to open the **Start Scan** window, and then press the **OK** button to begin channel programming.



(Sample Image) Terrestrial menu - Channel Program selection



(Sample Image) Auto tuning program channels

The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message “Scanning channels, please wait” appears.

- 5 To cancel channel programming, press the **EXIT** button on the remote control or highlight **Cancel** in the on-screen display, and then press the **OK** button.

When channel programming is complete, press the **CH Up/Down** arrow buttons to view the programmed channels.

## Setting channel skip

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

- 1 From the **Setup** menu, highlight Installation, and then press the **OK** button.
- 2 Press the (**▲/▼** arrow) buttons to select **Channel Options**, and then press the **OK** button.

The list of channels appears.



| Channel Options |         |                          |
|-----------------|---------|--------------------------|
| Ch.             | Type    |                          |
| 1               | Digital | <input type="checkbox"/> |
| 2               | Analog  | <input type="checkbox"/> |
| 3               | Digital | <input type="checkbox"/> |
| 4               | Analog  | <input type="checkbox"/> |
| 5               | Analog  | <input type="checkbox"/> |
| 6               | Analog  | <input type="checkbox"/> |
| 7               | Analog  | <input type="checkbox"/> |
| 8               | Analog  | <input type="checkbox"/> |

*(Sample Illustration) List of channels*

- 3 Press the (**▲/▼** arrow) buttons to select a channel position to be skipped, and then press the **OK** button.

To remove the check, press the **OK** button again.


To add a channel to the channel memory:

Highlight the checked box next to the channel number you wish to add, and then press the **OK** button to remove the check.

To block channels in the channel memory:

**NOTE** You will not be able to tune blocked channels unless you unlock them.

- 1 From the Channel Options menu, press the (**▶** arrow) button to move to the channel lock list.



| Channel Options |         |                          |
|-----------------|---------|--------------------------|
| Ch.             | Type    |                          |
| 1               | Digital | <input type="checkbox"/> |
| 2               | Analog  | <input type="checkbox"/> |
| 3               | Digital | <input type="checkbox"/> |
| 4               | Analog  | <input type="checkbox"/> |
| 5               | Analog  | <input type="checkbox"/> |
| 6               | Analog  | <input type="checkbox"/> |
| 7               | Analog  | <input type="checkbox"/> |
| 8               | Analog  | <input type="checkbox"/> |

*(Sample Illustration) Channel lock list*

- 2 Press the (▲/▼ arrow) buttons to select a channel position to be locked, and then press the **OK** button. Enter your four-digit PIN code.

A check appears in the box. To remove the check, press the **OK** button again.

---

**NOTE** If the PIN code has not been set yet, a warning message appears.

---

- 3 To save the setting, press the **EXIT** button.

To manually add digital sub-channels on a physical channel:

Use the Channel Numbers and the **Dash/100** button on the remote control to enter the channel number (for example, 56-1). If the channel is found, the number will be added to the list and the box will be unchecked.

If the channel is not found, a message appears.

---

**NOTE** Skipped channels cannot be selected with the **CH Up/Down** arrow buttons; however, they can be accessed using the number keys on the remote control.

---

To remove encrypted channels from the channel memory:

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



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

*(Sample Illustration) Removing an encrypted channel*

Press the **1** button while the message is displayed to remove the unnecessary channel from the channel list.

## Setting the HDMI® audio mode

To set the HDMI® audio mode:

- 1 Press the **MENU** button to open the **Sound** menu.
- 2 Highlight **Audio Setup**, and then press the **OK** button.

- Press the (▲/▼ arrow) buttons to select **HDMI 1 Audio**, and then press the (◀/▶ arrow) buttons to select the HDMI 1 audio mode (**Auto**, **Digital**, or **Analog**). (**Auto** is the recommended mode.) See “Connecting an HDMI® or DVI device to the HDMI® input” on page 31.



(Sample Image) HDMI® Audio mode screen

| 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 Audio input. |
| Digital | When viewing the HDMI 1 input, digital audio from the HDMI® input will be output.   |
| Analog  | When viewing the HDMI 1 input, analog audio from the PC Audio input will be output.   |

- To save the setting, highlight **Done**, and then press the **OK** button.

**NOTE** Because the PC and HDMI 1 inputs share the same set of analog audio inputs, the PC Audio menu setting influences the HDMI 1 Audio menu setting. If PC Audio is set to “No” the HDMI 1 Audio menu setting changes to “Auto.” If PC Audio is set to “Yes” the HDMI 1 Audio setting is set to “Digital” and is grayed out in the menu. See “Setting the PC Audio” on page 98.



---

## Viewing the Digital Signal Meter

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

To view the digital signal meter:

- 1 Press the **MENU** button to open the **Setup** menu.
- 2 Highlight **Installation**, and then press the **OK** button.  
A new set of Installation menu icons appear.
- 3 Open the **Terrestrial** menu, highlight **Signal Meter**, and then press the **OK** button.
- 4 Press the (▲/▼/◀/▶ arrow) buttons to select the antenna input and digital channel signal you wish to check.
- 5 If you want detailed information of the presentation channel, highlight **Advanced**, and then press the **OK** button.

---

### NOTE

- ❖ The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.
  - ❖ The signal strength does not change between virtual channels on the same physical channel.
- 

To close the screen and return to the Installation menu:

Highlight **Done**, and then press the **OK** button.

To return to normal viewing, press the **CANCEL** button.

## Setting the time zone

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

- 1 In the **Setup** menu, highlight **Installation**, and then press the **OK** button.
- 2 Highlight **Time Zone**, and then press the **OK** button.
- 3 Press the (◀/▶ arrow) buttons to select the region, highlight **Done**, and then press the **OK** button.

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

To set the Daylight Saving Time status, press the (◀/▶ arrow) buttons to select **Yes** or **No**, highlight **Done**, and then press the **OK** button.

## Viewing the system status

- 1 Press the **MENU** button to open the **Setup** menu.
- 2 Highlight **Installation**, and then press the **OK** button.  
A new set of Installation menu icons appear.
- 3 Open the **System Status** menu, highlight **System Information**, and then press the **OK** button.
- 4 Press the (◀/▶ arrow) buttons to scroll through the menu bar to select **Factory Defaults** or **Support Information**.

The related information appears.

To close the screen and return to the Installation menu highlight **Done** in the Support Information screen or highlight **No** in the Factory Defaults screen, and then press the **OK** button.

To return to normal viewing, press the **CANCEL** button.

## Reset Factory Defaults

- 1 Press the **MENU** button to open the **Setup** menu.
- 2 Highlight **Installation**, and then press the **OK** button.  
A new set of Installation menu icons appear.
- 3 Open the **System Status** menu, highlight **System Information**, and then press the **OK** button.
- 4 Press the (◀/▶ arrow) buttons to scroll through the menu bar to select **Factory Defaults**.
- 5 Highlight **Yes**, and then press the **OK** button.
- 6 If a PIN code have been set, enter your PIN code.
- 7 Press the (◀/▶ arrow) buttons to select **Done**, and then press the **OK** button.

A warning message appears.

- 8 Select **Yes**, and then press the **OK** button.

the TV turns off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.

- 9 To cancel the reset process, select **No**, and press the **OK** button.

# Chapter 6

## Using the TV's features

---

### Selecting the video input source

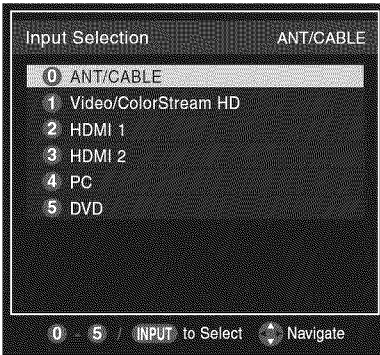
To select the video input source to view:

- 1 Press the **INPUT** button on the remote control or TV control panel.
- 2 Choose from the following options:
  - ❖ Press 0-5.
  - ❖ Repeatedly press the (▲/▼ arrow) buttons on the remote control, and then press the **OK** button to change the input setting.
  - ❖ Repeatedly press the **INPUT** button on the remote control or TV control panel to change the input setting.

## Using the TV's features

### Selecting the video input source

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



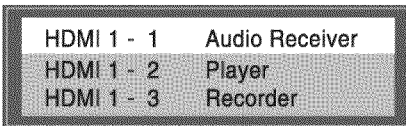
(Sample Image) Input Selection screen

#### NOTE

- ❖ You can label the video input sources according to the specific devices you have connected to the TV, see “Labeling the video input sources” on page 61.
- ❖ Sources can be “hidden,” see “Labeling the video input sources” on page 61.
- ❖ “No video signal” will appear randomly on the screen if no signal is received in video input mode.
- ❖ If CEC device is connected to an HDMI® input, the HDMI® CEC icon appears.

If a HDMI® CEC device with HDMI® switching capability (e.g. Audio Receiver) is connected to the HDMI® input, press the **INPUT** button on the remote control or TV control panel repeatedly to highlight **HDMI 1** or **HDMI 2**.

If the connected CEC device has any connected devices, a separate device selection pop-up window appears:



(Sample Illustration) HDMI® setting pop-up window

---

Press the **INPUT** button repeatedly to highlight the desired input source, and then press the **EXIT** button.

---

- NOTE**
- ❖ When selecting HDMI® CEC input sources from the pop-up window using the INPUT button, some HDMI® CEC devices may automatically turn on.
  - ❖ When selecting input sources using the (▲/▼ arrow) buttons, you will need to press the OK button to actually select a particular device from the pop-up window.
- 

## Labeling the video input sources

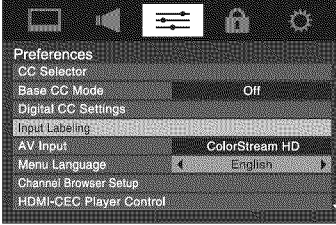
You can label each video input source according to the type of device you have connected to each source. Choose from the following preset list of labels:

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

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

To label the video input sources:

- 1 Press the **MENU** button to open the **Preferences** menu.
- 2 Highlight **Input Labeling**, and then press the **OK** button.



(Sample Image) Input Labeling screen

- 3 Press the (**▲/▼** arrow) buttons to highlight the video source you wish to label.
- 4 Press the (**◀/▶** arrow) buttons to select the desired label for that input source. If a particular input is not used, **Hide** can be selected as the label. This will cause that input to be “grayed out” in the Input Selection screen and skipped over when you press the **INPUT** button on the remote control.

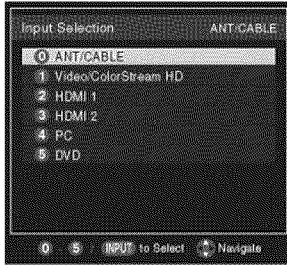


(Sample Image) Input Labeling screen - Done

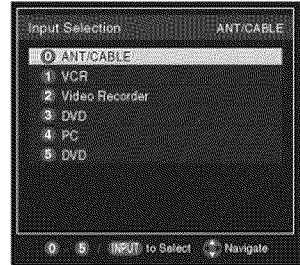
- 5 To save the new input labels, highlight **Done**, and then press the **OK** button.

Input labeling example:

The screen below left shows the default Input Selection screen (with none of the inputs labeled as a specific device). The screen below (right) is an example of how you can label the inputs if you connected a VCR to ColorStream® HD, a video recorder to HDMI 1, and a DVD player to HDMI 2.



No inputs labeled



All inputs labeled

*(Sample Image) Input selection screens*

To clear the input labels:

- 1 Press the **MENU** button to open the **Preferences** menu.
- 2 Highlight **Input Labeling**, and then press the **OK** button.
- 3 Highlight **Reset**, and then press the **OK** button.

## 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” on page 64.
- ❖ Quickly surf and tune your recently viewed channels/inputs from the Channel Browser History List.
- ❖ 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 HDMI® CEC devices from the HDMI® CEC List.

## Favorites browser

The Favorites Browser allows you to quickly configure 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 the **FAV** button for a few seconds.

---

**NOTE** The channel or input is added to the beginning of the Favorites list on the left side of the Channel Browser.

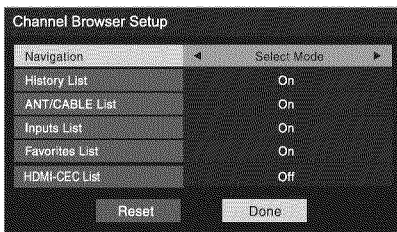
---

To delete a favorite channel/input:

- 1 Press the **FAV** button to open the Favorites browser list.
- 2 Highlight the channel or input to delete by pressing the **BACK CB/NEXT CB** buttons.
- 3 Press and hold the **Dash/100** button for a few seconds. The channel/input will be removed from the Favorites list.

To configure the Channel Browser:

- 1 In the Preferences menu, highlight **Channel Browser Setup**, and then press the **OK** button.
- 2 Press the (**▲** arrow) button to highlight **Navigation**, and then press the (**◀/▶** arrow) buttons to select either **Browse Mode** or **Select Mode**.



(Sample Image) Browser mode screen

- 3 Press the (**▼** arrow) button to highlight **History List**, and then press the (**◀/▶** arrow) buttons to select **On/Off**.

---

**NOTE** The History List will be cleared every time the TV is powered off.

---

- 4 Press the (**▼** arrow) button to highlight **ANT/CABLE List**, and then press the (**◀/▶** arrow) buttons to select **On/Off**.



*Tuning channels using the Channel Browser*

- 5 Press the (▼ arrow) button to highlight **Inputs List**, and then press the (◀/▶ arrow) buttons to select **On/Off**.
- 6 Press the (▼ arrow) button to highlight **Favorites List**, and then press the (◀/▶ arrow) buttons to select **On/Off**.
- 7 Press the (▼ arrow) button to highlight **HDMI® CEC List**, and then press the (◀/▶ arrow) buttons to select **On/Off**.

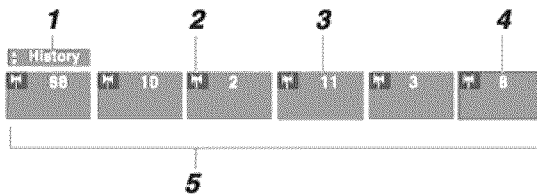
**NOTE** HDMI® CEC List is automatically grayed out and set to Off when Enable HDMI® CEC is switched to Off. See "Using HDMI® CEC" on page 108.

- 8 To save the new entries, highlight **Done**, and then press the **OK** button. To return to factory defaults, highlight **Reset**, and then press the **OK** button.

To open the Channel Browser:

- ❖ Press the **BACK CB/NEXT CB** buttons on the remote control.
- ❖ Press the (◀ arrow) button to surf backward through the previously tuned channels in the History list, the channels in the ANT/ CABLE channel list, the inputs in the Inputs list, the favorite channels/inputs in the Favorites list, or the HDMI® CEC devices in the HDMI® CEC List.
- ❖ Press the (▶ arrow) button to surf forward through the channel History, the ANT/CABLE channel list, the Inputs list, the favorite channels/inputs in the Favorites list, or the HDMI® CEC List.

## Elements of the Channel Browser



(Sample Illustration) Channel Browser elements

- 1 Current list (**History**, **ANT/CABLE**, **Inputs**, **Favorites**, or **HDMI® CEC**)
- 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

To toggle among the available lists:

After opening the Channel Browser, press the (▲/▼ arrow) buttons to toggle through the **History**, **ANT/CABLE**, **Inputs**, **Favorites**, or **HDMI® CEC** options.

---

- 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 the **BACK CB/NEXT CB** buttons or the **FAV** button will not display the Channel Browser. If Favorites List is turned off, the **FAV** button will have no effect.
  - ❖ Pressing the **FAV** button will display 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 the **BACK CB/NEXT CB** buttons to display 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 is highlighted and the TV automatically tunes to the channel or input.
- 2 Press the **EXIT** button to close the Channel Browser.

To tune to a channel or input in Select mode:

- 1 While watching TV, press the **BACK CB/NEXT CB** buttons to display the Channel Browser and surf back to a previous item or surf forward to the next item in the list. In Select mode, when you stop on an item in the Channel Browser, it is highlighted, but you must press the **OK** button to tune the TV to the highlighted item.
- 2 Press the **OK** button to tune the TV to the highlighted item.
- 3 Press the **EXIT** button 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 the **BACK CB** button to surf backward through the previously tuned channels/inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser.

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 using the **CH Up/Down** buttons 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.
- ❖ Turning off the TV will clear the History List.

## Tuning channels

To tune to the next programmed channel, use the **CH Up/Down** buttons on the remote control or TV control panel.

### Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:

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

Tuning digital channels:

Press the Channel Number (0–9) buttons on the remote control, followed by the **Dash/100** button, and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, -, 1, and then press the **OK** button.

## Tuning to the next programmed channel

Tuning analog channels:

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

Tuning digital channels:

Press the Channel Number (0–9) buttons on the remote control, followed by the **Dash/100** button, and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, –, 1, and then press the **OK** button.

---

**NOTE** If a digital channel is not programmed, either through the automatic channel scan or the Channel add function, see “Auto Tuning” on page 52, you will have to tune the RF channel using the Channel Numbers and the Dash/100 button on the remote control.

---

## Switching between two channels using Channel Return

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

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

**NOTE** If you press the CH RTN button 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 the **CH RTN** button.

To memorize a channel to the **CH RTN** button:

- 1 Tune the TV to the channel you wish to program into the **CH RTN** button.

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

The TV will return to the memorized channel one time only. Once you press the **CH RTN** button 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 several 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) depends on the format of the signal you are currently watching. Select the picture size that displays the current program in 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:

- 1 Press the **MENU** button on the remote.
- 2 With the Picture Size menu is displayed, do one of the following:
  - ❖ Repeatedly press the **PIC SIZE** button.
  - ❖ Press the corresponding number button (0-5) while the Picture Size menu is displayed.
  - ❖ Press the (**▲/▼** arrow) buttons while the Picture Size menu is displayed.

---

**NOTE** 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.

---

To select the picture size using the menus:

- 1 Select Picture Size in the Theater Settings menu.
- 2 Press the (◀/▶ arrow) buttons to select the desired picture size setting.
- 3 Highlight **Done**, and then press the **OK** button.

---

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

---



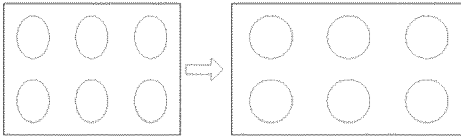
---

**NOTE** If you select a TheaterWide® picture size, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view these edges, adjust the Picture Position or try viewing the program in 4:3 or Full, see "Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)" on page 73.

---

## Full

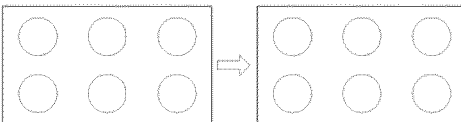
This setting is for viewing in the 16:9 (480i, 480p) source programs only.



(Sample Illustration) Picture size - Full 16:9

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

This setting is for viewing in the 1080i, 1080p, and 720p program source.

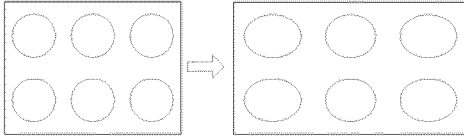


(Sample Illustration) Picture size - Full

The edges of the picture may be hidden.

## TheaterWide 1

This setting is for viewing in 4:3 format programs.

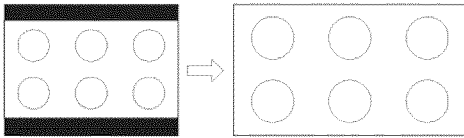


*(Sample Illustration) Picture size - TheaterWide 1*

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

## TheaterWide 2

This setting is for viewing letter box programs.

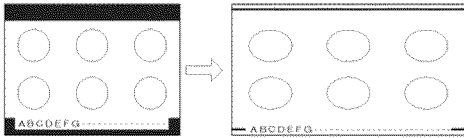


*(Sample Illustration) Picture size - TheaterWide 2, letter box*

The picture's top and bottom edges may be hidden\*.

## TheaterWide 3

This setting is for viewing letter box programs with subtitles.

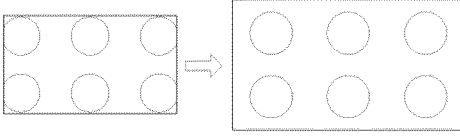


*(Sample Illustration) Picture size - TheaterWide 3, letter box with subtitles*

The picture's top and bottom edges are hidden\*.

## Native

These settings are for viewing in 480i (HDMI®), 480p (HDMI®), 720p, 1080i, and 1080p signal programs).



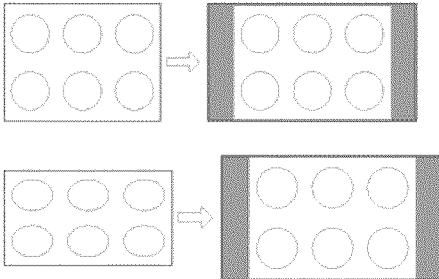
*(Sample Illustration) Picture size - Native*

- ❖ If receiving a 1080i, 1080p, 720p, 480i (HDMI®), or 480p (HDMI®) signal program, the video is scaled to display the entire picture within the borders of the screen (i.e. no over-scanning).
- ❖ This is especially useful for external HD sources such as DVHS movies, Video Games, or computer 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 signal, the picture's border may be hidden, displayed in black, or noisy.

## 4:3



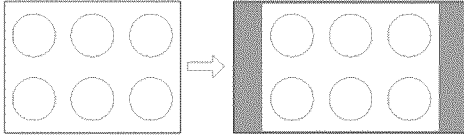
*(Sample Illustration) Picture size - 4:3*

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



*Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)***Normal**

This setting is for viewing VGA, SVGA, XGA, WXGA, and SXGA sources.

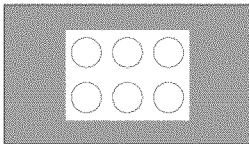


*(Sample Illustration) Picture size - Normal*

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

**Dot by Dot**

This setting is for viewing VGA, SVGA, XGA, WXGA, and SXGA sources.



*(Sample Illustration) Picture size - Dot by Dot*

“Dot by Dot” is a non-scaling display. Depending on the input signal format, the picture appears with sidebars and/or bars at the top and bottom, for example, VGA input source).

\* To view the hidden areas (such as subtitles or captions), see “Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)” on page 73.

## **Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)**

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

To set the scroll settings:

- 1 Press the **MENU** button and open the **Picture** menu.

- 2 Highlight **Theater Settings**, and then press the **OK** button.



(Sample Image) Theater settings screen

- 3 In the Picture Size field, select either **TheaterWide 2** or **TheaterWide 3**

**NOTE** You cannot scroll in any other mode.

- 4 Press the (▼ arrow) button to select the **Picture Scroll** field.
- 5 Press the (◀/▶ arrow) buttons to scroll the picture up and down as needed.
- 6 To save the new settings, highlight **Done**, and then press the **OK** button. To revert to the factory defaults, highlight **Reset** and then press the **OK** button.

The adjustment range is from **-5** to **+10**.

## Using the Auto Aspect feature

When this 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 ColorStream® HD or Video input
- ❖ 480i, 480p, 720p, 1080i, 1080p, or VGA (60Hz) signal from the HDMI® 1/2 input

| <i>Aspect Ratio of Signal Source</i> | <i>Automatic Aspect Size (automatically selected when Auto Aspect is On)</i> |
|--------------------------------------|--|
| 4:3 Normal                           | 4:3  |
| 4:3 Letter Box                       | TheaterWide 2  |
| 16:9 Full                            | Full   |

---

|   |  |
|---|--|
| <i>Aspect Ratio of Signal Source</i>            | <i>Automatic Aspect Size (automatically selected when Auto Aspect is On)</i>         |
| Not defined (no ID-1 data or HDMI® aspect data) | The current picture size you set under, see "Selecting the picture size" on page 69. |

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**NOTE** The auto aspect ratio feature is not applicable to the PC input.

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To turn on the auto aspect ratio feature:

- 1 Press the **MENU** button and open the **Picture** menu.
- 2 Highlight **Theater Settings**, and then press the **OK** button.
- 3 To save the new settings, highlight **Done**, and then press the **OK** button. To revert to the factory defaults, highlight **Reset** and then press the **OK** button.

To turn off the Auto Aspect ratio feature, Select **Off** in step 3 above.

## Selecting the cinema mode

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

To set the Cinema Mode to Film:  
(available for 480i and 1080i signals)

- 1 Press the **MENU** button and open the **Picture** menu.
- 2 Highlight **Picture Settings**, and then press the **OK** button.
- 3 Highlight **Advanced Picture Settings**, and then press the **OK** button.
- 4 In the **Cinema Mode** field, select **Film**.
- 5 To set Cinema Mode to Video, Select **Video** in Step 4 above.

## Using the FREEZE feature

To use the FREEZE feature:

- 1 When watching the TV, press the **FREEZE** button to freeze the picture.
- 2 To unfreeze the picture, press the **FREEZE** button again (or any other button).

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**NOTE** 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.

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**NOTE** If the TV is left in FREEZE mode for more than 15 minutes, the FREEZE mode will automatically release and the TV returns to normal video.

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## Adjusting the picture

### Selecting the picture mode

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

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| <i>Mode:</i> | <i>Description:</i>                                |
|--------------|--|
| Dynamic      | Bright and dynamic picture (factory setting)       |
| Standard     | Standard picture settings (factory setting)        |
| Movie        | Lower contrast for darkened room (factory setting) |
| PC           | Designed for viewing of PC tables and documents    |
| Preference   | Your personal preferences                          |

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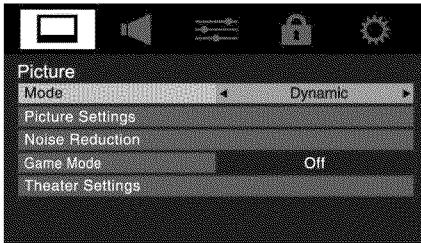
**NOTE** PC mode is available for HDMI® and PC inputs only (other input sources are grayed out).

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To select the picture mode using the menu system:

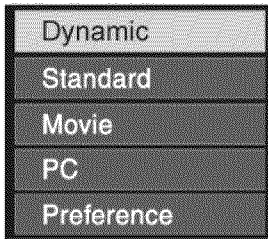
- 1 Press the **MENU** button and open the **Picture** menu.

- 2 Highlight **Mode**, and then press the **OK** button.



(Sample Image) Mode screen

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



(Sample Image) Mode selections screen

## Adjusting the picture quality

You can adjust the picture quality (Contrast, Backlight, DynaLight™, Brightness, Color, Tint, and Sharpness.) to your personal preferences.

| <i>Selection</i> | <i>Pressing (◀)</i> | <i>Pressing (▶)</i> |
|------------------|---------------------|---------------------|
| Contrast         | lower               | higher              |
| Backlight*       | darker              | lighter             |
| DynaLight®**     | On/Off              | On/Off              |
| Brightness       | darker              | lighter             |
| Color            | paler               | deeper              |
| Tint             | reddish             | greenish            |
| Sharpness        | softer              | sharper             |

\* **Backlight:** Adjusts the brightness of the entire screen. When in video mode and no signal is input, this selection is automatically set to 0. (Settings are stored in memory.)

\*\*DynaLight®: This function automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

To adjust the picture quality:

- 1 Press the **MENU** button and open the **Picture** menu.
- 2 Highlight **Picture Settings**, and then press the **OK** button.
- 3 Press the (▲/▼ arrow) buttons to select the picture quality you wish to adjust (Contrast, Backlight, DynaLight, Brightness, Color, Tint, or Sharpness), and then press the (◀/▶ arrow) buttons to adjust the setting.
- 4 To save the new settings, highlight **Done**, and then press the **OK** button. You can use any of the picture modes, see “Selecting the picture mode” on page 76, as a starting point for adjusting the picture settings. To revert back to the base mode that you began adjusting the picture settings from, highlight **Reset**, and then press the **OK** button.

The picture qualities you adjusted are automatically saved in the Preference mode, see “Selecting the picture mode” on page 76 until **Reset** is selected.

## Using closed captions

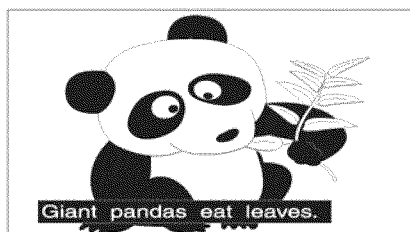
Closed caption mode has two options:

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

To view captions or text:

- 1 Press the **MENU** button to open the **Preferences** menu, and then highlight **Base CC Mode**.
- 2 Press the (◀/▶ arrow) buttons to select the desired closed caption mode, and then press the **OK** button.

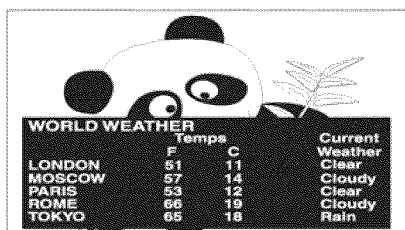
To view captions, highlight **CC1**, **CC2**, **CC3**, or **CC4**.  
(CC1 displays translation of the primary language in your area.)



*(Sample Illustration) Viewing captions*

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

To view text, highlight **T1**, **T2**, **T3**, or **T4**.



*(Sample Illustration) Captions - text*

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

To turn off closed caption mode, select **Off** in step 2 above.

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

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