

OWNER'S MANUAL

LCD Colour TV

HDMI

AUDYSSEY
EQ



42ZV600E
42ZV600T
42ZV600Y
47ZV600E
47ZV600T
47ZV600Y
55ZV600E
55ZV600T
55ZV600Y

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 TV. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control.
- You also can use the controls on the TV if they have the same name as those referred to on the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

Important Safety Instructions

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

Installation

- 1) Always connect the power plug to an appropriate electrical outlet equipped with E model: 220-240V, AC 50/60Hz, T model: 110-240V, AC 50/60Hz and Y model: 220-240V, AC 50Hz.**

Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.



WARNING ABOUT THREE-WIRE GROUNDING-TYPE PLUG: (Only for E models)

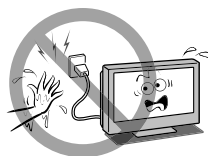
- This product shall be connected to a main socket outlet with a protective earthing connection.
- Never remove the earthing pin on the power plug. This system is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace the wall outlet.
- Never defeat the purpose of the earthing plug.

About the fuse

In a three pin earthing-type, the fuse fitted in this plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.

- 2) Never insert or remove the power plug with wet hands.**

This may cause an electric shock.



- 3) Never place the TV in an unstabilized location such as on a shaky table, incline or location subject to vibration.**

- Only use cabinets or stands recommended by the TV manufacturer.
- Only use furniture that can safely support the TV.
- Ensure that the TV is not hanging over the edge of the supporting furniture.
- Never place the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.

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.**

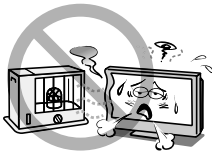
- Never place the TV so that it is facing upward or on its side.
- Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
- Never drape a newspaper, tablecloth or curtain on the TV.
- Never stand the TV on cloth or other material placed between the TV and supporting furniture.
- When installing the TV against a wall, always keep the TV at least 10 cm 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.



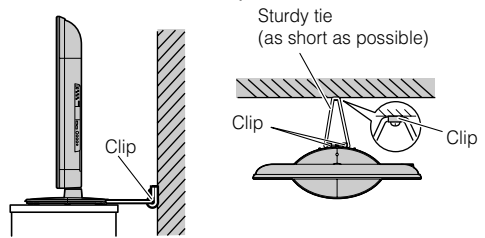
7) Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.

This may cause a fire or an electric shock.



8) Install the TV in a horizontal, stable location. Connect between two clips on the back of the TV and a wall, pillar, etc., with a sturdy tie and clip of supplied accessories (see page 43).

- Use as short a tie as possible to ensure the TV is stable.
- If the TV is not installed securely, it may lean or fall over and cause an injury.
- To prevent injury, use the exclusive optional stand or wall-hanging bracket to install this TV on the floor or wall securely in accordance with a qualified technician.



Side view

Top view

9) Precautions for moving the TV

- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable and audio/video cables, any steady ties. A fire or an electric shock may result if the power cord is damaged.
- When carrying 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.



10) Precautions for installing on outdoor aerial

An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits. If the aerial falls down or drops, it may cause an injury or an electric shock.



Use

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

High temperatures can melt plastic and lead to fires.



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

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 and 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 especially careful that children do not insert objects in the TV.



4) Never stand or climb on the TV.

- Educate children about the dangers of climbing on furniture to reach the TV or its controls.

Be especially careful in households with children to prevent them through 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 O/I 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.



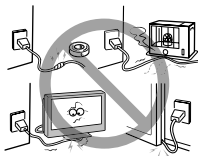
6) Never pull on the power cord when removing the plug from the wall outlet.

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 bent the cord or apply excessive force or tension to it.**

Never place heavy objects on the 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.



- 8) **If there is thunder or lightning, never touch the aerial cable or other connected cables.**

You may suffer an electric shock.



Service

- 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 repairs.



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

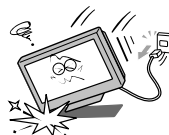
Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.



- 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 has power 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.



- 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.



Cleaning

- 1) **Remove the power plug before cleaning.**

Never use solvents such as benzene 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 display, 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.**

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



Important information

1) LCD screen

- If you have the LCD screen facing to the sun, the LCD screen will be damaged. Be aware of locating the TV close to a window or outdoors.
- Never press the LCD screen strongly or scratch it, and never put anything on it. These actions will damage the LCD screen.

2) 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 sign of malfunction.

4) 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) Using in low temperature areas

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

6) Afterimage

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

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.

Trademark Information

- Manufactured under license from Dolby Laboratories.
- Audyssey EQ is based on the award-winning Audyssey MultEQ technology. It is the first-ever room equalization solution that can achieve optimum sound for a large listening area and it is featured in many high end home theater products. Audyssey EQ is used in the TV tuning process to calculate an equalization solution that corrects time and frequency response problems in TV systems. This results in clear, rich sound with more intelligible dialog.
- Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories.
- HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC.
- SDHC logos express the High Capacity SD Memory Card more than 2GB and the logos include the SDHC, miniSDHC, microSDHC and smartSDHC Logos. These logos are licensed by SD-3C, LLC.
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Getting started

Connecting an aerial

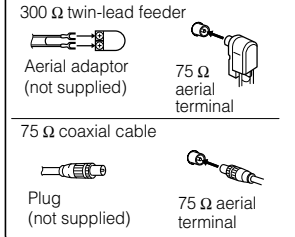
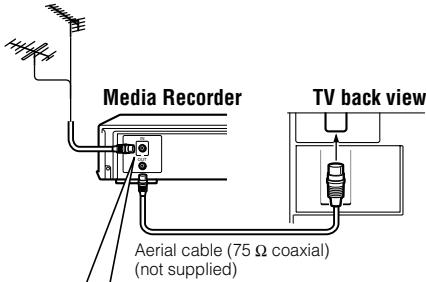
Optimum reception of colour requires a good signal and will generally mean that an outdoor aerial must be used.

The exact type and positioning of the aerial will depend upon your particular area.

Your Toshiba dealer or service personnel can best advise you on which aerial to use in your area.

Before connecting the aerial cable, turn off all main power switches.

VHF and/or UHF aerial

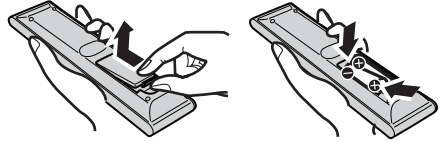


Exploring your new TV

Installing the remote control batteries

Remove the battery cover.

Insert two R03 (AAA) batteries matching the -/+ polarities of the battery to the -/+ marks inside the battery compartment.



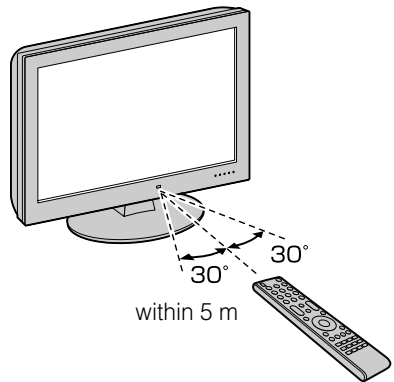
Cautions:

- 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.

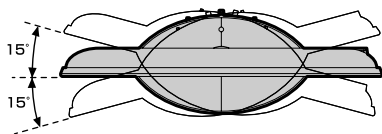
Effective range



TV top, front and side panel controls

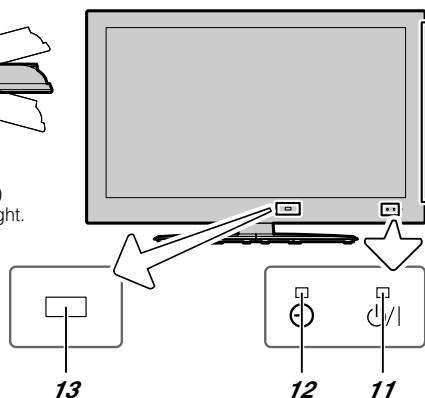
- You can operate your TV using the buttons on the side panel or the remote control. The back and side of the panel provide the terminal connections to connect other equipment to your TV (see “Connecting your TV” pages 32 – 39).
- For the use of each control, see the pages in brackets.

TV top view



You can swivel the TV screen.
(Not available on 55ZV600ETY model.)
Swivel angle: 15 degrees to left and right.

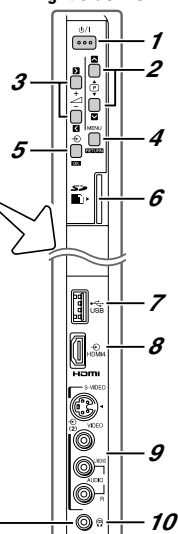
TV front view



Headphones
(Not supplied)

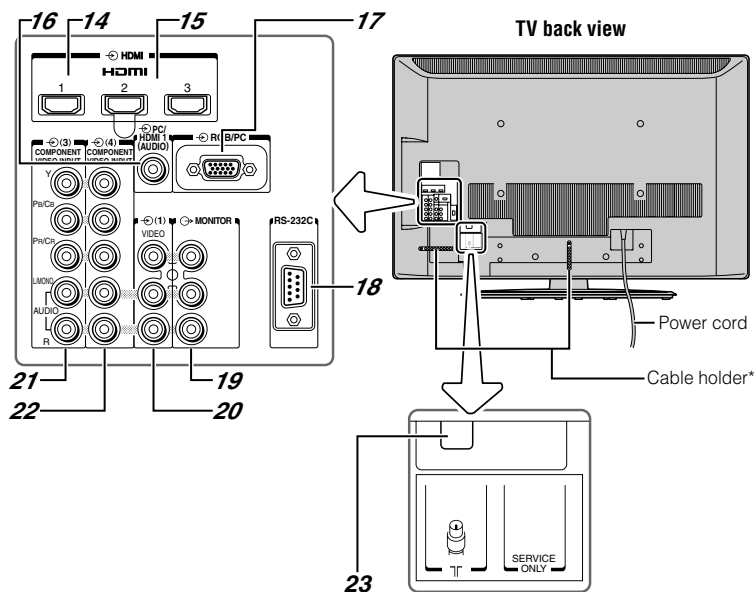


Right side view



- 1** **⏻/⏻ (Power on/Standby)** — Press to turn the TV on/ standby (see page 13).
- 2** **⏮/⏭ (Programme position)** — When no menu is on screen, these buttons select the programme position. (see page 15).
⏮/⏭ (MENU up/down) — When a menu is on-screen, these buttons function as up/down menu navigation buttons (except for the input source selection) (see page 14).
- 3** **⏪/⏩ (Volume)** — When no menu is on-screen, these buttons adjust the volume level.
⏪/⏩ (MENU left/right) — When a menu is on-screen, these buttons function as left/right menu navigation buttons or adjust settings (see page 14).
- 4** **MENU** — Press to access the menu system (see page 14).
RETURN — When a menu is on-screen, this button will take you back to the previous menu (see page 15).
- 5** **⏪ (Input source selection)** — When no menu is on screen, this button selects the input source (see page 26).
OK — When a menu is on-screen, this button will make a selection or take you to the next available menu layer (see page 14).
- 6** **SD memory card (input terminal)** — Insert your SD memory card here to view photos (JPEG) (see page 38).
- 7** **USB (input terminal)** — Insert your USB storage device here to view photos (JPEG) (see page 38).
- 8** **HDMI4 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (see page 33).
- 9** **(2) (Video 2 input terminals)** — Optional S-video or standard video and standard audio inputs (see page 32).
- 10** **(Headphone jack)** — For use with headphones.
Note:
When the Headphone jack is being used, the sound from all speakers will be muted.
- 11** **⏻ (Power LED)** — Power indicator (see page 13).
- 12** **⏻ (On timer LED)** — Timer indicator (see page 25).
- 13** **(Remote sensor)** — Point the remote control toward this remote sensor (see page 8).

TV back panel connections



* You can use the cable holder to hold the aerial cable, video and audio cables etc.

Never grasp the holder when moving the TV.

14 **HDMI1 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device (see pages 33, 35).

15 **HDMI2 and HDMI3 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (see page 33).

16 **PC/HDMI1 (AUDIO) (input terminal)** — PC audio input terminal is shared with HDMI1 analogue audio input terminal, and their use can be configured in the **SET UP** menu (see pages 33, 35).

17 **RGB/PC (input terminal)** — For use when connecting a personal computer (PC) (see page 35).

18 **RS-232C terminal** — This terminal is for service use only.

19 **MONITOR (output terminals)** — Standard video and standard audio outputs (see page 32).

20 **(1) (Video 1 input terminals)** — Standard (composite) video and standard (analogue) stereo audio inputs (see page 32).

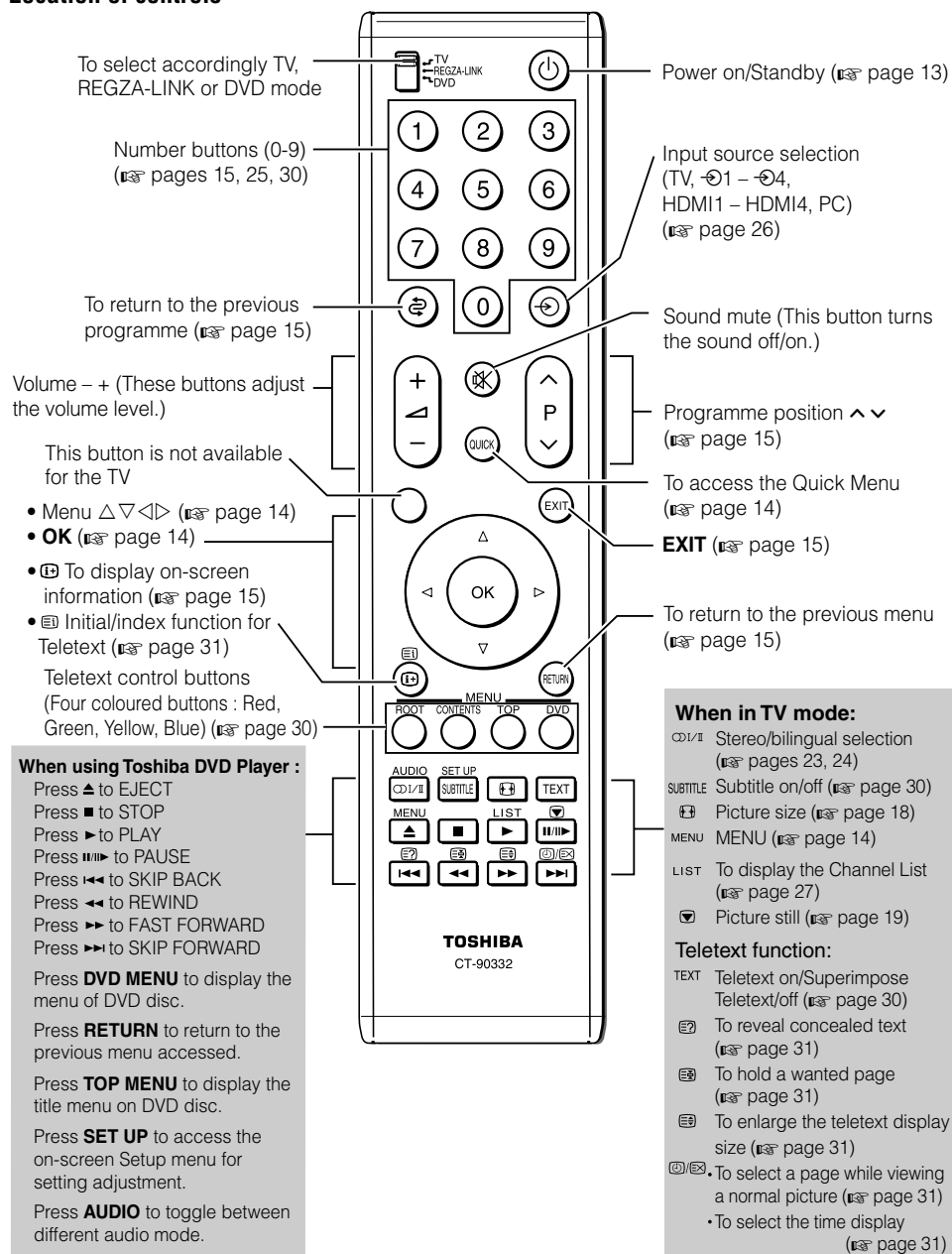
21 **(3) (Video 3 input terminals)** — High-definition component video and standard (analogue) stereo audio inputs (see page 32).

22 **(4) (Video 4 input terminals)** — High-definition component video and standard (analogue) stereo audio inputs (see page 32).

23 **(Aerial input terminal)** — Analogue aerial signal input (see page 8).

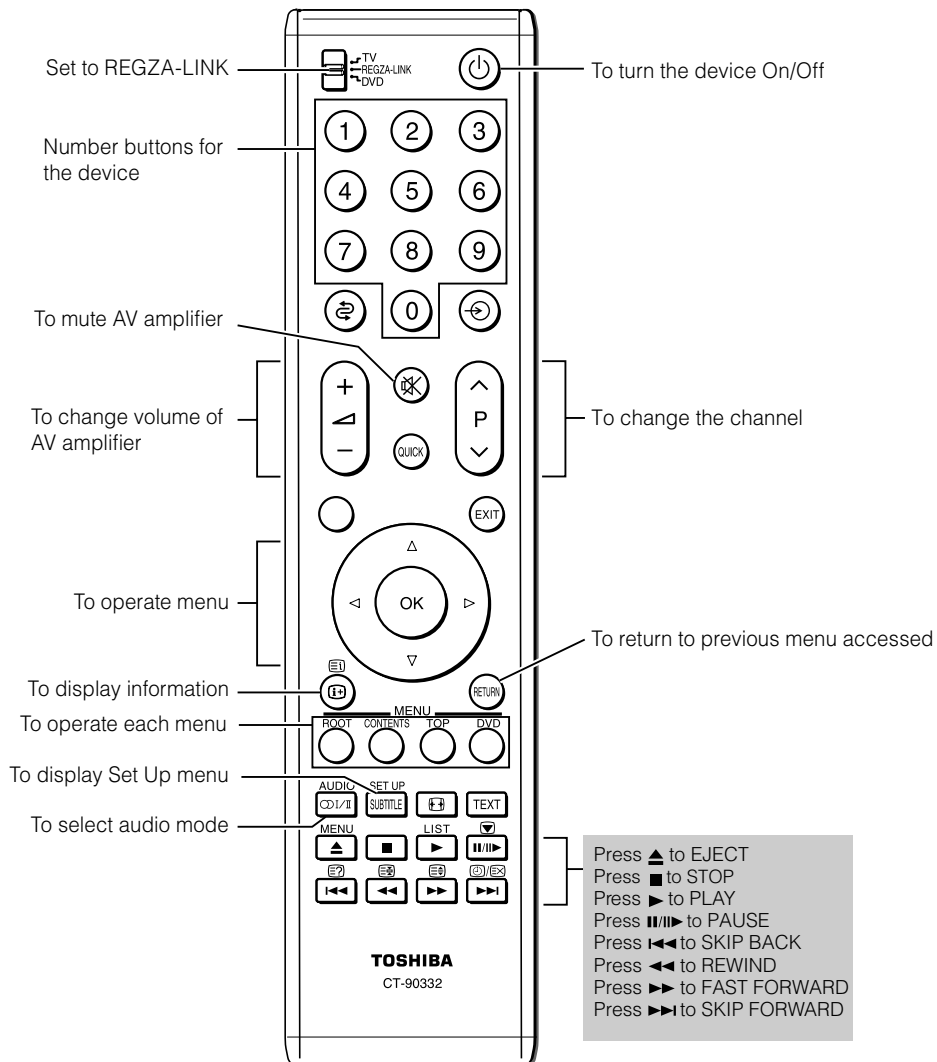
Learning about the remote control

Location of controls



* For REGZA-LINK remote control functions, please refer to "Location of controls for REGZA-LINK mode" (see page 12).

Location of controls for REGZA-LINK mode



The REGZA-LINK mode switch on the TV remote control allows control of the connected REGZA-LINK device being watched. (pages 28, 29).

Note:

These functions are dependent on the connected device. Not all of the remote control buttons may be available. Please refer to the owner's manuals of the connected devices.

Turning the TV on

Switching on the TV

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

- 1 Press \odot on the remote control or ϕ /I on the TV right side panel, the ϕ /I power indicator lights in green.

Note:

If you watch black and white programmes when the **Colour system** mode is set to Auto, colour noise may appear on the screen. In this case select the appropriate **Colour system** (For the system of each country or region, refer to pages 16, 41).

Switching off the TV

- 1 Press \odot on the remote control or ϕ /I on the TV right side panel to switch to the standby mode.

Notes:

- 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.
- The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This function does not work in external input. The TV will automatically turn itself off after approximately 1 hours if you do not operate the TV after turned on by on timer function.
- 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.

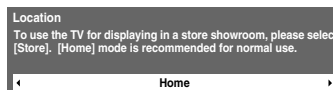
Tuning the TV for the first time

Before switching on the TV, put your decoder and media recorder to **Standby**, if they are connected, and ensure that the aerial is connected. To setup the TV, use the buttons on the remote control as detailed on page 11.

- 1 Press the \odot button. The **Quick Setup** screen will appear. This screen will appear the first time that the TV is switched on.



- 2 Press \triangleleft or \triangleright to select the **Menu Language** (English, Chinese (CS), Malay, Thai, Vietnamese, Russian, Arabic, Persian or French).
- 3 Press OK , to display the **Location** menu (see page 17).



- 4 Press \triangleleft or \triangleright to select **Store** or **Home**. For normal home use, select **Home**.
- 5 Press OK to display the **Auto tuning** startup screen. Press OK to start the automatic search.



- 6 When the automatic search is completed, the TV will automatically return to 1 position.

Note:

The **Quick Setup** menu can also be display at any time from the **SET UP** menu.

Using the Quick Menu

Quick Menu helps you access some options quickly, such as **Picture Mode**, **Picture Size**, **Sleep timer** etc.

Press **QUICK** to display the **Quick Menu** and use ∇ or \triangle to select the option.

Quick Menu	
Picture Mode	Standard
Picture Size	Super live
Sleep timer	00:00
Media Player	
REGZA WOOFER	High
Speaker Preference	TV Speakers

Note:

Quick Menu items are different depending on the current mode.

Mode	Quick menu item	Description
When viewing a TV programme or pictures from the external input	Picture Mode	➤ page 19.
	Picture Size	➤ page 18.
	Sleep timer	➤ page 25.
	Media Player	➤ page 38.
	REGZA WOOFER	➤ page 24.
When using Media Player (Photo View)	Speaker Preference	➤ page 28.
	Picture Mode	➤ page 19.
	Interval Time	➤ page 39.
	Repeat	➤ page 39.

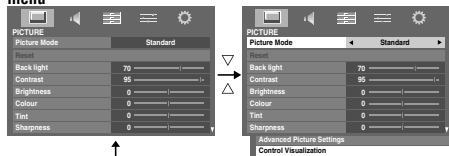
Learning about the menu system

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

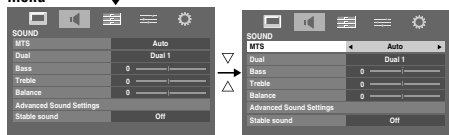
- Press **MENU** to display menu, then press \triangleleft or \triangleright to select main menu headings.
- Press ∇ or \triangle to select an item.
- Press \triangleleft or \triangleright to select or adjust setting.
- Press **OK** to display the next menu.

Displaying the menu chart

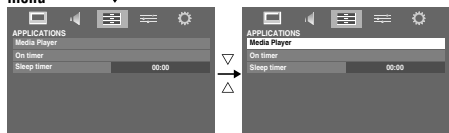
PICTURE menu



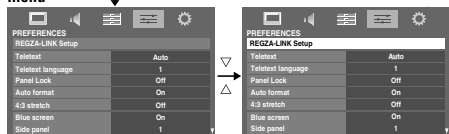
SOUND menu



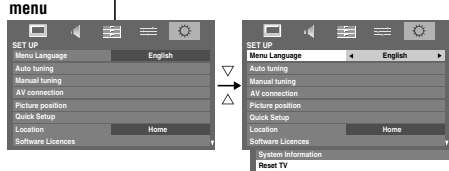
APPLICATIONS menu



PREFERENCES menu



SET UP menu



Notes:

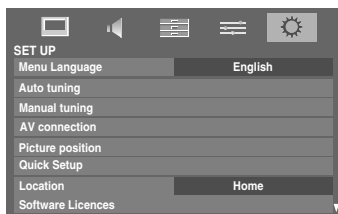
- In the video input mode (↶1 - ↷4), **Auto tuning** and **Manual tuning** are not available. Instead, **Manual setting** appears in the **SET UP** menu (ⓘ page 27).
- If you connect external equipment via component video source to external input, **Colour system** selection in the **Manual setting** menu is not available.
- If you do not make a selection for a while, the menu display disappears automatically.
- If you want to close the menu display instantly, press (EXIT) or **MENU**.
- To return to the previous menu, press (RETURN).
- In the PC input mode, **PC Setting** appears in the **SET UP** menu (ⓘ page 36).
- When you use the colour management function (ⓘ page 21), you can select the **Base colour adjustment** in the **PICTURE** menu.

Watching TV programmes

Selecting the Menu Language

Choose from 9 different languages (English, Chinese (CS), Malay, Thai, Vietnamese, Russian, Arabic, Persian or French) for the on-screen display.

- 1 Press **MENU**, then press ◀ or ▶ to display **SET UP** menu.



- 2 Press ▼ or ▲ to select **Menu Language**.
- 3 Press ◀ or ▶ to select the desired language.

Changing the position

- 1 Enter the desired position number using the **Number** buttons on the remote control. For positions below 10, use 0 and the required number e.g., for position 1.



- 2 You can also change the position by using **P**▲ or **P**▼. The position will be displayed on the screen with the Mono/Stereo/Dual audio status.

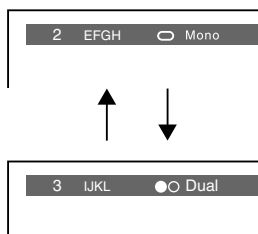
Note:

Changing positions between different format channels takes several seconds.

Switching between two positions

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

- 1 Select the first position you want to view.
- 2 Select the second 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 positions.

Displaying the on-screen information

- 1 Press (ⓘ) to display the following on-screen information.



The information will disappear in 6 seconds.

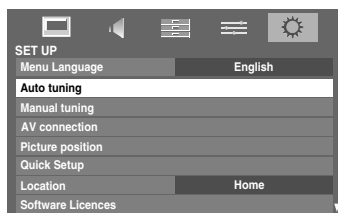
- Position or external input mode selected
 - Position skip on information
 - Label (if set)
 - Mono/Stereo/Dual audio status
- 2 To erase the display instantly, press (ⓘ) again.

Programming channels into the TV's channel memory

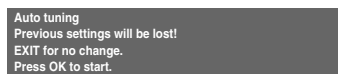
- First, use the Auto tuning function to preset all the active channels in your area automatically. Then, arrange the preset channels with the Manual tuning function so that you can tune into only desired channels.
- Use the Manual tuning operation if desired channels cannot be preset with the Auto tuning or if you would like to preset channels to specific position numbers one by one.

Auto tuning

- 1 From the **SET UP** menu, press ∇ or \triangle to select **Auto tuning**.



- 2 Press OK to display the **Auto tuning** menu.



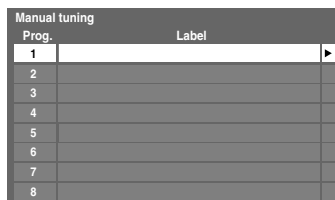
- 3 Press OK to start the automatic search. The search will begin for all available stations.



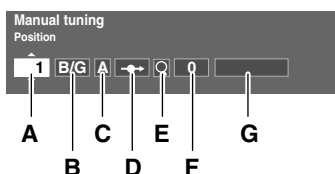
- 4 When the automatic search is completed, the TV will automatically return to 1 position.

Manual tuning

- 1 From the **SET UP** menu, press ∇ or \triangle to select **Manual tuning**.
- 2 Press OK to display the **Manual tuning** menu. Press ∇ or \triangle to select the programme position you want to arrange.



- 3 Press OK to display the breakdown menu. Press \triangleleft or \triangleright to select an item, then press ∇ or \triangle to select the item as shown below.



A. Position selection

B. System (Sound) (see page 41)

C. Colour system (see page 41)

A : Automatic (factory set), **P** : PAL,
S : SECAM, **N4** : NTSC 4.43 (MHz),
N3 : NTSC 3.58 (MHz)

If the colour of a certain channel is abnormal, the automatic colour system selection (A) may have malfunctioned, or sound system selection is wrong. In such a case, select another colour and/or sound system (see page 41).

D. Position skip selection

Press ∇ or \triangle to turn the position skip option on “ ↔ ” or off “ → ”.

The position will then be skipped when you select channels with **P \wedge** or **P \vee** .

The “ ↔ ” mark will appear when you use the **Number** button on the remote control.

E. Channel search operation

Press Δ to search up the band or ∇ to search down the band.
 Press ∇ or Δ repeatedly until your desired channel is displayed.
 When a station is found, it will be displayed.
NEVER PRESS ANY OTHER BUTTONS WHILE THE SET IS TUNING.

F. Manual fine tuning

Press ∇ or Δ until better picture and sound are obtained.

G. Label

Labels appear under the programme position display each time you turn on the TV, select a channel, or press Ⓢ .

To change or create labels:

- 1) Press ∇ or Δ repeatedly to select a character for the first space, then press \triangleleft or \triangleright .

$\boxed{\text{A} \rightarrow \text{Z} \rightarrow (\text{---}) \rightarrow * \rightarrow + \rightarrow , \rightarrow - \rightarrow . \rightarrow / \rightarrow 0 \rightarrow 9 \rightarrow \text{M} \rightarrow }$

*(blank space)

- 2) Repeat step 1) to enter the rest of the characters. If you would like a blank space in the label name, you must choose a blank space from the list of characters.

Press Ⓢ to store your settings.

Sorting positions

TV channels may be moved and stored to the position of your choice.

- 1 From the **SET UP** menu, press ∇ or Δ to select **Manual tuning**.
- 2 With the list of channels now showing, press ∇ or Δ to select the channel you want to move and press \triangleright .

Prog.	Label
1	ABCD
2	EFGH
3	IJKL
4	MNOP
5	
6	
7	
8	

- 3 Use ∇ or Δ to move through the list to your preferred position. As you do so, the other channels will move to make room.
- 4 Press \triangleleft to store your move. Repeat as necessary, and then press EXIT .

Setting the Location

You can select either **Home** or **Store** mode. **Home** is recommended for normal home use. Select **Store** when using a TV for displaying in a shop, etc.



- 1 From the **SET UP** menu, press ∇ or Δ to select **Location**.
- 2 Press \triangleleft or \triangleright to select **Home** or **Store**.

Using the TV's features

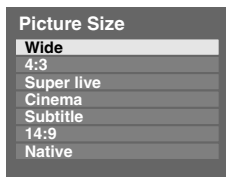
Picture adjustment

- Most of the picture controls and functions are available. However features not available will be greyed out.

Selecting the picture size

- 1 Press  until the picture size list appears on the screen, then press ∇ or \triangle to select the appropriate picture size (or press  repeatedly to select the desired picture size directly).

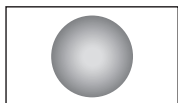
AV format



- 2 Press .

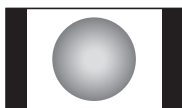
Wide

Use this setting when watching a wide-screen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of wide-screen formats (16:9, 14:9, 20:9 etc.), you may see bars on the top and bottom of the screen.



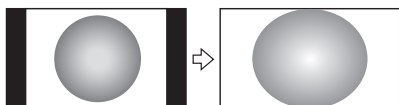
4:3

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



Super live

This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.



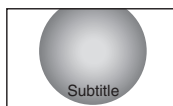
Cinema

When watching "all sides panel format" films/video tapes, this setting will eliminate or reduce the black bars on all the sides of the screen by zooming in and selecting the image without distortion.



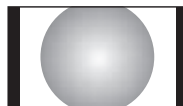
Subtitle

When subtitles are included on a letterbox format broadcast, this setting will raise the picture so that the most of text is displayed.



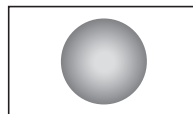
14:9

Use this setting when watching a 14:9 broadcast.



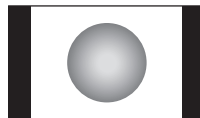
Native

This setting will display the image correctly without distortion or picture clipping.



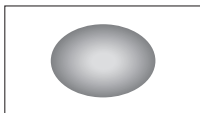
PC Normal

Use this setting for PC connected via HDMI or RGB/PC terminal when receiving PC signal format. This setting will display the image correctly without distortion or picture clipping.



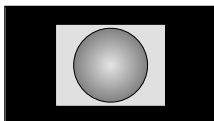
PC Wide

Use this setting for PC connected via HDMI or RGB/PC terminal when receiving PC signal format. This setting will display the image without picture clipping.



Dot by Dot

“Dot by Dot” is a non-scaling display. Depending on the input signal format, the picture is displayed with side panels and/or bars at the top and bottom (i.e. VGA input source).

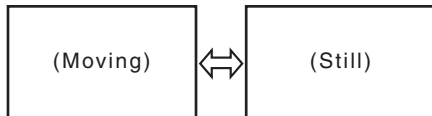


Notes:

- In the PC connected via HDMI or RGB/PC terminal (see page 35), the picture size selection is **PC Wide**, **PC Normal** or **Dot by Dot** only.
- Using the special functions to change the size of the displayed image (e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.
- If the aspect ratio of the selected format is different from the one of the TV transmission or video programme, it can cause a difference in vision. Change to the correct aspect ratio picture size.
- When using the PC connected via HDMI or RGB/PC terminal, the moving image quality may be deteriorated.

Using the picture still

- Press to freeze the picture. Even if an image is frozen on the TV screen, the pictures are running on the input source. Audio continues to be output as well. To return to a moving picture, press again.



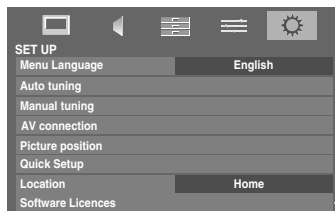
Note:

If you use this function except for the purpose of your private viewing and listening, it may infringe the copyright protected by the copyright laws.

Adjusting the picture position

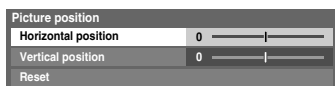
Adjustment to the position of the picture may be made to suit your viewing preferences.

- 1 Press **MENU**, then press or to display the **SET UP** menu.



- 2 Press or to select **Picture position**.

- 3 Press then press or to select the item you want to adjust.



- 4 Press or to adjust the settings as desired.



Notes:

- When the picture size is in **Wide** or **4:3** mode, only the **Horizontal position** can be adjusted.
- When the picture size is in **Native**, **PC Wide**, **PC Normal** and **Dot by Dot** mode, none of this function will be available.

Resetting the picture position

This function resets your picture position settings to the factory settings.

- 1 From the **Picture position** menu, press or to select **Reset**.

- 2 Press .

Activating the Picture Mode

This TV offers the choice of the personalized picture style.

AutoView, **Dynamic**, **Standard**, **Movie**, **Store**, **Game** and **PC** are preset options and affect many features/settings within the TV.

Notes:

- Because the **AutoView** mode automatically adjusts picture settings based on ambient light conditions, the **Auto Brightness Sensor** and **Expert Mode** menus are greyed out when it is selected.

- **Store mode** is only available when **Location** is set to **Store**.
- **Game mode** is available in external input mode (other than aerial input). When you select **Game mode**, suitable widescreen formats will be selected.
- **PC mode** is available in RGB/PC input mode or HDMI input mode.
- The **Picture Mode** you select affects the current input only. You can select a different **Picture Mode** for each input.

- 1 From the **PICTURE** menu press ∇ or \triangle to select **Picture Mode**.



- 2 Press \triangleleft or \triangleright to select the picture mode you prefer.

Resetting the Picture Mode

This feature resets **Picture Mode** to the factory settings.

Note:

If no picture settings have been changed, **Reset** is not available.

- 1 From the **PICTURE** menu, press ∇ or \triangle to select **Reset**, and then press \odot .
- 2 A confirmation message will appear. Press \triangleleft or \triangleright to select **Yes**, and then press \odot .

Activating the picture preferences

You can customise current picture mode settings as desired. For example, while selecting "**Dynamic**," if you change the following items, such as **Back light**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness**, and the **Advanced Picture Settings** items, your new setting is saved under the same name "**Dynamic**".

- 1 From the **PICTURE** menu, press ∇ or \triangle to select either **Back light**, **Contrast**, **Brightness**, **Colour**, **Tint** or **Sharpness**.

- 2 Press \triangleleft or \triangleright to adjust the settings.

Note:

Back light and **Contrast** are not available when **Picture Mode** is set to **AutoView**.

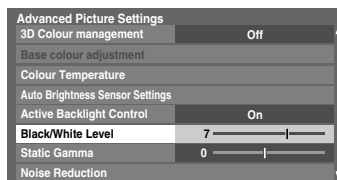
Setting the Black/White Level

Black/White Level improves the definition of dark areas of the picture.

- 1 From the **PICTURE** menu, press ∇ or \triangle until **Advanced Picture Settings** is selected.



- 2 Press \odot , and then press ∇ or \triangle to select **Black/White Level**.



- 3 Press \triangleleft or \triangleright to adjust the settings as required.

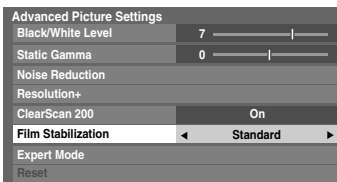
Note:

Adjust range varies according to the **Picture Mode** you set.

Adjusting Film Stabilization

The **Film Stabilization** function improves motion smoothness.

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle until **Film Stabilization** is selected.



- 2 Press \triangleleft or \triangleright to select **Off**, **Smooth** or **Standard**.

Note:

If **Picture Mode** is set to **AutoView**, **Auto mode** appears in the **Film Stabilization**.

Using ClearScan 200

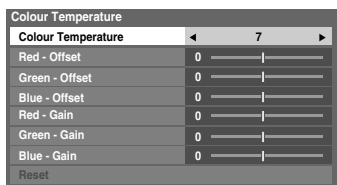
This feature reduces image lag and provides a crisper image.

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle until **ClearScan 200** is selected.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Adjusting the colour temperature

Colour Temperature increases the warmth or coolness of the picture by setting the red, green or blue tint.

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle to select **Colour Temperature**, and then press OK .
- 2 Press \triangleleft or \triangleright to select the **Colour Temperature** setting (0 (warm) - 10 (cool)).



- 3 Press ∇ or \triangle to select the option you want to adjust, then press \triangleleft or \triangleright to adjust the setting.
- 4 Press OK to return to the previous menu. To return the colour temperature settings to the factory defaults, select **Reset**, and then press OK .

Notes:

- Adjust the range varies according to the **Picture Mode** you set.
- If **Picture Mode** is set to **AutoView**, you can only adjust **Colour Temperature**.

Activating the MPEG NR (Noise Reduction)

If the receiving signal of MPEG is a mosquito (grained) noise depending on the compression and conversion, the noise may be reduced when using this function.

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle to select **Noise Reduction**, and then press OK .



- 2 Press \triangleleft or \triangleright to select **Off**, **Low**, **Middle** or **High**.

Activating the DNR (Digital Noise Reduction)

If the receiving signal is weak and the picture is blurry, the picture may be improved when using this function.

- 1 From the **Noise Reduction** menu, press ∇ or \triangle to select **DNR**.
- 2 Press \triangleleft or \triangleright to select **Auto**, **Off**, **Low**, **Middle** or **High**.

Note:

This function is available for 480i and 576i signals.

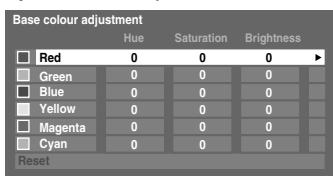
Adjusting the colour management

You can adjust the picture colour quality by selecting from 6 base colour adjustments : **Red**, **Green**, **Blue**, **Yellow**, **Magenta** or **Cyan**.

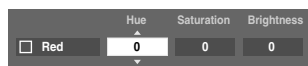
- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle to select **3D Colour management**.
- 2 Press \triangleleft or \triangleright , then press \triangleleft or \triangleright to select **On**.



- 3 Press OK , then press ∇ or \triangle to select **Base colour adjustment**.
- 4 Press OK , then press ∇ or \triangle to select an item you want to adjust.



- 5 Press \triangleright , then press \triangleleft or \triangleright to select **Hue**, **Saturation** or **Brightness**.
- 6 Press ∇ or \triangle to adjust the settings as required.



Note:

If you select colour management **Off** mode, this mode is not available.

Resetting the Base colour adjustment

The reset function adjusts the base colour adjustment to the factory settings.

- 1 From the **Base colour adjustment** menu, press ∇ or \triangle to select **Reset**.
- 2 Press OK .

Using the Active Backlight Control

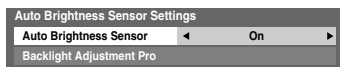
In order to improve screen visibility, the active backlight control sets the screen brightness automatically during dark scenes.

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle to select **Active Backlight Control**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

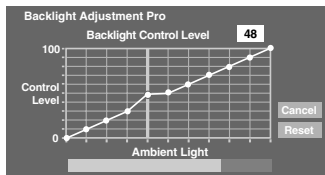
Activating Auto Brightness Sensor

When the **Auto Brightness Sensor** is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.

- 1 From the **Advanced Picture Settings** menu, press ∇ to select **Auto Brightness Sensor Settings**, and then press OK .
- 2 Press \triangleleft or \triangleright to select **On**, and then press OK .



- 3 Press ∇ to select **Backlight Adjustment Pro**, and then press OK .
- 4 The **Backlight Adjustment Pro** window will appear. Press OK again to display the adjustment window.
- 5 Press \triangleleft or \triangleright to select a point and press ∇ or \triangle to adjust the level.



- 6 To cancel the adjustment when selecting a point, select **Cancel** and press OK . To return the settings of all points to the factory defaults, select **Reset**, and then press OK .

Adjusting the Static Gamma

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

- 1 From the **Advanced Picture Settings** menu press ∇ or \triangle to select **Static Gamma**.
- 2 Press \triangleleft or \triangleright adjust the level.

Adjusting Resolution+

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

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle until **Resolution+** is selected, and then press OK .
- 2 Press \triangleleft or \triangleright to select **On**, and then press OK .



- 3 Press ∇ to select **Level**, then press \triangleleft or \triangleright to adjust the level.

Notes:

- This feature may not work properly depending on the content.
- Adjustable range varies according to the **Picture Mode** (see page 19) you set.
- Noise may appear on the image depending on the device connected to the TV (e.g. a device with a specific enhancer function).

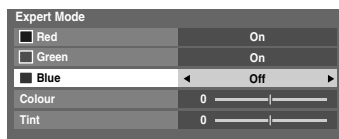
Using Expert Mode

This feature allows you to turn the colours red, green and blue on/off individually in order to adjust each colour more accurately.

Note:

This feature is not available when **Picture Mode** is set to **AutoView**.

- 1 From the **Advanced Picture Settings** menu, press ∇ or \triangle until **Expert Mode** is selected, and then press OK .
- 2 Press ∇ or \triangle to select either **Red**, **Green** or **Blue**, and then press \triangleleft or \triangleright to select **On**. Select **Off** for the other two colours.



- Press ∇ or \triangle to select **Colour** or **Tint**, and then press \triangleleft or \triangleright to adjust.

Resetting the Advanced Picture Settings

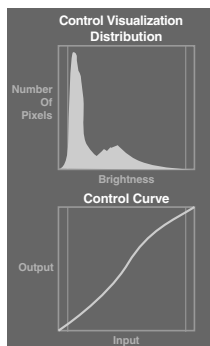
This feature allows you to reset the current Advanced Picture Settings to the default values.

- From the **Advanced Picture Settings** menu, press ∇ or \triangle until **Reset** is selected.
- Press OK .

Viewing the Control Visualization

This feature displays the brightness histogram and control curve of each scene.

- From the **PICTURE** menu, press ∇ or \triangle until **Control Visualization** is selected, and then press OK .
The histogram window will appear.



- Press RETURN to return to the previous menu.

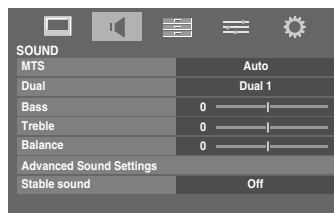
Sound adjustment

Setting the MTS (Multi-channel TV Sound)

Auto mode

The MTS Auto mode automatically recognize stereo/bilingual programmes depending on the broadcast signal.

- Press **MENU**, and then press \triangleleft or \triangleright to display the **SOUND** menu.



- Press ∇ or \triangle to select **MTS**, and then press \triangleleft or \triangleright to select **Auto** or **Mono**.

Mono mode

If you experience noise or poor reception of any stereo/bilingual programme, set the **MTS** mode to **Mono**.

Noise will be reduced and reception may improve.

Note:

*If you experience noise with a particular programme on whose channel reception is usually good, try setting MTS mode to **Auto**, then switch DVI to \square Mono (monaural).*

Selecting the Dual 1 or Dual 2 mode

You can hear only Dual 1 or Dual 2 sound selected, whenever bilingual programmes are received.

- Press **MENU**, and then press \triangleleft or \triangleright to display the **SOUND** menu.
- Press ∇ or \triangle to select **Dual**, and then press \triangleleft or \triangleright to select **Dual 1** or **Dual 2**.

Notes:

- When the MTS setting is in **Mono** mode, the **Dual** menu is not available.
- The **Dual** menu setting status remains even if the TV is turned off.

Selecting the stereo programmes

- 1 When a stereo programme is received, **Stereo** appears.



- 2 Press to select the stereo/monaural mode. **Stereo** and **Mono** appear cyclically on the screen.



Selecting the bilingual programmes

- 1 When a bilingual programme is received, **Dual** appears.
- 2 Press to select the sound to be heard. The sound differs according to the transmission system: NICAM or German stereo/bilingual broadcast.



Display	Sound to be heard	
	NICAM	German stereo/ bilingual broadcast
Dual 1	Sub I sound	Main sound
Dual 2	Sub II sound	Sub sound
Mono	Main sound	—

Note:

These settings are not stored in the TV memory.

Adjusting the sound quality

- 1 From the **SOUND** menu, press ∇ or \triangle to select an item you want to adjust.
- 2 Press \triangleleft or \triangleright to adjust the settings as required.

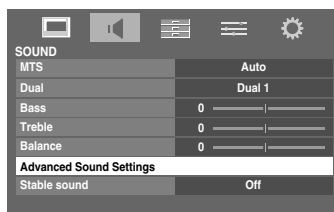
Selection	\triangleleft	Pressing	\triangleright
Bass	weaker		stronger
Treble	weaker		stronger
Balance	decreases the right channel		decreases the left channel

Using the Advanced Sound Settings

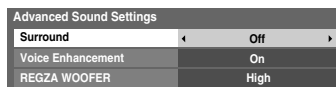
Surround and **REGZA WOOFER** help to create an enhanced surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

Voice Enhancement helps to emphasize dialogue. It will be easier to hear voices over other background audio.

- 1 From the **SOUND** menu, press ∇ or \triangle to select **Advanced Sound Settings**, and then press .



- 2 Press ∇ or \triangle to select **Surround**, then press \triangleleft or \triangleright to select **Off**, **Spatial** or **Cinema**.



Voice Enhancement : To turn the vocal emphasis effect **On** or **Off**.

REGZA WOOFER : To select the desired bass expansion level (**Off**, **Low** or **High**).

Using the Stable sound

The Stable sound function limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV programme switches to a commercial).

- 1 From the **SOUND** menu, press ∇ or \triangle to select **Stable sound**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Note:

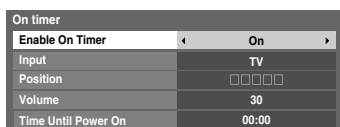
The Stable sound effect is active only when the sound outputs from the speaker.

Other features settings

Setting the On timer menu

The feature allows you to set the TV to turn on automatically to a preset position or input. When **On timer** is set to **On**, the green on timer indicator on the front of the TV is lit (see page 9).

- 1 From the **APPLICATIONS** menu, press ∇ to select **On timer**, and then press **OK**.
- 2 Press ∇ or \triangle to select **Enable On Timer**, and then press \triangleleft or \triangleright to select **On**.



- 3 Press ∇ or \triangle to go through the list adding the details of the on timer by using the **Number** buttons and \triangleleft or \triangleright to make selections, and then press **OK**.

Input: Select a video input source (TV, EXT 1, EXT 2, EXT 3, EXT 4, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC).

Position: Set the position that will be tuned when the TV turns on.

Note:

When an external input is selected in the Input field, this feature is not available.

Volume: Select the volume level that will be set when the TV turns on.

Time Until Power On: Set the amount of time from now until the TV turns on using the number buttons (maximum of 12 hours and 50 minutes).

To cancel the On timer

- 1 In the **On timer** menu, select **Enable On Timer**.
- 2 Press \triangleleft or \triangleright to select **Off**, and then press **OK**.

Setting the Sleep timer

The Sleep timer is especially useful if you want the TV to turn itself off after a selected period of time.

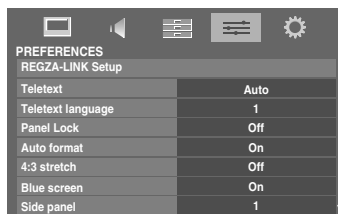
- 1 From the **APPLICATIONS** menu, press ∇ or \triangle to select **Sleep timer**.

- 2 Press the **Number** buttons (0-9) to enter the amount of time until the TV turns off. Alternatively, press \triangleleft or \triangleright to adjust the time in blocks of 10 minutes up to 12 hours and 50 minutes.

Using the auto format

When the TV receives a true HDMI signal picture and the auto format is On, it will automatically be displayed in HDMI signal format, irrespective of the TV's previous setting.

- 1 Press **MENU**, then press \triangleleft or \triangleright to display the **PREFERENCES** menu.



- 2 Press ∇ or \triangle to select **Auto format**, then press \triangleleft or \triangleright to select **On** or **Off**.

Activating blue screen

With the blue screen function **On**, the screen automatically turn blue will be muted when no signal is being received.

- 1 From the **PREFERENCES** menu, press ∇ or \triangle to select **Blue screen**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Note:

Teletext mode (see page 29), this function is not available.

Activating the 4:3 stretch

When 4:3 stretch is activated, this function will switch 4:3 format programmes into a full screen picture.

- 1 From the **PREFERENCES** menu, press ∇ or \triangle to select **4:3 stretch**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Note:

In HDMI signal format, this function is available.

Adjusting the brightness of side panel

You can adjust the brightness of side panel in 14:9 or 4:3, etc. mode.

- 1 From the **PREFERENCES** menu, press ∇ or \triangle to select **Side panel**.
- 2 Press \triangleleft or \triangleright to adjust the settings as required.



Panel Lock

Panel Lock disables the buttons on the TV. All buttons on the remote control can still be used.

- 1 From the **PREFERENCES** menu, press ∇ or \triangle to select **Panel Lock**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Note:

When **Panel Lock** is **On**, a reminder will appear when the buttons on the TV are pressed. If the standby button is pressed, the TV will switch off and can only be brought out of standby by using the remote control.

Using the TOSHIBA Illumination

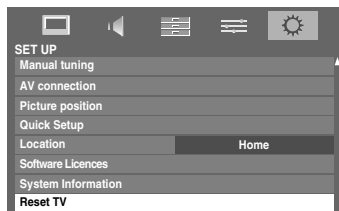
You can set the illumination mode of the TOSHIBA logo located on the front panel to **On** or **Off**.

- 1 From the **PREFERENCES** menu, press ∇ until **TOSHIBA Illumination** is selected.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Resetting the TV

Reset TV will reset all TV settings, including stored channels, to their original factory values.

- 1 From the **SET UP** menu, press ∇ or \triangle until **Reset TV** is selected.



- 2 Press OK to select.

A screen will appear warning that all settings will be lost. Select **Yes**, and then press OK to continue.

When the set powers back on, the **Quick Setup** screen will appear (see page 14). Press OK to continue, and proceed to the **Auto tuning** menu (see page 16).

Viewing the Software Licences

The licences for the software used in this TV are available for viewing on screen.

- 1 From the **SET UP** menu, press ∇ or \triangle to select **Software Licences**.
 - 2 Press OK .
- A screen will appear displaying all of the licencing information required for the TV's software.

Confirming software version

- 1 From the **SET UP** menu, press ∇ or \triangle to select **System Information**.
- 2 Press OK to display the software version.



Note:

The software version displayed is just for the illustration.

Selecting the video input source to view

- 1 Press Source on the remote control until the video input mode list appears on the screen, then press ∇ , \triangle or Source to select appropriate input source (or press Source on the TV right side panel to select required input source directly).



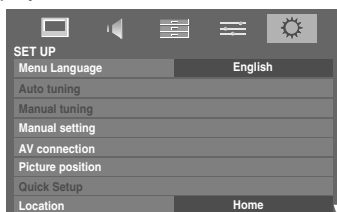
- 2 Press **OK**.
- ➔ 1 (➔ (1), video 1 input),
 - ➔ 2 (➔ (2), video 2 input) or ➔ 2S (S-video input),
 - ➔ 3 (➔ (3), component video input),
 - ➔ 4 (➔ (4), component video input),
 - HDMI1, HDMI2, HDMI3, HDMI4 (HDMI input),
 - PC (➔ RGB/PC, PC input)

Notes:

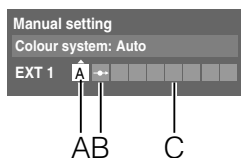
- When the component video input, PC input mode or HDMI input mode is selected, the **MONITOR OUT** output terminals (see page 32) output audio signal only.
- If a **REGZA-LINK** device is connected to an HDMI input, the **REGZA-LINK** icon will appear.
- When the TV is switched on, it will take a few minutes for the **REGZA-LINK** icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected device is changed or HDMI device setting are changed, **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu may need to be reset to **On**.

Setting the Manual setting menu

- 1 Press **MENU**, and then press **<** or **>** to display the **SET UP** menu.



- 2 Press **▽** or **△** to select **Manual setting**, then press **OK**.
- 3 Press **<** or **>** to select an item, and then press **▽** or **△** to select the item as shown below.



A. Colour system

Confirm that colour system is set to **"A"** (Auto). If not, select **"A"** with **▽** or **△**.

B. External input skip

Press **▽** or **△** to turn the external input skip option on **"↔"** or off **"↔"**.

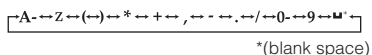
The input set to skip is greyed out in the Inputs selection window and skipped over when you press **➔** on the remote control.

C. Label

The label allows you to label each input source for your TV.

To change or create labels:

- 1) Press **▽** or **△** repeatedly to select a character for the first space, then press **<** or **>**.



- 2) Repeat step 1) to enter the rest of the characters. If you would like a blank space in the label name, you must choose a blank space from the list of characters.

Press **OK** to store your settings.

Note:

When **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu is set to **On**, this feature is not available.

Channel List

- 1 Press the **LIST** button. The **Channel List** will appear.



- 2 Press **▽** or **△** to select a channel, and then press **OK** to watch.

Using REGZA-LINK

This feature uses CEC (Consumer Electronics Controls) technology and allows the control of Toshiba REGZA-LINK compatible devices from the TV remote control via HDMI connection (see page 37).

Note:

Not all Toshiba products currently support REGZA-LINK.

REGZA-LINK one touch play

When a connected device is turned on, REGZA-LINK will automatically detect the TV through the input selection. If the TV is in standby, it will be turned on automatically. This feature is selected in the **REGZA-LINK Setup** menu.

Note:

Even if the device is showing a menu, the TV may automatically show the video input source on-screen display.

REGZA-LINK system standby

This feature automatically turns the connected device into standby when the TV goes into standby and conversely for the TV to switch into standby when the connected device goes into standby.

REGZA-LINK system audio control

Using the **Speaker Preference** feature allows the TV remote control to adjust the volume or mute the sound of the speakers connected to the TV via an AV amplifier.

Ensure that the connected AV amplifier and REGZA-LINK device are selected in the input source selection and that the **Speaker Preference** is set to **Amplifier** in the **REGZA-LINK Setup** menu or in the **Quick Menu**.

Notes:

- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected. Turn the TV first to standby and on again to output the sound from the TV's speaker.
- The proper function may not work by operating AV amplifier.
- The above functions are dependent on the connected device and TV setting.

REGZA-LINK functions

When the **Enable REGZA-LINK** is set to **On**, it allows the following functions to be enabled by setting them to **On**.

• TV Auto Power

If a REGZA-LINK device is turned on or off, the TV turns on or standby automatically.

• Auto Standby

If the TV is set to standby, the TV will send a message to turn off the selected REGZA-LINK device connected to the TV.

• Speaker Preference

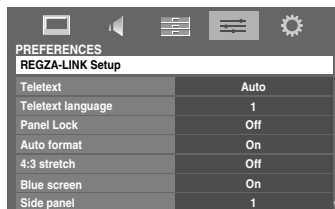
From this item, you can set your audio output preference to the TV speakers or the AV amplifier speakers. When this item is set to **Amplifier**, the TV remote control can be used to adjust or mute the volume of the audio.

Notes:

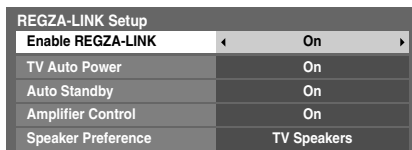
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected. Turn the TV to standby and on again to output the sound from the TV's speakers.
- The above functions are dependent on the connected device and TV setting.

To set the REGZA-LINK Setup

- 1 From the **PREFERENCES** menu, press ∇ or Δ to select **REGZA-LINK Setup**.



- 2 Press OK , press ∇ or Δ to select **Enable REGZA-LINK**, then press \triangleleft or \triangleright to select **On**.



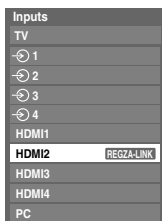
Note:

If you set **Enable REGZA-LINK** to **Off**, the all other items will be greyed out.

- 3 Press ∇ or Δ to select the **REGZA-LINK Setup** item you want to use, and press \triangleleft or \triangleright to select **On/Off** or the desired speakers mode.
 - **TV Auto Power: On/Off**
 - **Auto Standby: On/Off**
 - **Amplifier Control: On/Off**
 - **Speaker Preference: TV Speakers/Amplifier**

REGZA-LINK input source selection

When any devices using CEC technology has connected, **REGZA-LINK** icon shows on the input source list.



To select the REGZA-LINK input source, refer to “Selecting the video input source to view” on page 26.

Notes:

- This function depend on the devices connected.
- When the TV is switched on, it will take a few minutes for the **REGZA-LINK** icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected device is changed or HDMI cable from connected device setting are changed, **Enable REGZA-LINK** in the **REGZA-LINK** menu may need to be reset **On**.

To control the REGZA-LINK device

First select the **HDMI** input source with the desired REGZA-LINK device connected, then switch the mode on the remote control to **REGZA-LINK** and press the available button on the remote control (see page 12).

The TV features that can be controlled by the connected device remote control are:

Power standby, Volume, Programme channel, Sound mute, Input selection, Number buttons, Previous programme channel etc.

Note:

These functions are dependent on the connected device. Not all the remote control buttons may be available. Please refer to the owner's manual for all the connected devices.

REGZA-LINK PC link

This feature automatically adjusts the suitable widescreen formats and picture preferences, when connected to a REGZA-LINK PC.

Note:

This feature depends on the connected equipment state.

Teletext

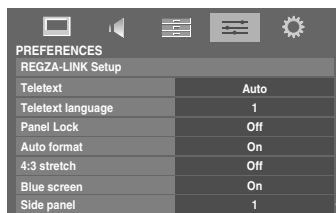
This TV has a multi-page teletext memory, which takes a few moments to load and it offers two ways of viewing Teletext **Auto** and **List** which are explained below.

Setting up the teletext mode

To select a language for teletext:

The language 1-4 option enables the display of different language when using Teletext.

- 1 Press **MENU**, then press ◀ or ▶ to display the **PREFERENCES** menu.



- 2 Press ▼ or ▲ to select **Teletext language**, then press ◀ or ▶ to select the required language.

- **Language 1:** English, German, Dutch, Flemish, Russian, Bulgarian, Ukrainian, Lettish, Lithuanian, Czech, Slovak, Estonian
- **Language 2:** Polish, German, Dutch, Flemish, Estonian, Lettish, Lithuanian, French, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian
- **Language 3:** English, French, Hebrew, Turkish, Arabic
- **Language 4:** English, French, Hebrew, Turkish, Farsi (Iranian/Persian)

To select teletext mode:

Select a channel position with the desired teletext service.

- 1 From the **PREFERENCES** menu, press ▼ or ▲ to select **Teletext**.

- 2 Press ◀ or ▶ to select **Auto** or **List** mode.

Notes:

- It may take a few moments for the multi-page teletext memory to load.
- You must exit teletext mode in order to display the main menu.

Teletext general information

TEXT button:

Pressing **TEXT** once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change channels. When you first press **TEXT** to access the text service, the first page you see will be the initial page.

In **Auto** mode, this displays the main subjects available and their relevant page numbers.

In **List** mode, you will see the page numbers currently stored on the **each colour** button.

Sub-pages:

Once in this chosen page, if there are sub-pages they will automatically load into memory without changing the one you are reading. If there are many sub-pages, it will take a long time for them all to load and this will depend on the speed with which the broadcaster transmits them.

To access the sub-pages in memory, press **◀** or **▶** to view them.

Using Subtitles

- 1 Press **SUBTITLE** on the remote control to display the current Subtitle status. While this status is displayed, press again to change the setting.

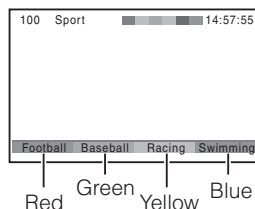
Note:

If **Subtitle** is On, the TV will always display subtitles whenever such information is available for the channel you are viewing.

Using Auto mode

There are two Modes: **Auto** will display FASTEXT, if available. **List** will display your four favorite pages. In either mode, as an alternative to the coloured buttons, you can access a page by entering a 3-digit number, using the **Number** buttons on the remote control, or to advance to the next page, press **P▲**, to go back to the previous page press **P▼**. To change between **Auto** and **List**, see above.

- Press **TEXT** to access teletext.



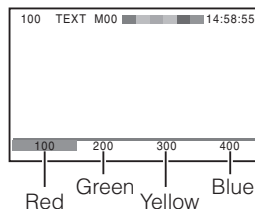
If FASTEXT is available, you will see 4 coloured titles at the base of the TV screen. To access any given subject, simply press the relevant coloured button on the remote control.

If FASTEXT is not available, you can access any page simply by entering a 3-digit page number or pressing the corresponding coloured button.

For further information on your particular text system(s), see the broadcast teletext index page or consult your local Toshiba dealer.

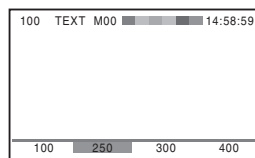
Using List mode

- 1 Press **TEXT** to access teletext.



The four choices at the bottom of the screen are now number – **100, 200, 300** and **400**, which have been programmed into the TV's memory.

- 2 To view these pages, use the coloured prompt buttons.
e.g. press the Green button to view page 200.
- 3 If you want to change these stored pages, press the coloured button for the colour you want to change.
e.g. Press the Green button and enter the 3-digit number.



This number will change and blinking.

- 4 Press **OK** to store your choice.
- 5 You may view other pages by simply entering the 3-digit page number – but NEVER press **OK** or you will lose the favorite already stored.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

TEXT To display a page of teletext:

Press **TEXT** to display teletext. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode.

≡i To display an index/initial page:

In Auto-mode

Press **≡i** to access the index page. The one displayed is dependant on the broadcaster.

In List-mode

Press **≡i** to return to the 100 page or initial page.

≡? To reveal concealed text:

Some pages cover topics such as quizzes and jokes. To discover the solutions, press **≡?**.

≡x To hold a wanted page:

This function is included as it is part of the broadcast teletext system but you will not need it as this TV allows you to control the display of sub-pages.

≡⇅ To enlarge the teletext display size:

Press **≡⇅** once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

⏪/EX To select a page while viewing a normal picture:

When in teletext mode, if a page selection is made and then **⏪/EX** is pressed, a normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen.

Press **TEXT** to view the page.

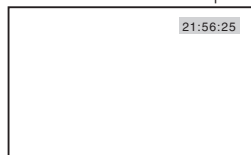
Note:

*It will not be possible to change programme position while in Teletext mode, you will have to cancel the teletext first by pressing **TEXT** to return to a normal TV picture.*

To select the time display:

If you press **⏪/EX** while watching a normal TV broadcast, you will see a time display from the broadcaster. It will remain on the screen for about 5 seconds.

9:56 and 25 seconds p.m.



Note:

*If you press **▼** while this mode is activated, this mode will be cancelled.*

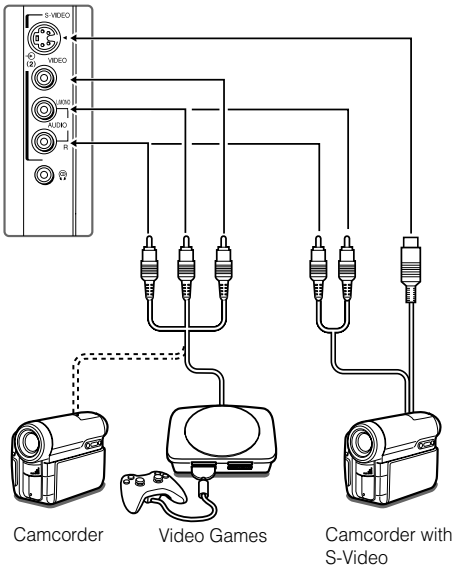
Connecting your TV

Side connections

You can connect a wide variety of auxiliary equipment via the terminals located on the right side of the panel **(2)**. Please always refer to the owner's manual of the equipment to be connected for full details.

Connection example

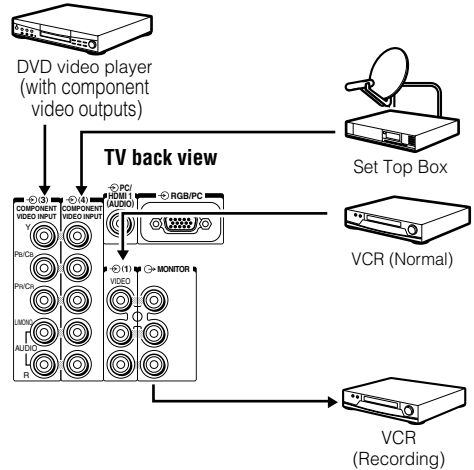
TV right side view



- To select the side inputs, press **(2)** until the video input mode list appears on the screen, then press **▽** or **△** to select **(2)** (see page 26), then press **(OK)**.
- Before connecting any external equipment, turn off all main power switches.
- If you connect both of the **S-VIDEO** input terminal and **VIDEO** input terminal, the **S-VIDEO** signal will appear on the screen (display changes to **(2S)**).
- If you connect mono sound equipment to **(2)**, connect the audio output of the equipment to the **L/MONO** jack on the TV.
- You can enjoy Video Games with this TV. However shooting games, where the player shoots at a target on the TV screen with a light gun, may not work because of the LCD Colour TV properties.

Back connections

Connection example



- Before connecting any external equipment, turn off all main power switches.
- The unauthorized recording of television programmes, DVDs, video tapes and other materials may infringe upon the provisions of copyright law.
- The **COMPONENT VIDEO INPUT** consists of three component video signals (**Y**, **Pb/Cb**, **Pr/Cr**) and provides the best picture performance. These terminals can only be used with the component video compatible equipment e.g. DVD video player, etc.
- Additional equipment and cables shown are not supplied with this TV.

Connecting HDMI or DVI devices

- When turning on your electronic components, turn on the TV first, and then the HDMI and DVI device.
- When turning off your electronic components, turn off the HDMI and DVI device first, and then the TV.
- This TV may not be compatible with features and/or specifications that may be added in the future.
- This TV is only operable with L-PCM on 32/44.1/48 kHz and 16/20/24 bits. If there is no sound when using HDMI, use the analogue audio cables to connect the TV and the HDMI device, and select **Analogue** in **HDMI1 audio** of the **AV connection** menu.

- This TV is able to connect with HDMI devices. But it is possible that some HDMI devices may not operate properly with this TV.

Connecting an HDMI or a DVI device

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI device and uncompressed digital video from a DVI device.

This input is designed to accept HDCP programme material in digital from CEA-861-D compliant consumer electronic devices (such as a set top box and DVD player with HDMI and DVI output).

The HDMI input is designed for best performance with 1080i (50 Hz/60 Hz) and 1080p (24/50/60 Hz) high-definition video signals, but will also accept and display 480i, 480p, 576i, 576p, and 720p (50Hz/60 Hz (60 Hz: except for E-EDID)) and VGA (VESA 640 × 480 @ 60/72/75 Hz) signals.

- HDMI: High-Definition Multimedia Interface
- DVI: Digital Video Interface
- HDCP: High-bandwidth Digital Content Protection
- 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.
- E-EDID: Enhanced-Extended Display Identification
- Acceptable PC signal format:
S-VGA: VESA 800 × 600 @ 56/60/72/75 Hz
XGA: VESA 1024 × 768 @ 60/70/75 Hz
W-XGA: VESA 1280 × 768 @ 60/75 Hz
W-XGA: VESA 1360 × 768 @ 60 Hz
S-XGA: VESA 1280 × 1024 @ 60/75 Hz

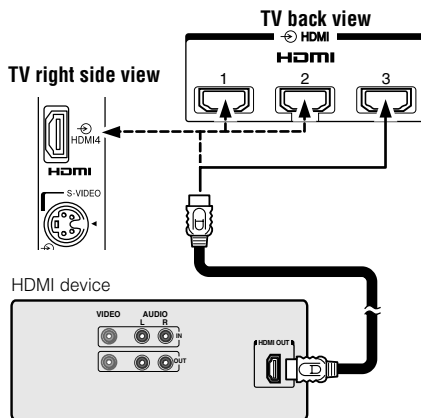
However, these signal formats are converted to match the number of pixels of the LCD panel. Therefore, the TV may not display small text properly.

If you connect this unit to your PC, the compressed image is displayed in S-XGA mode, therefore the picture quality may deteriorate and characters may not be read.

- L-PCM: Linear-Pulse Code Modulation

Connecting an HDMI device

One HDMI cable (type A connector)

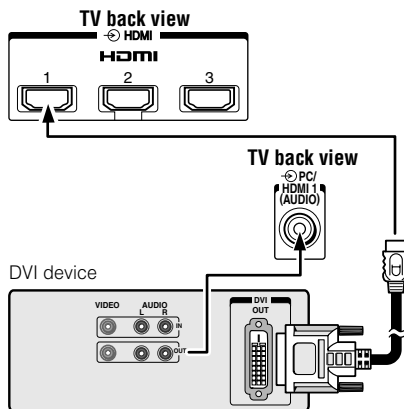


For proper operation, it is recommended that you use a short HDMI cable.

HDMI cable transfers both video and audio.

Connecting a DVI device

One HDMI (type A connector)-to-DVI adapter cable and audio cables



HDMI (type A connector)-to-DVI adapter cable

For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 3m. The recommended length is 2m.

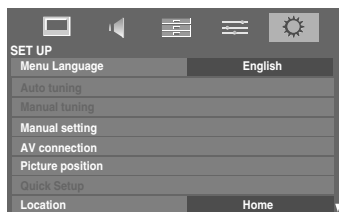
Standard analogue audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analogue audio cables are required.

Selecting the PC/HDMI1 audio mode

You can select PC audio or HDMI audio when using this function.

- 1 Press **MENU**, and then press ◀ or ▶ to display the **SET UP** menu.



- 2 Press ▼ or ▲ to select **AV connection**, and then press **OK** to display the **AV connection** menu.



- 3 Press ▼ or ▲ to select **PC/HDMI1 audio**, then press ◀ or ▶ to select **PC** or **HDMI1**.

Setting the HDMI1 audio mode

You can select sound of an HDMI or DVI device connected to the HDMI input terminals from three modes:

Auto, **Digital** or **Analogue**.

Note:

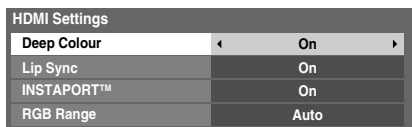
*This function is available only when the PC/HDMI1 audio mode is set to **HDMI1**.*

- 1 From the **AV connection** menu, press ▼ or ▲ to select **HDMI1 audio**.
- 2 Press ◀ or ▶ to select **Auto**, **Digital** or **Analogue**.

Selecting the HDMI settings

The HDMI Settings menu consists of the following 4 items: **Deep Colour**, **Lip Sync**, **INSTAPORT™** and **RGB Range**. Some early HDMI equipment may not work properly with your HDMI TV. If you experience trouble, unplug your HDMI cable first and then try setting the first three options to **Off**. This should allow your early HDMI source to operate properly with your TV.

- 1 From the **AV connection** menu press ▼ or ▲ to select **HDMI Settings**, and then press **OK**.



- 2 Press ▼ or ▲ to select each item, and then press ◀ or ▶ to select the desired setting.

Deep Colour mode

This function increases the available colours from the HDMI source to expand the boundaries defined by the RGB or YCbCr colour space.

Lip Sync mode

This option activates an audio/video display timing adjustment function that allows HDMI source devices to accurately perform synchronization automatically.

All of the above HDMI settings require a proper HDMI source device.

If HDMI source products do not support these functions, the TV may not work properly when activating these functions.

INSTAPORT™ mode

This feature reduces the lag time when switching HDMI sources.

RGB Range mode

This feature adjusts RGB full range signal automatically.

When **Limit** is selected, RGB output signal is output in the range from 16 to 235. When **Full** is selected, RGB output signal is output in the range from 0 to 255.

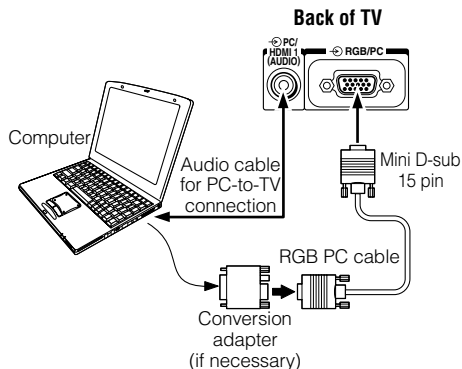
Notes:

- In a non-HDMI signal mode, this function is not available.
- If your HDMI connection is capable of 1080p and/or your TV is capable of refresh rates greater than 60Hz or supports Deep Colour, you will need a Category2 cable. Conventional HDMI/DVI cables may not work properly with this mode.

Connecting a computer

To connect a PC to the RGB/PC terminal on the TV:

An analogue RGB (15 pin) computer cable can be connected.



Connect a PC cable from the computer to the **RGB/PC** terminal on the back of the TV.

The following signals can be displayed:

- VGA: VESA 640 × 480 @ 60/72/75 Hz
- S-VGA: VESA 800 × 600 @ 56/60/72/75 Hz
- XGA: VESA 1024 × 768 @ 60/70/75 Hz
- W-XGA: VESA 1280 × 768 @ 60/75 Hz
- W-XGA: VESA 1360 × 768 @ 60 Hz
- S-XGA: VESA 1280 × 1024 @ 60/75 Hz

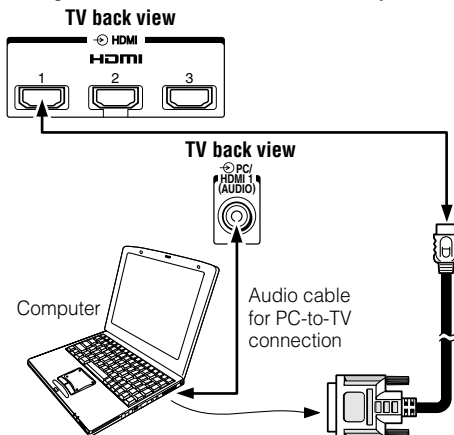
Notes:

- Some PC models cannot be connected to this TV.
- If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.
- There is no need to use an adapter for computers with DOS/V compatible mini D-sub 15 pin terminal.
- A bar may appear in the upper, lower, right or left side of the screen, or parts of the picture may be obscured depending on some signals. This is not the malfunction.
- If the edges of the picture are stretched, readjust the picture position adjustments in the **PC Setting** menu.
- Depending on the specification of the PC you are playing the DVD-Video on, and the DVD's title, some scenes may be skipped, or you may not be able to pause during multi-angle scenes.

To connect a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to DVI adapter cable and analogue audio cables.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analogue audio cables are not necessary.



For acceptable PC signal format, see page 33.

Notes:

- The edges of the images may be hidden.
- If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.

Signal names for mini D-sub 15 pin connector

Pin assignment for RGB/PC terminal



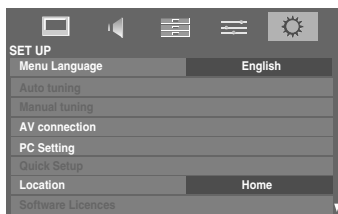
Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	B	11	NC
4	NC (not connected)	12	NC
5	NC	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

Using the PC setting

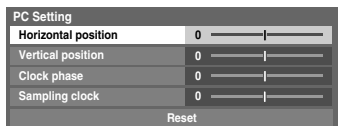
- Most of the picture controls and functions are available. However features not available will be greyed out.
- In the PC input mode, the **Manual setting** (🔧 page 27) is not displayed.
- First press (⊙) until the video input mode list appears on the screen, then press ▾ or ▲ and (OK) in order to select the PC input mode (🔧 page 27).
- This function may not be available for some signal or if no signal is received.
- The optimum points of the clock phase and sampling clock adjustments may be incomprehensible according to the input signals.

Adjusting the picture position

- 1 Press **MENU**, then press ◀ or ▶ to display the **SET UP** menu.



- 2 Press ▾ or ▲ to select **PC Setting**.
- 3 Press (OK) to display the **PC Setting** menu.



- 4 Press ▾ or ▲ to select an option you want to adjust. Press ◀ or ▶ to adjust the settings as required.



Adjusting the clock phase of the picture

If the clock phase, which synchronizes the PC signal and LCD display, is not optimized, the picture will blur.

This function enables you to adjust clock phase and display a clear picture.

- 1 From the **PC Setting** menu, press ▾ or ▲ to select **Clock phase**.
- 2 Press ◀ or ▶ to obtain a clear picture.



Adjusting the sampling clock

If the sampling clock does not match with the dot clock frequency of the PC, blurred picture detail will occur, or screen width will change, or drift patterns in vertical lines may be apparent. This function enables you to adjust it and optimize the picture.

- 1 From the **PC Setting** menu, press ▾ or ▲ to select **Sampling clock**.
- 2 Press ◀ or ▶ to optimize the picture.



Resetting the PC setting

The Reset function adjusts the PC Setting to the factory settings.

- 1 From the **PC Setting** menu, press ▾ or ▲ to select **Reset**.
- 2 Press (OK).

Note:

When a PC is connected using HDMI none of these function will be available.

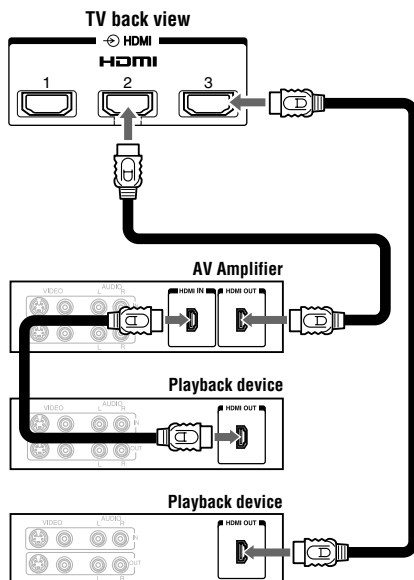
REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 27-29.

Before controlling the device(s):

- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (▶ page 28).
- The connected devices must also be set. For details, see the owner's manual for each device.

Connection example



Notes:

- If several devices are connected, REGZA-LINK feature may not operate properly.
- The REGZA-LINK function uses the CEC technology as regulated by the HDMI standard.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI).
- This function is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual owner's manuals for compatibility information.
- This function will be able to operate one PC and one AV amplifier. But PC may not operate properly with the AV amplifier. Some PC models may not be effect properly by the TV.

Using the Media Player

The TV allows you to enjoy photos stored on a USB device or an SD memory card.

Notes:

- Do not insert/remove a USB device while in use.
- **MENU** is not available during playback.

Media Player Specifications

Device

USB device:
 USB Mass Storage Class devices (MSC)

Notes:

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

SD memory card:

SD memory card: up to 2GB
 SD High-Capacity Card (SDHC): 4 - 32GB

Note:

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

Supported file system

FAT12, FAT16 and FAT32

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

Basic operation

Auto Start:

- 1 From the **APPLICATIONS** menu, highlight **Media Player** and press **OK**.



- 2 Press **▽** or **△** to highlight **Auto Start**.
- 3 Press **◀** or **▶** to select **On**.
- 4 Insert a USB device into the **USB** terminal or an SD memory card into the **SD card slot** on the right side of the TV.
- 5 A confirmation message will appear. Highlight **Yes**, and then press **OK**.
- 6 Press **▽** or **△** to select **Photo**, and then press **OK**. The thumbnail window of files will appear.

- 7 Press **▽** or **△** to select the USB device or SD memory card if the selection screen is displayed.

Note:

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

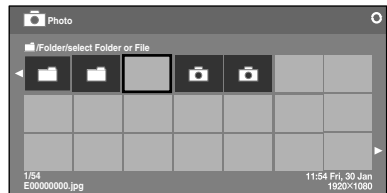
Manual Start:

- 1 Insert a USB device into the **USB** terminal or an SD memory card into the **SD card slot** on the right side of the TV.
- 2 Press **▽** or **△** and highlight **Media Player**, and then press **OK**.
- 3 Press **▽** or **△** to select **Photo**, and press **OK**. The thumbnail window of files will appear.
- 4 Press **▽** or **△** to select the USB device or SD memory card if the selection window is displayed.

Viewing JPEG files

To view in Single View mode:

- 1 When the thumbnail window appears after starting the Media Player, press **▽**, **△**, **◀** or **▶** to select a file or folder. If there are more pages in the list, press **P▲** or **P▼** to move to the previous or next page.



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

To view in Slide Show mode:

- 1 To switch to Slide Show mode, press **OK** during Single View mode.

Note:

To return to Single View mode, press **OK** again.

- 2 Press **▶** to view the next file, or press **◀** to view the previous file.

3 Press **(OK)** to return to Single View mode.

To set the Slide Show mode settings:

- 1** Press **(QUICK)** during Slide Show mode.
- 2** Press **▽** or **△** to highlight the item.
- 3** Press **◀** or **▶** to adjust the setting.
- 4** Press **(QUICK)** or **(RETURN)** to return to Slide Show mode.

Item	Description
Picture Mode	To offer choice of the personalized picture style (see page 19).
Interval Time	To set a time interval to view photos (3sec, 5sec, 10sec, 15sec, 30sec, 60sec, or 90sec).
Repeat	To display photos in the same directory repeatedly. On/Off

To rotate the image:

While viewing the image in Single View mode, press **△** to rotate the image 90 degrees clockwise, press **▽** to rotate the image 90 degrees counterclockwise.

To return to the thumbnail window:

Press **(RETURN)** during Single View mode or Slide Show mode.

To display file status information:

- 1** Press **(F1)**. The following information will be displayed at the bottom of the screen.
 - File number/Total number of files (only for files stored in the same directory)
 - Photo title
 - Date and time taken
 - File size
 - Slide Show icon (if applicable)
 - Repeat play icon (if applicable)
 - Operation guide
- 2** Press **(F1)** again to remove the information from the screen.

Note:

The file status information will disappear after about 6 seconds.

File Compatibility:

Data compatibility: JPEG Exif ver 2.2

File format: DCF ver 1.1

Maximum photo size: 9 MB

Total number of pixels: 10,000,000

Total number of files: Less than 2000 per folder

To close the Media Player:

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

Troubleshooting

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

Symptom and solution

TV will not turn on

- Make sure the power cord is plugged in, and then press $\odot/1$ or \odot .
- The remote control batteries may be dead. Replace the batteries.

No picture, no sound

- Check the aerial connections.

No sound, picture OK

- The sound may be muted. Press $\triangle +$, $-$ or \otimes .
- The station may have broadcast difficulties. Try another channel.

Poor sound, picture OK

- The station may have broadcast difficulties. Try another channel.

Poor picture, sound OK

- Check the aerial connections.
- The station may have broadcast difficulties. Try another channel.
- Adjust the **PICTURE** menu.

Poor reception of broadcast channels

- Check the aerial connections.
- The station may have broadcast difficulties. Try another channel.
- Make sure the **Colour system** is properly set.

Teletext problems

- Check the aerial connections.
Good performance of text depends on a good strong broadcast signal.

The brightness of the screen comes down, or flickers of the screen are caused, or some parts of the screen do not light up.

- When you just buy and start to use this TV, a flickering may be caused in the screen. In this case, switch off the TV, then switch on it again to cure the condition.
- The cold cathode fluorescent lamp used for the back light on this TV has longevity. When the brightness of the screen comes down, or the flickers of the screen are caused, or some parts of the screen do not light up, it may reach the end of its life. Contact a service technician.

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.

The picture brightness varies when you display switch the TV on.

- If you switch the TV on at 0°C and under, wait until the warms up.

Multiple images

- The station may have broadcast difficulties. Try another channel.
- Aerial reception may be poor. Use a high directional outdoor aerial.
- Check if the direction of the aerial has changed.

Poor colour or no colour

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Colour** in the **PICTURE** menu.

The remote control does not operate

- Make sure the remote control is set to the correct device mode.
- Remove all obstructions between the remote control and the remote control sensor on the TV.
- The remote control batteries may be dead. Replace the batteries.

No REGZA-LINK operation

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

Broadcast system

Broadcast transmission systems of each country or region

Asia M.E.

Country or region	Colour	Sound
Bahrain, Kuwait, Israel, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, etc.	PAL	B/G
China, Vietnam	PAL	D/K
China Hong Kong	PAL	I
Iraq, Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM	B/G
Russian Federation, etc.	SECAM	D/K

Oceania

Country or region	Colour	Sound
Australia, New Zealand, etc.	PAL	B/G

Africa

Country or region	Colour	Sound
Republic of South Africa, etc.	PAL	I

Note:

PAL, SECAM and NTSC 3.58 (MHz) are different colour signal broadcast transmission systems applicable to different countries or region. NTSC 4.43 (MHz) is used in special VCRs to playback NTSC recorded video tapes through PAL television equipment.

Specifications

LCD colour television

Model

42ZV600E, 42ZV600T, 42ZV600Y
47ZV600E, 47ZV600T, 47ZV600Y
55ZV600E, 55ZV600T, 55ZV600Y

Power source

42ZV600E, 47ZV600E, 55ZV600E:
220V-240V AC, 50/60Hz
42ZV600T, 47ZV600T, 55ZV600T:
110V-240V AC, 50/60Hz
42ZV600Y, 47ZV600Y, 55ZV600Y:
220V-240V AC, 50Hz

Power consumption

42ZV600E/T/Y: 195 W, 0.7 W (standby)
47ZV600E/T/Y: 225 W, 0.7 W (standby)
55ZV600E/T/Y: 300 W, 0.7 W (standby)

Dimensions

42ZV600E/T/Y:
1,058 mm (W) 724 mm (H) 329 mm (D)
47ZV600E/T/Y:
1,176 mm (W) 792 mm (H) 329 mm (D)
55ZV600E/T/Y:
1,362 mm (W) 901 mm (H) 396 mm (D)

Mass (Weight)

42ZV600E/T/Y: 25.0 kg
47ZV600E/T/Y: 29.0 kg
55ZV600E/T/Y: 40.0 kg

Television system (Aerial input)

Channel coverage:

PAL	B/G (CCIR)	VHF	2 - 12
		UHF	21 - 69
		CATV	X - Z+2, S1 - S41
PAL	I (UK)	VHF	-
		UHF	21 - 69
		CATV	-
PAL	D/K (CHINA)	VHF	1 - 12
		UHF	13 - 57
		CATV	Z1 - Z38
SECAM	B/G (CCIR)	VHF	2 - 12
		UHF	21 - 69
		CATV	X - Z+2, S1 - S41
SECAM	D/K (OIRT)	VHF	1 - 12
		UHF	21 - 69
		CATV	X1 - X19

Special RF signal:

NTSC 4.43 colour system
5.5/6.0/6.5 MHz sound system
PAL 60 Hz colour system
5.5/6.0/6.5 MHz sound system

COMPONENT VIDEO INPUT terminals (the signal format)

480i, 480p, 576i, 576p, 720p (50/60 Hz),
1080i (50/60 Hz)

(These signal formats are converted to match the number of pixels of the LCD panel.)

Colour system

PAL, SECAM, NTSC 3.58/4.43

Aspect ratio

16 : 9

Visible size (diagonal)

42ZV600E/T/Y: 106.7 cm
47ZV600E/T/Y: 119.2 cm
55ZV600E/T/Y: 138.7 cm

Number of pixels

1920 (H) dots x 1080 (V) dots

Audio power

Main 10 W + 10 W
Woofer 30 W

Speakers

Main 65 × 130 mm 2pcs.
Woofer 65 mm 2pcs.
47/55ZV600E/T/Y:
Tweeter Ø32 mm 2pcs.

Input/Output terminals

⊖ (1)	Input	
	Phono jacks	A/V
⊖ (2)	Input	
	4 pin	S-video
	Phono jacks	A/V
⊖ (3)	Input	
	Component video	Y, Pb/Cb, Pr/Cr
	Phono jacks	Audio L/Mono +R
⊖ (4)	Input	
	Component video	Y, Pb/Cb, Pr/Cr
	Phono jacks	Audio L/Mono +R
⊕ MONITOR	Output	
	Phono jacks	A/V
⊖ RGB/PC	Input	
	Mini D-sub 15 pin Analogue RGB	
⊖ PC/HDMI1 (AUDIO)	Input	
	3.5 mm (Diameter) stereo	
⊖ HDMI1	Input (type A)	
	19 pin	A/V Digital
⊖ HDMI2	Input (type A)	
	19 pin	A/V Digital
⊖ HDMI3	Input (type A)	
	19 pin	A/V Digital
⊖ HDMI4	Input (type A)	
	19 pin	A/V Digital
	V.1.3a with Lip Sync	
Headphone jack	3.5 mm (Diameter) stereo	


Operating condition

Temperature 0°C - 35°C
Humidity 20% - 80% (No moisture condensation)

Supplied accessories

Owner's manual (1), Remote control (1),
Batteries (2), Clip (1), Cleaning cloth (1)



This is used to fix the TV to a wall, pillar, etc.
( page 4).

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

TOSHIBA CORPORATION