

# TOSHIBA

Leading Innovation >>>

# OWNER'S MANUAL

## Integrated Digital LCD TV



**23HL900A**  
**32EL900A**  
**42HL900A**  
**46HL900A**

### Owner's Record

You will find the model number and serial number on the back of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Model number:

Serial number:

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# Introduction

## Welcome to Toshiba

- Thank you for purchasing this Toshiba LCD Colour Television. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control and not the buttons on the television.
- Please read all safety and operating instructions in this manual carefully, and keep the manual for future reference.

## Important Safety Instructions

Be sure to observe the following instructions and precautions to ensure safe use of this TV.

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

### Installation

- 1) Always connect the power plug to an appropriate electrical outlet equipped with 220-240V, AC 50Hz.**  
Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.
- 2) Never insert or remove the power plug with wet hands.**  
This may cause an electric shock.
- 3) Never place the TV in an unstable location such as on a shaky table, incline or location subject to vibration.**  
The TV may drop or fall off which may cause an injury or damage.
- 4) Never block or cover the slots and openings in the cabinet.**
  - Never place the TV so that it is facing upward or on its side.
  - Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
  - Never drape a newspaper, tablecloth or curtain on the TV.
  - When installing the TV against a wall, always keep the TV at least 10cm away from the wall.
  - Never place the TV on a soft unstable surface, such as a carpet, or a cushion.

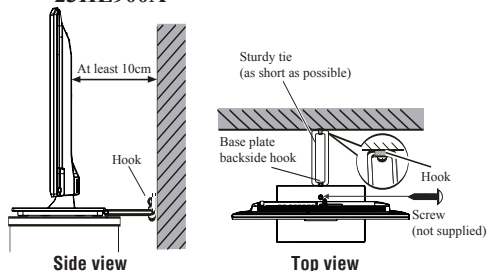
The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.
- 5) Never place the TV near a heater or in direct sunlight.**  
The surface of the cabinet or power cord may melt and result in a fire or an electric shock.
- 6) Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.**  
This may cause a fire or an electric shock.

- 7) Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.**

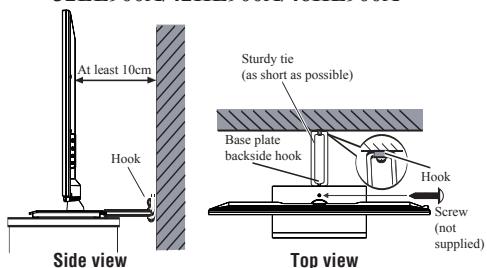
This may cause a fire or an electric shock.

- 8) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.**  
To secure the TV, use a sturdy strap from the base plate backside hook to a wall stud, pillar, or other firm immovable structure. Make sure the strap is tight, secure, and parallel to the floor.

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Wall mounting of the TV should only be performed by qualified serving personnel. Use only with the wall bracket specified by the manufacturer.

- 1** Panhead Screw: advised
  - 2** Roundhead screw: a washer is required
  - 3** **4** Flathead screw: can not be used
- The screw type is dependent on the actual mounting surface. The metric thread size is 3.8-4.1mm
- Place the stand on a stable, level surface and secure the TV set by using a single screw (not supplied) through the fall prevention screw hole.
- Make sure to secure your TV set to a firm and adequately thick surface.

**\*Stand style is dependent on model**

---

## 9) Precautions for moving the TV

When moving the TV, be sure to remove the plug from the wall outlet and disconnect the antenna and audio/video cables, as well as any steady ties.

Fire or electric shock may result if the power cord is damaged.

When carry the TV, at least two people are needed. Be sure to carry it upright.

Never carry the TV with the screen facing up or down.

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## 10) Precautions for installing an outdoor antenna

An outside antenna system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.

If the antenna falls down or drop, it may cause injury or electric shock.

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## Use

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### 1) Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.

High temperature can melt plastic and lead to fires.

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

When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock. If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.

---

### 3) Never insert objects (metal or paper) or pour water inside the TV through ventilation holes or other openings.

These items may cause a fire or an electric shock. If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be specially careful that children do not insert objects in the TV.

---

### 4) Never stand or climb on the TV.

Be specially careful in households with children to prevent them from climbing on top of the TV. It may move, fall over, break, become damaged or cause an injury.

---

### 5) When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet for safety.

- The TV is not completely disconnected from the power supply line, as minute current is consumed even when the power switch is turned off.
- The mains plug or an appliance coupler is used as the

disconnect device, therefore the disconnect device shall remain readily operable.

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### 6) Never pull on the power cord when removing the plug from the wall outlet.

Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.

---

### 7) Never cut, break, modify, twist, bunch up or bend the cord or apply excessive force or tension to it.

Never place heavy objects on the power cord or allow it to overheat as this may cause damage, a fire or an electric shock. Contact a service technician if the power cord is damaged.

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### 8) If there is thunder or lightning, never touch the antenna cable or other connected cables.

You may suffer an electric shock.

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## Service

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### 1) Never repair, modify or disassemble the TV by yourself.

It may cause a fire or an electric shock. Consult a service technician for inspection and repair.

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### 2) When a malfunction occurs, or if smoke or an unusual odour comes from the TV, turn off the TV and remove the power plug from the outlet immediately.

Make sure that the smoke or smell has disappeared, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.

---

### 3) If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.

If the TV is still used in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury. Contact a service technician for inspection and repair.

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### 4) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.

**Note:**  
*The lamp unit contains a small amount of mercury. Disposal of mercury may be regulated due to environmental considerations. Dispose of the used lamp unit by the approved method for your area. For disposal or recycling information, please contact your local authorities.*

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## Cleaning

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Avoid using chemicals (such as air refreshers, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combination effects of chemical agents and mechanical stress (such as weight of TV). Failure to follow these instructions could result in serious injury and/or permanent damage to TV and TV pedestal.

### 1) Remove the power plug before cleaning.

Never use solvents such as gasoline or thinner to clean the TV.

- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

If the cabinet becomes dirty, clean it with a soft, dry cloth. When cleaning the surface of the LCD screen, wipe the panel surface gently with a soft, dry cloth.

### 2) Periodically disconnect the power plug from the outlet and check it.

If dust has collected on the power plug connectors, clean off the dust with a dry cloth.

The dust may cause a fire due to reduced insulation on the plug.

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## Important information

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**If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:**

- Using stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the television on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

Place the TV on a stable, level surface that can support the weight of the TV. In order to maintain stability and prevent it falling over, secure the TV to the level surface using the strap located under the table top stand, or, to a wall using a sturdy tie to the clip on the back of the table top stand.

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### 1) About LCD screen

- If you have the LCD screen facing to the sun, the LCD screen will be damaged.
- Be aware of locating the TV in the place such as window side or outside of the room.

### 2) About cabinet and LCD screen

Never spray volatile compounds such as insecticide on the cabinet and LCD screen.

This may cause a discolouration or damage the cabinet and LCD screen.

### 3) Some pixels of the screen do not light up

The LCD display panel is manufactured using an extremely high level of precision technology, however, sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

**Note:** Interactive video games that involve shooting a “gun” type of joystick at an onscreen target may not work with this TV.

### 4) About interference

The LCD display may cause interference in image, sound etc. of other electronic equipment that receives electromagnetic waves (e.g. AM radios and video equipment.)

### 5) About using under low temperature places

If you use the TV in a room of 0°C or less, the picture brightness may vary until the LCD display warms up. This is not a sign of a malfunction.

### 6) About afterimage

If a still picture is displayed, an afterimage may remain on the screen, however, it will disappear soon. This is not a sign of malfunction.

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## Exemptions

- Toshiba is not liable for any damage caused by fires, natural disaster (such as thunder, earthquake, etc.), acts by third parties, accidents, owner's misuse, or uses in other improper conditions.
- Toshiba is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of product.
- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.
- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

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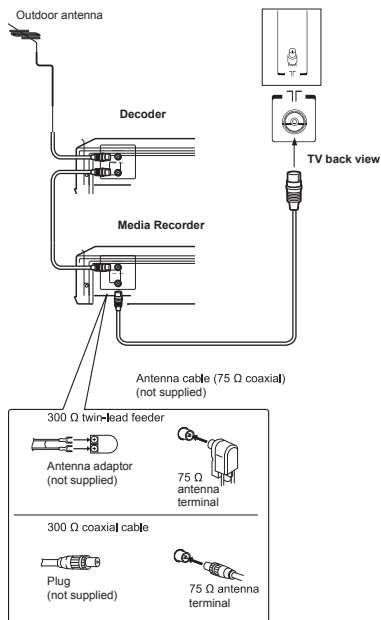
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## Getting started

### Connecting an antenna

Optimum reception of colour requires a good signal and will generally mean that an outdoor antenna must be used. The exact type and positioning of the antenna will depend upon your particular area. Your Toshiba dealer or service personnel can best advise you on which antenna to use in your area. Before connecting the antenna cable, turn off all main power switches.

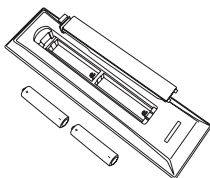


### Exploring your new TV

#### Installing the remote control batteries

Remove the battery cover.

Insert two AAA, 1.5V batteries matching the  $-/+$  polarities of the battery to the  $-/+$  marks inside the battery compartment.



#### Cautions:

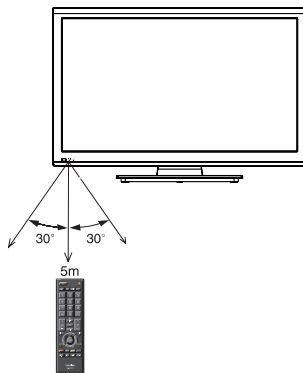
- *Dispose of batteries in a designated disposal area. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.*
- *Attention should be drawn to the environmental aspects of battery disposal.*
- *Never mix battery types or combine used batteries with new ones.*

#### Notes:

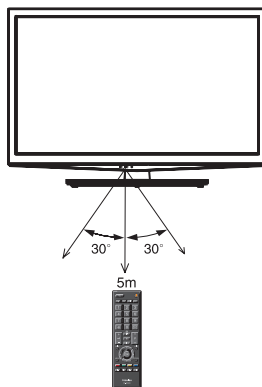
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.*
- *If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.*

### Effective range

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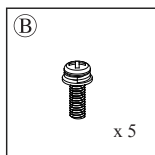
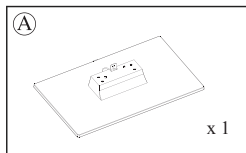
#### 32EL900A/42HL900A/46HL900A



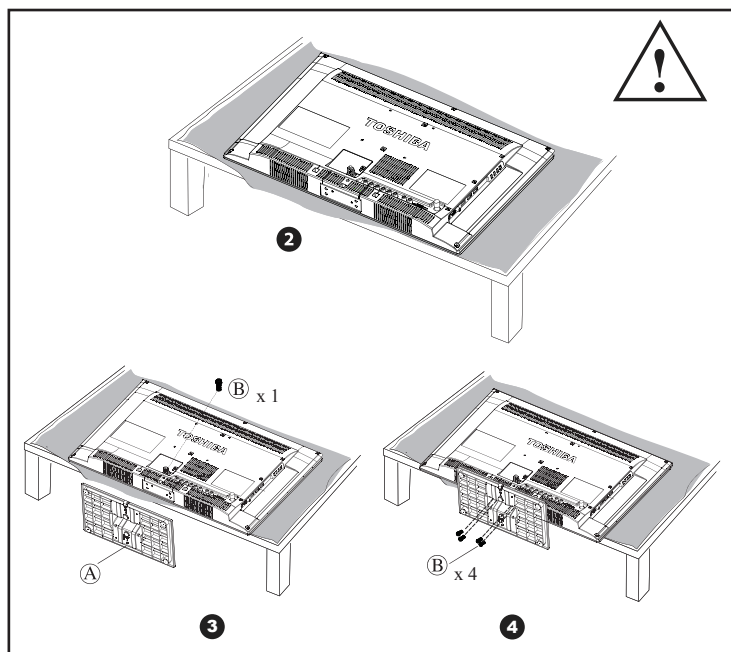
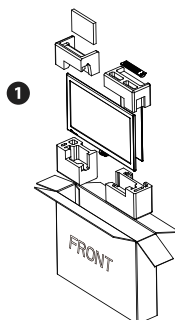
## Stand assembly instructions

### 23HL900A

Parts included in box



Please take out parts according to the instruction printed on the box



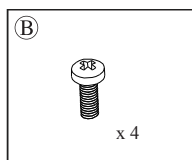
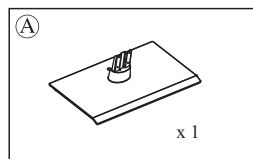
**CAUTION:** Before beginning pedestal assembly, carefully lay the front of the LCD panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble as indicated above. Avoid using chemicals on or near TV pedestal or serious injury could result.

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

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

## 32EL900A/42HL900A/46HL900A

Parts included in box

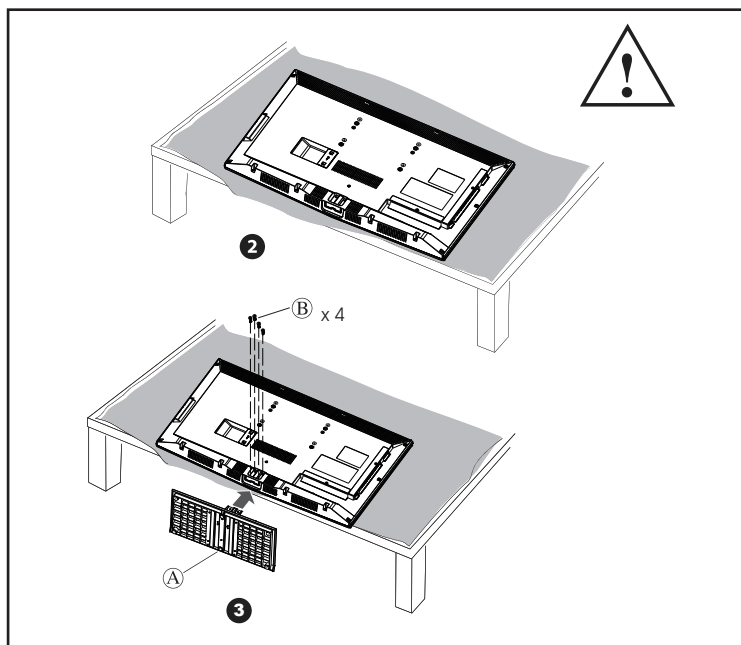
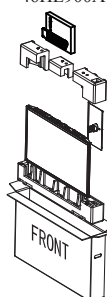
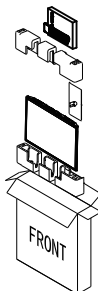


Please take out parts according to the instruction printed on the box

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46HL900A

1



**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 as indicated above. Avoid using chemicals on or near TV pedestal or serious injury could result.

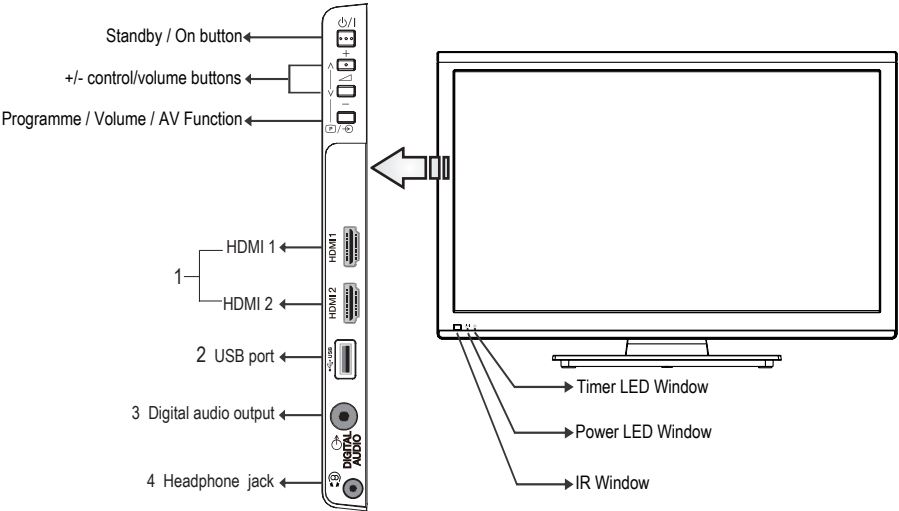
**Note:** Extreme care should always be used when attaching the pedestal stand to avoid damage to the LCD panel. Push the pedestal stand horizontally into the main set until it is blocked.

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

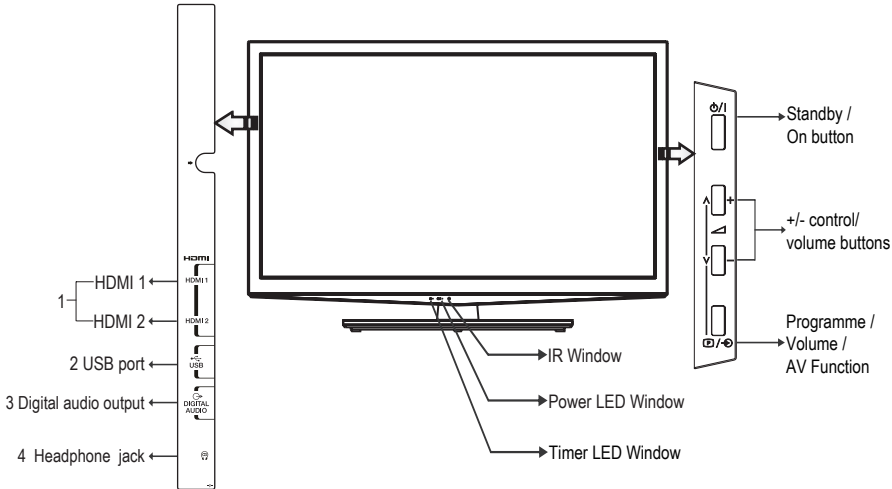
TV front and side panel control

You can operate your TV using the buttons on the TV control panel or the remote control. The back and side of the panel provide the terminal connections to connect other equipment to your TV. (Refer to page 22 *Connecting your TV*)

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Using the control panel on the front of the TV:

|                                                                                                       |                                                                                                              |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <br>IR Window        | Point your remote control at this area when selecting programme position or adjusting the volume level, etc. |
| <br>Timer LED Window | Green LED:<br>“On Timer”/“Off Timer” /<br>“EPG Timer” On                                                     |
| <br>Power LED Window | Red LED: Standby<br>Green LED: Power On                                                                      |

Using the control buttons on the side of the TV:

- To alter the volume, press + or -. If the volume does not change, press  once and press + or - again.
- To alter the programme position, press + or -. If the programme does not change, press  once and press + or - again.
- To select an external input, press and hold the  button until the “Input Source” list is displayed. To select an external input, press  repeatedly until the appropriate input source is selected.

Using the terminals on the side panel:

1. **HDMI 1 and HDMI 2:** High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device.  
(Refer to page 22 *Connecting an HDMI or a DVI device*)
2. **USB port:** For use when inserting a USB device.
3. **Digital audio output terminal:** For use when connecting an amplifier with coaxial type digital audio input.
4. **Headphone jack:** For use with headphones.

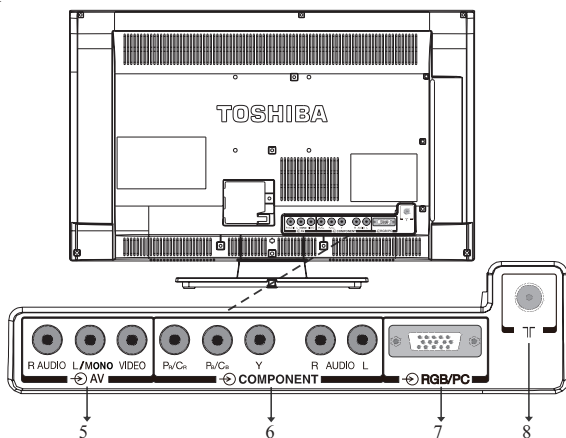
Notes:

- Please always refer to the owner’s manual of the equipment to be connected for full details.
- Inserting the headphone plug will mute the sound from all speakers.

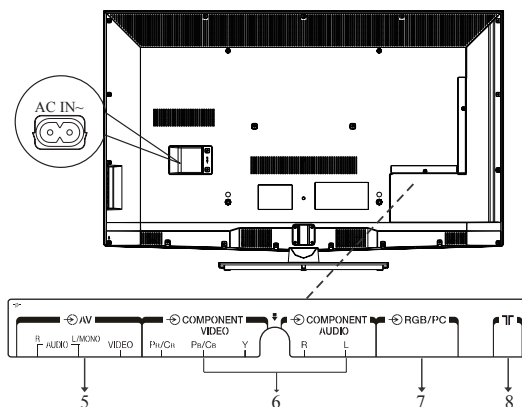
## TV back panel connections

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.

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5. **AV terminal:** Standard video and standard audio inputs

6. **Component input terminals:** For use when connecting a high-definition component video device with standard audio output.

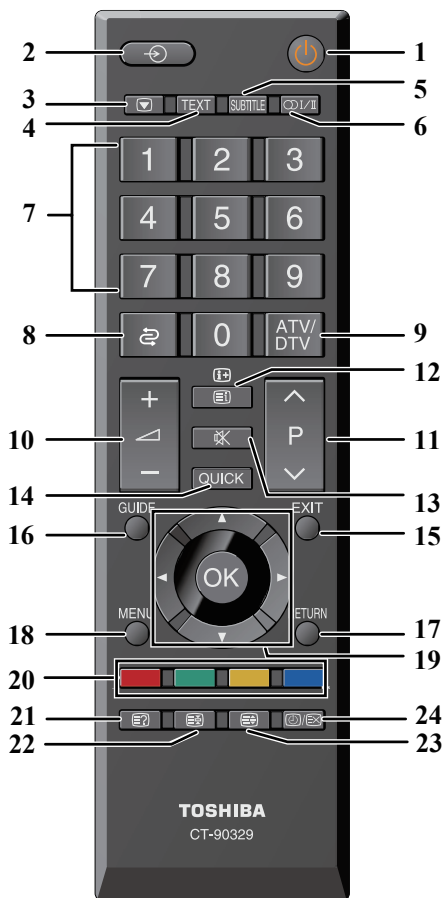
7. **RGB/PC Input terminals:** For use when connecting a computer. (Refer to page 24 *Connecting a computer*)

8. **Antenna input terminal:** Analogue TV/Digital DVB-T antenna signal input.

## Learning about the remote control

### Location of control

Simple at-a-glance reference of your remote control.



1. For On/Standby mode
2. To select input from external sources
3. Still picture
4. To call up Teletext services
5. To turn the subtitle on/off
6. Stereo/Bilingual transmissions
7. Number buttons
8. To return to the previous programme
9. To toggle between ATV and DTV mode
10. To alter the volume
11. To change programme
12. In TV mode: To display onscreen information  
In Text mode: To access index page
13. To mute the sound
14. To display Quick Access menu
15. To exit menus
16. To display the programme guide
17. To return to the previous level of the on-screen menu
18. To display the on-screen menu
19. ▲, ▼, ◀, ▶: To move up, down, left or right in the on-screen menu  
OK: To confirm the selection
20. Colour buttons: Text control buttons
21. To reveal concealed text
22. To hold a wanted page
23. To enlarge text display size
24. In normal picture mode: To display clock on TV screen.  
In Teletext mode: To toggle between Teletext and normal picture mode

## Learning about the menu system

We suggest you familiarize yourself with the display charts before using the menu system:

- Press **MENU** to display menu, then press ◀ or ▶ to select main menu headings.
- Press **OK**, then press ▲ or ▼ to select sub menu headings.
- Press **OK**, ◀ or ▶ to select the required choice. Follow the on-screen instructions. (The functions of each menu are described in detail throughout the manual).
- Press **RETURN** to return the previous level of the on-screen menu.
- If you want to close the menu, press **EXIT**.

### TV menu chart

#### PICTURE menu



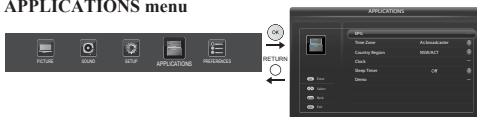
#### SOUND menu



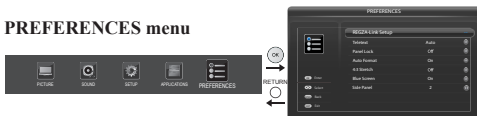
#### SETUP menu



#### APPLICATIONS menu



#### PREFERENCES menu



#### Note for menu system:

- If you do not make a selection for a while, the menu display disappears automatically.

## Turning on the TV

### Switching on the TV

Connect the power cord to a wall outlet, the power indicator lights in red (standby mode).

Press the ⏻ button on the remote control or the ⏻/| button on the TV set to turn on the TV.

### Switching off the TV

Press the ⏻ button on the remote control or the ⏻/| button on the TV set to switch to the standby mode.

#### Notes:

- This TV is not fully disconnected from the main supply, as minute current is consumed even when the TV is turned off. When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.
- If power is cut off while you are viewing the TV, the Last Mode Memory function turns on the TV automatically when power is applied again. If power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.

## Initial Installation

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the antenna is connected to your television. To set up the television, use the buttons on the remote control as described on page 13.

1. Connect the mains plug and switch the TV on using the side standby switch. Then the initial setup wizard will be displayed. This wizard will appear the first time that the television is switched on and each time the television is reset.

Welcome to use the Wizard for Initial Setup!!  
Please press [OK] to start the wizard.

2. Press the **OK** button to start the wizard.
3. Select your **Region** by pressing the ▲ or ▼ button, then press **OK** or ▶ to enter the next step.
4. Select your location by pressing the ▲ or ▼ button, then press **OK** or ▶ to enter the next step. The location options include **Home** and **Store**.

You can select either **Home** or **Store** mode.

- Press **OK** to enter the next step.
- Press ▲ or ▼ to select **Scan**, then press **OK** or ▶ to automatically start searching for all available channels.

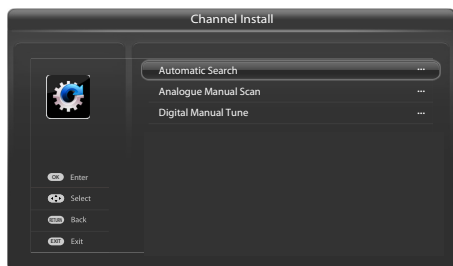
Notes:

- **Home** is recommended for normal home use. Select **Store** when using a TV for displaying in a shop, etc.
- The searching progress bar will move along the line.  
You must allow the television to complete the search.

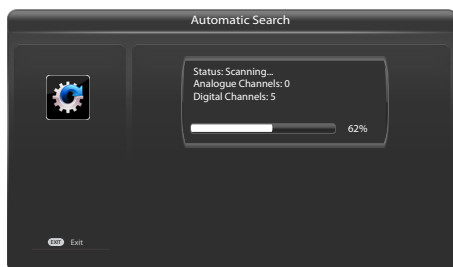
5. You can also skip the initial setup process by selecting **Skip Scan**.
6. During the setup, you can follow the hints available at the bottom of the screen to return to the previous step by pressing the ◀ button. Or press **EXIT** to exit or interrupt the search halfway.
7. After the initial setup finishes, press **OK** to display the channel list.

## Setting the programmes

1. Press **MENU**, use ◀ or ▶ to select **SETUP**, then press **OK** to enter.
2. Select **Channel Install** by pressing the ▲ or ▼ button, then press **OK** or ▶ to enter the next step. The channel install options include **Automatic Search**, **Analogue Manual Scan** and **Digital Manual Tune**.

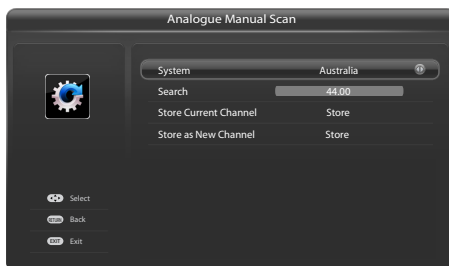


### Automatic Search



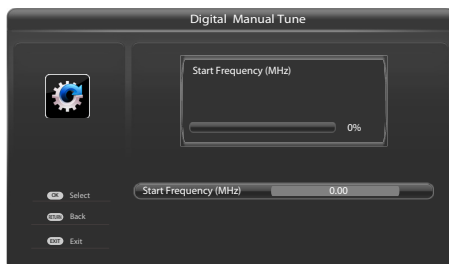
Press the ▲ or ▼ button to select **Automatic Search** and press **OK** to enter. The options include **Digital & Analogue**, **Digital** and **Analogue**. Use the ▲ or ▼ button to select one, then press **OK** to start channel scan.

### Analogue Manual Scan



Press the ▲ or ▼ button to select **Analogue Manual Scan**, and press **OK** to enter. Use the ◀ or ▶ button to select your **System**, then press the ▲ or ▼ button to select **Search** and press **OK** to start channel scan. After scanning, select **Store Current Channel** or **Store as New Channel** to store selected channels.

### Digital Manual Tune



Press the ▲ or ▼ button to select **Digital Manual Tune**, and press **OK** to enter the next step. Use the ◀ or ▶ button to adjust **Start Frequency**, then press **OK** to start channel scan.

3. After searching, the menu will remain on the screen for 10 seconds, then the TV will enter the channel you searched. Press **⏮** on the remote control to browse all channels you searched.
4. Press **RETURN** to go back to the previous menu. Press **EXIT** to exit.

## General Control

### Selecting programme positions

After you have tuned the TV, you have several ways to navigate through all programmes:

- Press the Number buttons (a channel number has 3 digitals) and you may omit the leading zeroes, which will be appended automatically; (Please note that if you have channels with different frequencies but the same channel number, the TV will always tune to the first channel that has been stored into the channel database. To view the other duplicating channels, you can select the channels by using the   buttons.)
- Press  to view the previous and next programme. The channels are arranged in ascending order according to the channel number.
- Press **OK** when there is no menu on the screen. The Channel List will appear. You can use  or  to choose the programme you want. Then, press **OK** to show the programme.

### Switching between two programme positions

You can switch two programme positions without entering actual position number each time.

1. Select the first programme position you want to view.
2. Select the second programme position with the Number buttons (0-9).
3. Press , the previous channel will be displayed. Each time you press  the TV will switch back and forth between the two programme positions.

### Stereo and Bilingual transmissions

*If stereo or dual language broadcasts are transmitted the word Stereo or Dual will appear on the screen each time programme positions are changed, disappearing after a few seconds. If the broadcast is not in stereo the word Mono will appear.*

**Stereo:** Press  to select Stereo or Mono.

**Bilingual:** Bilingual transmissions are rare. If they are transmitted the word **Dual** will display. Choose the required programme number and if the word **Dual** appears press  to select **Dual 1**, **Dual 2** or **Mono**.

### Time Display

The time display facility allows the current broadcasted time to be seen on the television screen.

Press   on the remote control while watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

### Quick Access

**Quick Access** helps you access some options quickly such as **Picture Mode**, **Picture Size**, **Media Player** and **REGZA-LINK**. Press the **QUICK** button to display the Quick Access menu and press  or  to select the option you'd like to change.

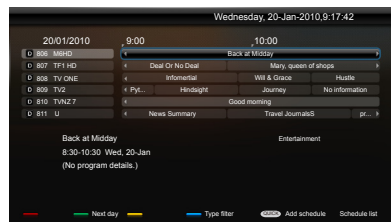
## Information

The on screen information will give the details of the channel programme currently being viewed.

1. Press , the information screen will appear giving details of the programme and event currently being viewed.
2. Press  again to close the information screen.

### EPG (Electronic Programme Guide)

- Display the Electronic Programme Guide for digital channels by pressing **GUIDE**, and the TV guide will appear as below.



- Press  or  to navigate through different channels and use  or  to navigate through different programmes.
- Press the red button to list out the previous day's programmes. Press the green button to list out the next day's programmes.
- Press the yellow button to check detailed information, if available, on a highlighted programme.
- To display the programme filter, press the blue button. Use  or  to select **Type**.
- Press **QUICK** to bring up the schedule list menu. The options include:

**Channel Number:** Select the channel you want to watch.

**Start Date:** Set the watching date.

**Start Time:** Set the starting time of watching.

**Repeat type:** Set a repeat type for reminder.

Use  /  or  /  to select **Add** and press **OK** to add the schedule into your schedule list. When the time you set comes, a message will pop up to remind you to switch to the scheduled channel.

- Press **0** to check all your schedule list information. If you want to reedit or delete a schedule, use  or  to select it and press **OK** to enter. Press the red button to add more schedules.
- When TV is in standby, it will turn on and change to the reserved channel automatically at the time you set up.

---

## Changing Picture Format

---

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats. Press the **QUICK** button and select **Picture Size**. Press **OK** to display the option list, including **Wide**, **4:3 Stretch**, **Super Live**, **14:9**, **Subtitle**, and **Cinema**. Use the **▲** or **▼** button to select one format.

*"Note: Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws."*

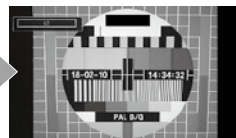
### Wide

Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9 etc.) black bars may be visible on the top and bottom of the screen.



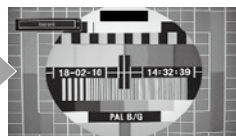
### 4:3 Stretch

Use this setting to view a true 4:3 broadcast.



### Super Live

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural. The top and bottom of the picture are slightly cut off.



### 14:9

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



### Subtitle

When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.



### Cinema

This zooms up the wide picture (16:9 aspect ratio) to the full screen.



# Using the TV's features (General)

## Picture

Press **MENU** and select **PICTURE** by using the ◀ or ▶ button. Press **OK** to enter the **PICTURE** menu.



**Picture Settings:** press **OK** to enter its submenu. The options are as below.

**Picture Mode:** selects a suitable picture effect. The options include **Standard**, **Dynamic**, **Mild**, **User** and **Movie**.

**Back Light:** sets the backlight level.

**Contrast:** sets the lightness and darkness values of the picture.

**Brightness:** sets the brightness value for the picture.

**Colour:** sets the colour value for the picture.

**Tint:** sets the tint of the colour.

**Sharpness:** sets the sharpness value.

**Black/White Level:** sets the black/white level. The options include **Off**, **Low**, **Middle** and **High**.

**Cinema Mode:** turns on or off the cinema mode.

**Colour Temperature:** press **OK** to display its submenu.

You can set **Medium**, **Warm**, **Cool** and **User**.

**Game Mode:** turn on or off the game mode. (not available in TV mode.)

**Reset:** press **OK** and confirm OK to restore all picture settings to the default.

**Active Backlight Control:** enables or disables the active backlight control feature.

**3D Colour Management:** enables or disables the 3D colour management feature. When set to On, the feature is enabled and the **Base Colour Adjustment** is available.

**Base Colour Adjustment:** press **OK** to enter its submenu. You can make adjustment for individual colours, **Red**, **Green**, **Blue**, **Yellow**, **Magenta** and **Cyan** to suit personal preference. Or you can select **Reset** and press **OK** to restore all the colour adjustment to the default.

**DNR:** selects an option from **Off**, **Low**, **Middle** and **High**.

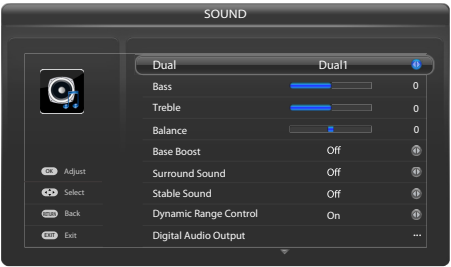
**MPEG NR:** selects an option from **Off**, **Low**, **Middle** and **High**.

Press **RETURN** to go back to the previous menu.

Press **EXIT** to exit.

## Sound

Press **MENU** and select **SOUND** by using the ◀ or ▶ button. Press **OK** to enter the **SOUND** menu.



**Dual:** sets Dual1 or Dual2, if available, for an analogue TV.

**Base:** sets the base.

**Treble:** sets the treble.

**Balance:** sets the balance.

**Bass Boost:** when turned on, enhances the depth of the sound.

**Surround Sound:** turns on or off the surround sound feature.

**Stable Sound:** when turned on, reduces the volume level differences between channels.

**Dynamic Range Control:** enables or disables the dynamic range control feature. (Only available in TV and HDMI modes)

**Digital Audio Output:** press **OK** to enter its submenu.

**Audio Format:** selects an audio format, **PCM** or **Auto**.

*Note: When in HDMI mode, the **Audio Format** option is grayed out and set to **PCM** only.*

**Audio Delay:** sets to **Auto** or **Manual** for audio delay.

**Audio Delay Time (ms):** sets the audio delay time.

**Headphone Setting:** this setting is used to set the sound output when headphones are connected. Options include **Speaker link** and **Headphone level**.

| Speaker Link | Headphone                                            | Speakers                              |
|--------------|------------------------------------------------------|---------------------------------------|
| On           | Sound is output (- / + is available.)                | No sound                              |
| Off          | Sound is output (Headphone level menu is available.) | Sound is output (- / + is available.) |

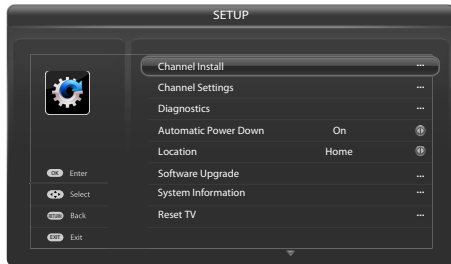
Press **RETURN** to go back to the previous menu.

Press **EXIT** to exit.

## Setup

Press **MENU** and select **SETUP** by using the ◀ or ▶ button.

Press **OK** to enter the **SETUP** menu.



**Channel Install:** allows you to install the channels.

**Channel Settings:** allows you to make channel settings like **Channel Skip**, **Channel Sort**, **Subtitle and Audio**, and **Parental Control**.

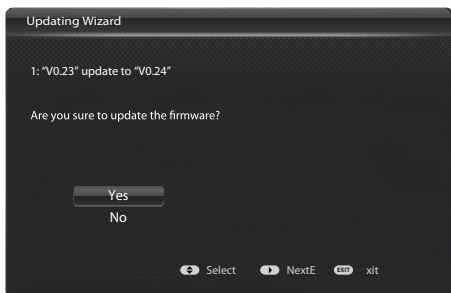
**Diagnostics:** shows the signal strength, signal quality, frequency, service ID, network ID and network name. (Only available in DTV mode)

**Automatic Power Down:** turns on or off the automatic power down feature. When set to On, the TV will turn into standby if there is no operation for 4 hours. (Available when select **Home**.)

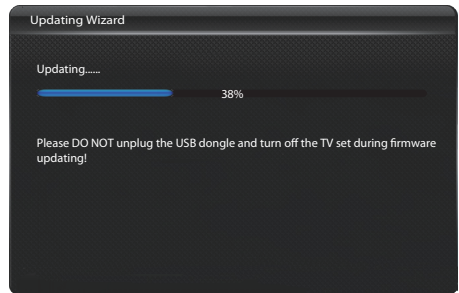
**Location:** selects the location, **Home** or **Store**.

**Software Upgrade:** allows you to upgrade the TV's software. Press **OK** to enter its submenu.

**USB Upgrade:** plug a USB device stored with the new software to the TV first. Then press **OK** to display the following screen.



Use ▲ or ▼ to select "Yes" and press **OK** or ▶ to start updating. The screen appears as below.



When the updating process finishes, you can see the following message on the screen.



Press the power button to turn the TV into standby and again to restart the TV.

**System Information:** displays the system information such as model name, version and serial number.

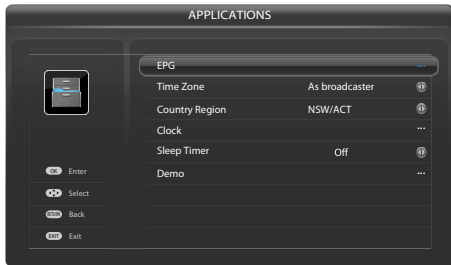
**Reset TV:** press **OK** and confirm OK to reset all the TV settings to the default. Then the initial setup wizard will appear.

Press **RETURN** to go back to the previous menu.

Press **EXIT** to exit.

## Applications

Press **MENU** and select **APPLICATIONS** by using the ◀ or ▶ button. Press **OK** to display the **APPLICATIONS** menu.



**EPG:** goes to electronic programme guide.

**Time Zone:** selects a time zone.

**Country Region:** selects a country region.

**Clock:** allows you set the date, time, power on timer, power on channel and power off timer.

*Note: either the power on timer or power off timer is activated, the timer LED on the front cabinet will light up in green.*

**Sleep Timer:** sets a time for sleep timer.

**Demo:** only available in Store mode.

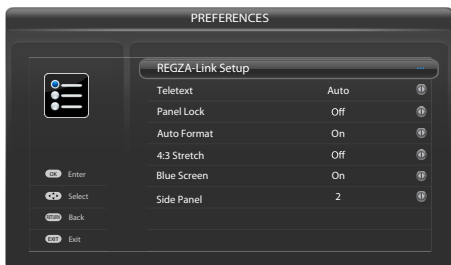
*Note: the hint of TV's switching off will appear during the last minute if power off timer or sleep timer is activated. Press EXIT to keep the TV on and cancel TV's shutting down.*

Press **RETURN** to go back to the previous menu.

Press **EXIT** to exit.

## Preferences

Press **MENU** and select **PREFERENCES** by using the ◀ or ▶ button. Press **OK** to display the **PREFERENCES** menu.



**REGZA-Link Setup:** allows you to make REGZA-Link settings. When CEC devices are connected to the HDMI terminals, you can enable the REGZA-LINK function so that

one-touch play and system standby function between CEC devices.

**Teletext:** selects a teletext mode, **Auto** or **LIST**.

**Panel Lock:** when set On, the side panel buttons are locked.

*Note: only side power button is working in case of changing from "On" to "Standby". And please use the remote control when you turn on TV again!*

**Auto Format:** turn on or off auto format function.

**4:3 Stretch:** turn on or off 4:3 stretch function.

**Blue Screen:** When set On, the TV will appear as a blue screen and the sound will be muted if no signal is received.

**Side Panel:** when the picture format is 4:3 or 14:9, select a kind of side panel to make viewing in bright or dark conditions more comfortable.

Press **RETURN** to go back to the previous menu.

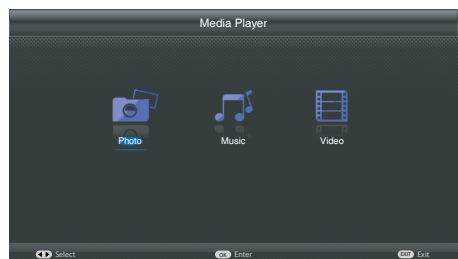
Press **EXIT** to exit.

## Media Player

### Start Media Player

- Plug in a USB device first.
- To display the Media Player window, press **QUICK** on the remote control and select **Media Player** by pressing the ▲ or ▼ button.
- Press **OK** to continue.

The following menu will be displayed automatically.



Supported file formats:

Photo: JPEG

Music: MP3

Video: Detailed information is described on page 28

**Notes:**

- Some USB compliant devices may not be supported.
- If the USB device is not recognized after power off/on or First Time Installation, first, plug the USB device out and power off/on the TV set. Plug the USB device in again.
- Do not use a USB Hub.
- You must obtain any required permission from copyright owners to use copyright content. Toshiba cannot and does not grant such permission.

- Depending on the file size and amount in your USB storage device, it may take some time for loading to view. A message will display on-screen when loading files from the USB storage device.
- Some USB keys and USB products like digital cameras or mobile phones are not fully compatible with USB 2.0 standard so they may not work with the Media Player. Not all USB keys or devices are compatible with the USB function. Not all above formats are supported. The encoding formats of your files will determine whether or not they can be used.
- Non-supported characters will be replaced with a square (□).

## Viewing Photos

To display photos, if available.

1. Select **Photo** in **Media Player** by using the ◀ or ▶ button, then press **OK** to continue.
2. Press **MENU** to display the photo menu. The options include:
  - **Sort:** Sort folders and photos by modification Date or Name.
  - **Parser:** You can select **Recursive** to display all photos stored in the USB device.
3. Use the ▲/▼/◀/▶ button to select a photo.
4. Select a photo, press **OK** to watch, and a slide show begins from the selected photo. Press **OK** to pause the photo if you want to rotate the paused photo. Press **MENU** to display the options which allow you to play, pause or rotate the photo or select different play modes and displaying effects, etc..
5. Follow the instructions at the bottom of the TV to perform relative functions, then press **OK** to continue.

## Playing Music

To play music, if available.

1. Select **Music** in **Media Player** by using the ◀ or ▶ button, then press **OK** to continue.
2. Press **MENU** to display the music menu. The options include:
  - **Sort:** Sort folders and music by Name, Genre, Artist or Album.
  - **Parser:** You can select **Recursive** to display all music stored in the USB device.
3. Use the ▲/▼/◀/▶ button to select a music.
4. Select a music, press **OK** to play, and an automatic playback begins from the selected music. Press **MENU** to display the options which allow you to play or pause the music, select different play modes, etc..
  - **Show lyrics:** This option is available for the music with lyrics. Select it and use the ◀ or ▶ button to turn on/off lyrics synchronized display.

- **Audio only:** Select it and press **OK**, you can listen to music with the screen turned off. Any key press will turn on the screen.
5. Follow the instructions at the bottom of the TV to perform relative functions.

## Watching Videos

To watch videos, if available.

1. Select **Video** in **Media Player** by using the ◀ or ▶ button, then press **OK** to continue.
2. Press **MENU** to display the video menu. The options include:
  - **Sort:** Sort folders and videos by Type, modification Date or Name.
  - **Parser:** You can select **Recursive** to display all videos stored in the USB device.
3. Use the ▲/▼/◀/▶ button to select a video.
4. Select a video, press **OK** to watch, and an automatic playback begins from the selected video. Press **MENU** to display the options which allow you to play or pause the video, select different play modes, picture modes and picture size settings.
5. Follow the instructions at the bottom of the TV to perform relative functions.

## To close the Media Player

- Press **EXIT** on the remote control to close the Media Player.

## Connecting your TV

### Connecting an HDMI or a DVI device

The HDMI input on your television 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) programme 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).

#### Notes:

- 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.
- Some early HDMI equipment may not work properly with your latest HDMI TV.
- Supported Audio format: Linear PCM, sampling rate 32/44.1/48kHz.

### To Connect an HDMI Device

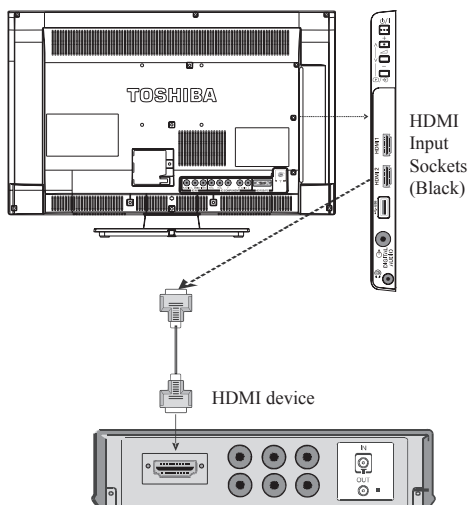
Connect an HDMI cable (type A connector) to the HDMI terminal.

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

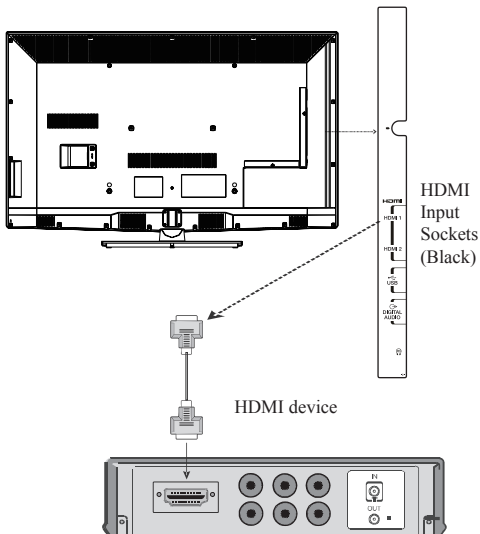
#### Notes:

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this mode.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).
- To view the HDMI device video, press the  button to select HDMI1 or HDMI2.

### 23HL900A



### 32EL900A/42HL900A/46HL900A



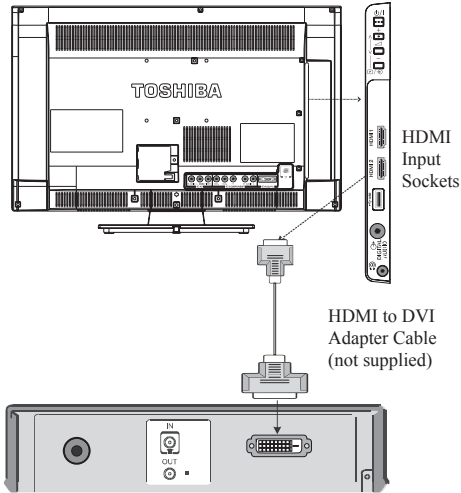
## To Connect a DVI Device

Connect an HDMI-to-DVI adaptor cable (HDMI type A connector) to the HDMI terminal.

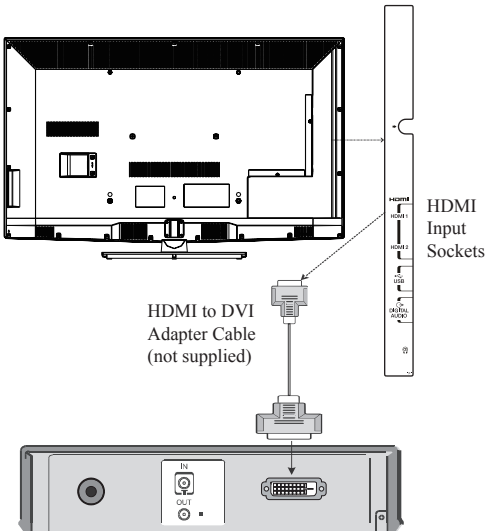
**Notes:**

- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only.

### 23HL900A



### 32EL900A/42HL900A/46HL900A

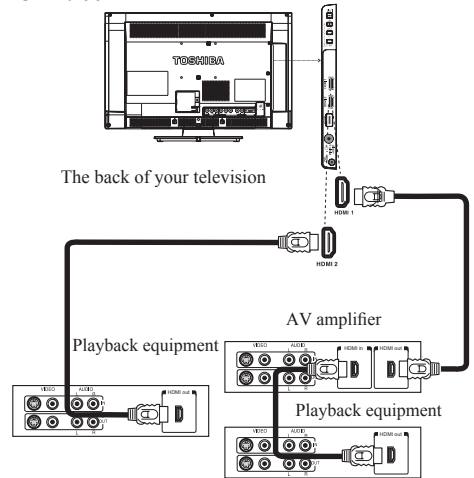


## REGZA-LINK Connections

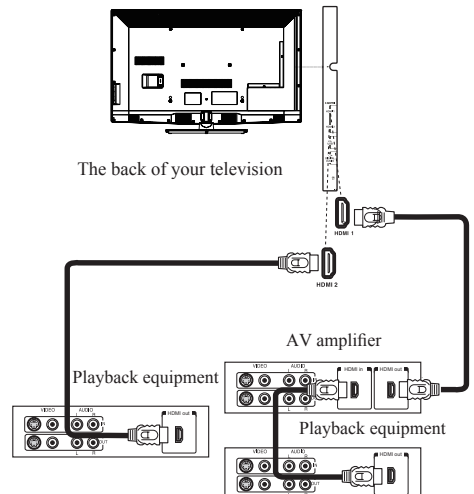
**Note:** The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

The basic functions of connected audio/video equipment can be controlled using the television's remote control if a REGZA-LINK compatible device is connected.

### 23HL900A



### 32EL900A/42HL900A/46HL900A



#### Notes:

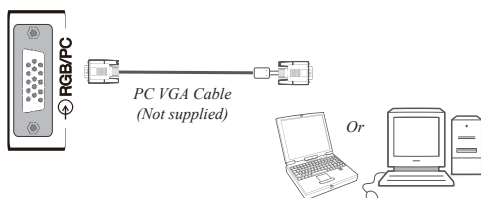
- It is recommended that for correct operation all audio/video devices are connected using **HDMI** cables branded with the **HDMI** logo ( **HDMI** ). If several devices are connected, the **REGZA-LINK** feature may not operate properly. After connecting the equipment use the **REGZA-LINK** menu to setup the desired options. The connected equipment must also be set. For details see the operation manual for each connected device.
- The **REGZA-LINK** feature uses **CEC** technology as regulated by the **HDMI** standard. This feature is limited to models incorporating Toshiba's **REGZA-LINK**. However, Toshiba is not liable for those operations. Refer to individual instruction manual for compatibility information.

## Connecting a Computer

### To Connect a Computer

With either an RGB/PC or an HDMI connection, you can watch your computer's display on the television.

When connecting a PC to the PC input on television, use an analogue RGB (15-pin) computer cable.



To use a PC, set the monitor output resolution on the PC before connecting it to the television. To display the optimum picture, use the PC setting feature.

#### Notes:

- Some PC models cannot be connected to this television. An adaptor is not needed for computers with a compatible mini D-sub 15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multiangle scenes.

## Connecting a USB Device

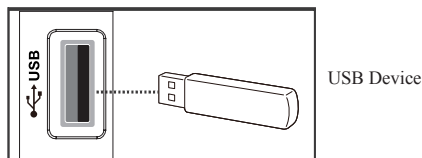
#### Notes:

- You can connect a USB device to your TV by using the USB port of the TV. This feature allows you to display/play music, photo or video files stored in a USB device.
- It is possible that certain types of USB devices (e.g. MP3 players) may not be compatible with this TV.
- You may back up your files before making any connections to the TV set in order to avoid any possible data loss. Note that manufacturer will not be responsible for any file damage or data loss.
- Do not pull out the USB device while playing a file.

**CAUTION:** Quickly plugging and unplugging USB devices is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the devices. This may cause physical damage to the TV and especially the USB device itself.

## USB Device Connection

Plug your USB device to the USB port of the TV.



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## Reference Section

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### Troubleshooting

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Before calling a service technician, please check the following table for a possible cause of the symptom and some solution.

### Symptom and solution

---

#### Why is there no sound or picture?

- Check that the television is on and that all connections are made properly.

---

#### Why doesn't the video/DVD being played show on-screen?

- Make sure the VCR or DVD player is connected to the television, then select the correct input by pressing .

---

#### Why is there a good picture but no sound?

- Check all cable connections and that the volume has not been turned down or that the sound has not been muted.

---

#### Why doesn't the remote control work?

- Check that the batteries aren't dead or inserted incorrectly.

---

#### Why are there problems with text?

- Good performance of the text depends on a strong broadcast signal. If the text is unreadable or garbled, check the antenna, satellite or cable connection. Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

---

#### Why are the four coloured text numbers visible but no text?

- Text has been selected while viewing an external source. No text will appear on screen or a box may appear stating no information is available. Select a broadcasting channel and press  to access.

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#### Why don't the devices connected via HDMI operate properly?

- Make sure to use cables with the HDMI logo. Some early HDMI equipment may not work properly with the latest HDMI TV products, due to adoption of new standards.

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#### Why is the VCR/DVD picture in black and white?

- Check the correct input has been AV or COMPONENT.

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#### Why did TV turn off by itself?

- After roughly 15 minutes without any input video signal in TV mode, the TV will turn off to save power.

# Specifications

## Model

23HL900A, 32EL900A, 42HL900A, 46HL900A

## Power source

~220-240V 50Hz

## Power consumption

23HL900A: 36W  
32EL900A: 70W  
42HL900A: 85W  
46HL900A: 110W

## Standby (approx)

< 0.5W

## Dimensions (includes foot stand)

23HL900A: 379.5mm(H) 552.3mm(W) 165.1mm(D)  
32EL900A: 516.7mm(H) 748mm(W) 209.1mm(D)  
42HL900A: 647.5mm(H) 973mm(W) 247.4mm(D)  
46HL900A: 687.3mm(H) 1058.5mm(W) 247.3mm(D)

## Mass (Weight)

23HL900A: 3.6kg  
32EL900A: 8.5kg  
42HL900A: 14.5kg  
46HL900A: 17.5kg

## Analogue TV system (Antenna input)

Channel coverage:

|         |        |               |         |
|---------|--------|---------------|---------|
| PAL B/G | (CCIR) | VHF           | 0 ~ 12  |
|         |        | UHF           | 27 ~ 69 |
|         | CATV   | C2, C10, C31, |         |
|         |        | S2 ~ S44      |         |

## Digital TV System

Compliant Standard: DVB-T  
Video Decoding: MP @ ML & MP @ HL  
Audio Decoding: Dolby® Digital MPEG (1 & 11)  
Audio Sampling Rate: 32, 44.1, 48 kHz

## Digital TV Terrestrial Tuner / Demodulator

Frequency: 51~858 MHz  
Bandwidth: 7 MHz/8MHz  
Demodulator: COFDM  
FFT Mode: 2K/8K  
Constellation: QPSK, 64 QAM

Guard Interval: 1/8, 1/16  
Inner Coding Rate: 2/3, 3/4

## Component video input terminals (the signal format)

480i, 480p, 576i, 576p, 720p (50/60 Hz), 1080i (50/60Hz)  
(These signal formats are converted to match the number of pixels of the LCD panel.)

## Composite colour system (analogue TV system)

PAL, SECAM, NTSC 3.58/4.43

## Aspect ratio

16:9

## Visible size (diagonal)

23HL900A: 58.5cm  
32EL900A: 80cm  
42HL900A: 107cm  
46HL900A: 117cm

## Number of pixels

23HL900A: 1920(H) x 1080(V) dots  
32EL900A: 1366(H) x 768(V) dots  
42HL900A: 1920(H) x 1080(V) dots  
46HL900A: 1920(H) x 1080(V) dots

## Sound output (at 10% distortion)

23HL900A: 3Wx2  
32EL900A: 7Wx2  
42HL900A: 10Wx2  
46HL900A: 10Wx2

## Input/Output terminals

Antenna Input: 75 Ω RF Input  
Composite Input:  
Video: RCA, CVBS  
Audio: RCA, L/Mono+R  
Component Input:  
Video: RCA, Y, Pb/Cb, Pr/Cr  
Audio: RCA, L/Mono+R  
HDMI Input (type A): 19pin, A/V Digital  
RGB/PC Input:  
Mini D-sub: 15 pin, Analogue RGB  
USB port: USB 2.0  
Flash Drive thickness: 9mm (max.)  
Media Player Interface:  
Version: USB 2.0

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USB class: Mass Storage

File system: FAT16 and FAT32

Digital Audio Output: Coaxial (Bitstream/PCM)

Headphone jack: 3.5mm (Diameter) stereo

***Operation condition***

Temperature: 0°C - 35°C (32°F - 94°F)

Humidity: 20% - 80% (No moisture condensation)

***Wall mount information***

23HL900A: VESA (100mm x 100mm, M4)

32EL900A: VESA (200mm x 100mm, M6)

42HL900A: VESA (400mm x 400mm, M8)

46HL900A: VESA (400mm x 400mm, M8)

***Supplied accessories***

Owner's manual (1)

Remote control (1)

Batteries (2)

Power cord (1) (Only supplied by 32EL900A, 42HL900A  
and 46HL900A)

Registration card (1)

Warranty card (1)

Stand installation sheet (1)

Pedestal screws (4) (For 23HL900A, 5 screws are  
supplied)

- *Design and specifications are subject to change without notice.*
- *Never service or remodel the TV by yourself. If may expose you to a fire hazard or dangerous voltages.*

## Media Player Supported Format

| Media | File Extension         | Format                                                                     |                                                                         | Remarks                                                          |
|-------|------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|
|       |                        | Video                                                                      | Audio                                                                   | (Maximum resolution/Bit rate etc.)                               |
| Movie | .avi                   | MPEG2 MP@HL<br>H.264 BP LV4<br>H.264 MP LV4<br>H.264 HP LV4<br>Motion JPEG | MPEG1 layer2,<br>MP3,<br>AC3,<br>MPEG4 AAC-LC                           | 1920x1080 / 40M bit/sec,<br>Motion JPEG: 320X240 / 30M bit/sec   |
|       | .mp4,<br>.mov,<br>.m4v | H.264 BP LV4,<br>H.264 MP LV4,<br>H.264 HP LV4                             | MP3,<br>MPEG4 AAC-LC                                                    | 1920x1080 / 40M bit/sec                                          |
|       | .mkv                   | H.264 HP LV4                                                               | MPEG1 layer1/2,<br>MP3,<br>AC3,<br>MPEG4 AAC-LC                         | 1920x1080 / 40M bit/sec                                          |
|       | .mpg,<br>.mpeg         | MPEG2 MP@HL,<br>MPEG1                                                      | MPEG1 layer2,<br>AC3,<br>LPCM                                           | MPEG1: 768x576 / 1.8M bit/sec,<br>MPEG2: 1920x1080 / 40M bit/sec |
|       | .ts,<br>.mpg,<br>.mpeg | MPEG2 MP@HL,<br>H.264 MP LV4,<br>H.264 HP LV4                              | MPEG1 layer2,<br>AC3,<br>MPEG2 AAC-LC,<br>MPEG4 AAC-LC,<br>MPEG4 HE-AAC | 1920x1080 / 40M bit/sec                                          |
| Music | .mp3                   |                                                                            | MP3                                                                     | Bit rate: from 32 to 320 Kbit/sec                                |
| Photo | .jpg                   |                                                                            |                                                                         | WxH=15360x8640                                                   |

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You can check the software components subject to such EULA requirements on the following Home Page:  
URL: <http://www.mytoshiba.com.au>

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| Pre-Installed Software | EULA (refer to website for details)                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| freetype               | <a href="http://www.freetype.org/FTL.TXT">http://www.freetype.org/FTL.TXT</a>                                                               |
| zlib                   | <a href="http://www.zlib.net/zlib_license.html">http://www.zlib.net/zlib_license.html</a>                                                   |
| Unicode                | <a href="http://source.icu-project.org/repos/icu/icu/trunk/license.html">http://source.icu-project.org/repos/icu/icu/trunk/license.html</a> |
| png                    | <a href="http://www.libpng.org/pub/png/libpng.html">http://www.libpng.org/pub/png/libpng.html</a>                                           |

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