

# TOSHIBA

Leading Innovation >>>

## Owner's Manual

40/50/58L53\*\*  
DIGITAL Series

**This standard owner's manual is designed to show you how to connect and tune in your Toshiba TV and to operate the most commonly used functions.**

**During the life of your TV firmware updates will be made available to ensure that your TV maintains optimum performance:**

**If your TV is connected to the internet, firmware will be automatically made available.**

**If your TV is not connected to the internet, you can download the latest version of firmware from**

**[www.toshiba-om.net/firmware.php](http://www.toshiba-om.net/firmware.php)**

**If you want to view advanced functions for your TV you can do so by visiting**

**[www.toshiba-om.net](http://www.toshiba-om.net)**

Toshiba estimates that the initiative of making the advanced functions available online will save over 100,000 trees per year (6.5 Million Kg CO<sub>2</sub>).

If you wish to view the advanced functions but do not have access to a computer or the internet then please contact your local owner's manual Helpline number. Contact details are shown at the back of this book.

# Contents

<b>Safety Precautions</b> .....	<b>4</b>	Channel Grouping .....	28
<b>Installation and Important Information</b> .....	<b>5</b>	Common Interface .....	28
Where to install .....	5	<b>Digital On-Screen Information and Programme Guide</b> .....	<b>29</b>
When using a Wall Bracket .....	5	Information .....	29
When using MHL (Mobile High-definition Link) .....	6	On-Screen Information Icons .....	29
<b>The Remote Control</b> .....	<b>7</b>	Guide .....	29
Inserting batteries and effective range of the remote .....	7	<b>General Controls</b> .....	<b>30</b>
<b>Connecting External Equipment</b> .....	<b>8</b>	Selecting Channels .....	30
<b>HDMI CEC Connections</b> .....	<b>10</b>	Stereo and Bilingual Transmissions .....	30
<b>Connecting an HDMI or DVI Device to the HDMI Input</b> .....	<b>11</b>	Quick Access Menu .....	30
To connect an HDMI device .....	11	Subtitles .....	30
To connect a DVI device .....	13	Input Selection .....	30
<b>Connecting a Computer</b> .....	<b>15</b>	<b>Sound Controls</b> .....	<b>31</b>
To connect a PC to the HDMI terminal .....	15	Volume Controls and Mute Sound .....	31
Acceptable Video signals through HDMI terminals .....	17	Dual .....	31
Acceptable PC signals through HDMI terminals .....	17	Bass, Treble and Balance .....	31
<b>Using the Controls</b> .....	<b>18</b>	Stable Sound .....	31
Switching On .....	19	Dynamic Range Control .....	31
Using the Remote Control .....	19	Voice Enhancement .....	31
Using the Controls on the TV .....	19	Bass Boost .....	32
<b>Tuning the Television</b> .....	<b>20</b>	Audio Level Offset .....	32
First Time Using .....	20	Digital Audio Output .....	32
<b>Setting the Channels</b> .....	<b>22</b>	Audio Description .....	33
Auto Tuning .....	22	<b>Widescreen Viewing</b> .....	<b>34</b>
Manual Tuning .....	23	Available Picture Size and Position Control .....	35
Automatic Power Down .....	25	<b>Picture Controls</b> .....	<b>36</b>
Reset TV .....	25	Picture Position .....	36
<b>DTV Settings</b> .....	<b>26</b>	Picture Mode .....	36
Channels .....	26	Picture Preferences .....	36
Subtitle and Audio .....	27	Black/White Level .....	37
Password .....	27	ClearScan .....	37
Parental .....	27	Colour Temperature .....	37
Standby Update Control .....	28	Static Gamma .....	37
Standby Channel Update .....	28	Reset .....	37
		Active Backlight Control .....	37
		Auto Brightness Sensor .....	37
		3D Colour Management .....	38
		Base Colour Adjustment .....	38
		Digital Noise Reduction .....	38
		MPEG NR – Noise Reduction .....	38

<b>Enjoy Photos through USB Port .....</b>	<b>39</b>	3D Format Select.....	54
View Photo Files .....	39	2D Format Select.....	55
Using Slide Show.....	40	3D Auto Start.....	55
Repeat Settings for Slideshow.....	40	2D to 3D Depth .....	55
Set Interval Time .....	40	3D PIN Setup.....	56
Using the Play List .....	40	3D Start Message .....	56
Background Music .....	40	3D Lock.....	56
Photo Info.....	41	3D Timer Lock.....	56
<b>Enjoy Music through USB Port .....</b>	<b>42</b>	Enable 3D Timer .....	56
Play Music Files .....	42	3D Important Info .....	57
Repeat Settings .....	43	Left and Right Image.....	57
Using the Play List .....	43	<b>Caution and Other Information</b>	
Music Info.....	43	<b>for 3D .....</b>	<b>58</b>
<b>Enjoy Videos through USB Port.....</b>	<b>44</b>	Important information for 3D viewing .....	58
Play Video Files .....	45	<b>Preference Controls .....</b>	<b>60</b>
Repeat Settings .....	46	On Timer .....	60
Set .....	46	Sleep Timer.....	60
Using the Play List .....	46	EPG .....	61
Slow Forward .....	46	Panel Lock .....	62
Step Forward .....	46	Auto Format (Widescreen).....	62
Video Info.....	46	4:3 Stretch.....	62
Aspect Ratio.....	46	Blue Screen .....	62
Picture Mode.....	46	Side Panel.....	62
Goto Time .....	47	DivX Registration .....	62
<b>HDMI CEC Control .....</b>	<b>48</b>	DivX Deregistration .....	63
Equipment Control .....	48	System Information .....	63
Select HDMI CEC Device .....	48	Software Upgrade.....	63
<b>HDMI CEC Menus .....</b>	<b>49</b>	<b>Text Services and Text Information ....</b>	<b>64</b>
One Touch Play.....	49	Setting the Modes.....	64
System Standby.....	49	Navigating Pages using Auto.....	64
System Audio Control .....	49	Navigating Pages using LIST.....	64
Enable HDMI-LINK .....	49	Control Buttons .....	64
Auto Power On.....	50	<b>PC Settings .....</b>	<b>65</b>
Auto Standby .....	50	Horizontal and Vertical Position .....	65
Amplifier Control .....	50	Horizontal Width.....	65
Speaker Preference.....	50	Clock Phase.....	65
HDMI CEC Playback Device Control.....	51	Reset.....	65
<b>Using MHL TV Function .....</b>	<b>52</b>	<b>Input Signal Selection .....</b>	<b>66</b>
Connecting an MHL-compatible Device.....	52	Input Signal Selection .....	66
MHL Control.....	52	<b>Frequently Asked Questions .....</b>	<b>67</b>
Operating an MHL-compatible Device.....	53	<b>Specifications and Accessories.....</b>	<b>69</b>
<b>Using 3D Functions .....</b>	<b>54</b>	<b>License Information .....</b>	<b>70</b>
Viewing 3D images .....	54		
Display Mode Select .....	54		

## Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured.

Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products and some points may not apply to the goods you have just purchased.

### Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

### Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

### Mains Supply

The mains supply required for this equipment is 220-240v AC 50Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead. Use only the supplied lead.

DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, 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. IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

### Do

**DO** read the operating instructions before you attempt to use the equipment.

**DO** ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

**DO** consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

**DO** be careful with glass panels on equipment.

**WARNING:** To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See page 5.

**DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.**

**THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.**

### Do Not

**DO NOT** obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

**DO NOT** allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

**DO NOT** place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.



**WARNING:** To prevent the spread of fire, keep candles or other open flames away from this product at all times.

**DO NOT** use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturers' approved stand, bracket or legs with the fixings provided according to the instructions.

**DO NOT** leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, make sure your family know how to do this. Special arrangements may need to be made for people with disabilities.

**DO NOT** continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

**WARNING** – excessive sound pressure from earphones or headphones can cause hearing loss.

**ABOVE ALL** – NEVER let anyone, especially children, push or hit the screen, push anything into holes, slots or any other openings in the case.

These actions will damage screen or internal parts.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

# Installation and Important Information

## Where to install

Locate the television away from direct sunlight and strong lights, soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place the TV set on a stable, level surface that can support the weight of the TV. As an additional safety measure you must secure the TV to the level surface using the mounting screw, as shown in the illustration.

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

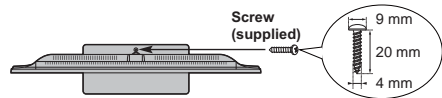
Make sure the television is located in a position it cannot be pushed or hit by objects, as pressure will break or damage the screen. Also, please be certain that small items cannot be inserted into slots or openings in the case.



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

### Cleaning the screen and cabinet...

Turn off the power, and clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.



- Place the stand on a stable, level surface and secure the TV set by using a single screw (supplied) through the fall prevention screw hole.
- Make sure to secure your TV set to a firm and substantial surface.

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

## When using a Wall Bracket

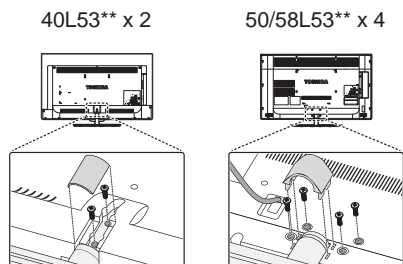
Please use a wall bracket appropriate for the size and weight of the LCD TV.

- Two people are required for installation.
  - To install a wall-mount from another manufacturer.
1. Unplug and remove any cables and/or other connections from the rear of the TV.
  2. Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket.
  3. Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
  4. Always use the screws supplied or recommended by the wall mount manufacturer.

### Removing the Pedestal Stand:

1. Carefully lay the front of the unit face down on a flat, cushioned surface with the stand hanging over the edge.
2. Remove the screws.
3. After the screws are removed, hold the pedestal stand in place, then remove it from the TV by sliding away from the bottom of the TV.

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



## When using MHL (Mobile High-definition Link)

- Interoperability with MHL devices of other manufacturers is not guaranteed.
- Toshiba does not provide any guarantee, therefore, against operational failure such as that described below when an MHL source is connected to the TV.
  - No picture or sound
  - Some of the functions do not work by remote operation from the TV
- If the MHL does not work properly, also contact the manufacturer of the source device for advice on its use.
- Do not disconnect the power plug when the TV is active and the MHL device is being connected.
- Do not disconnect the power plug when the TV is in standby mode and the MHL device is being connected.

### Please take note

#### EXCLUSION CLAUSE



Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- i) fire;
- ii) earthquake;
- iii) accidental damage;
- iv) intentional misuse of the product;
- v) use of the product in improper conditions;
- vi) loss and/or damage caused to the product while in the possession of a third party;
- vii) any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
- viii) any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

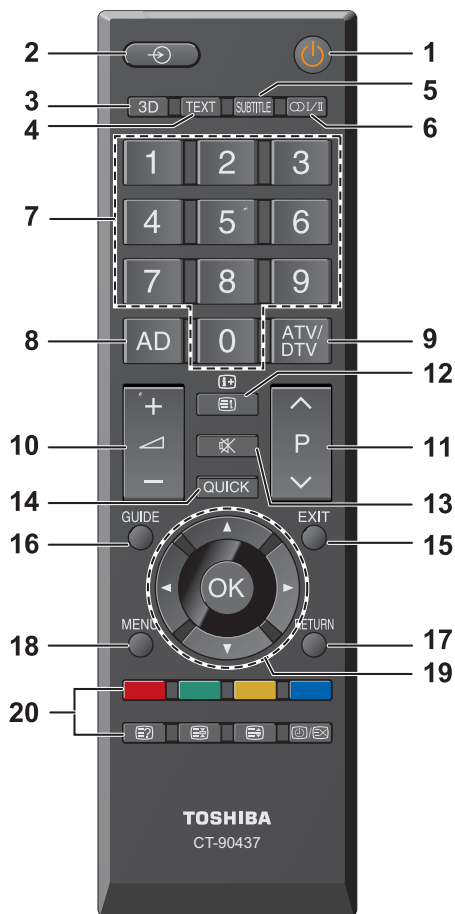
- The digital reception function of this television is only effective in the countries listed in the **Country** section of the **SETUP** menu. Depending on country/area, some of this television's functions may not be available. Reception of future additional or modified services can not be guaranteed with this television.
- If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television-screen for any length of time they could become conspicuous, it is always advisable to reduce both the brightness and contrast settings.
- Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines, this is not a defect of the LCD TV and is not covered under the manufacturer's warranty. Regular use of other size modes (e.g.: Super Live) will prevent permanent retention.

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

SYMBOL	SYMBOL DEFINITION
	<p><b>INSTRUCTIONS:</b> The exclamation point within an equilateral triangle to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.</p>
	<p><b>WARNING:</b> To prevent the spread of fire, keep candles or other open flames away from this product at all times.</p>

# The Remote Control

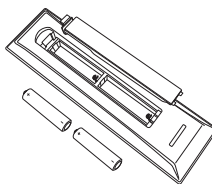
Simple at-a-glance reference of your remote control.



- 1 Switch between TV ON or Standby
- 2 Switch between external input sources
- 3 To switch between 2D/3D modes
- 4 To display the teletext screen
- 5 TEXT subtitle pages if available
- 6 Stereo/Bilingual transmissions
- 7 Number buttons
- 8 Audio Description
- 9 Switch between ATV and DTV
- 10 Change the volume
- 11 Change the channel
- 12 In TV mode: Display on-screen information

- In Text mode: Access the index page
- 13 Mute the sound
- 14 Display the QUICK access menu
- 15 Exit the menu system
- 16 Display EPG
- 17 Go to the previous level of the menu
- 18 Display the on-screen menu
- 19 Menu navigation: ▲, ▼, ◀, ▶:  
 In Text mode: Change the page  
 (OK) Confirm the selection
- 20 Colour button: Text control buttons
  - (E) Reveal concealed text
  - (H) Hold a wanted page
  - (S) Enlarge text display size
  - (H/S) Select a page while viewing a normal picture

## Inserting batteries and effective range of the remote



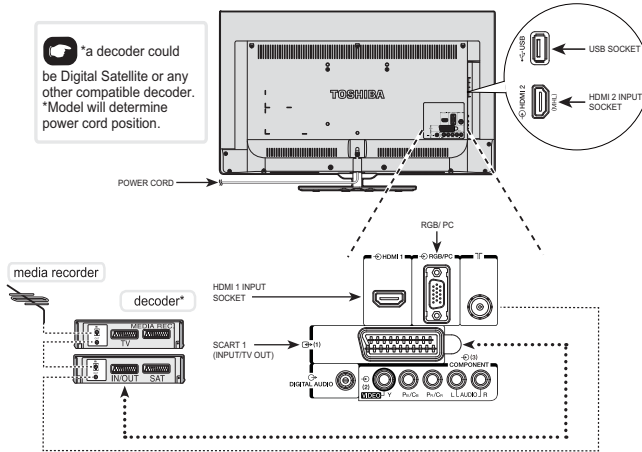
Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Remove exhausted batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 71 of this manual. Warning: batteries must not be exposed to excessive heat such as sunlight or fire.

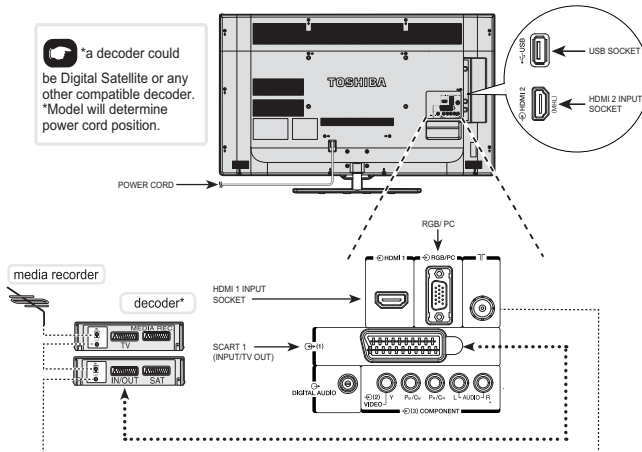
The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced the batteries may need replacing.

# Connecting External Equipment

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



For 40L53\*\*



For 50/58L53\*\*



**Aerial cables:** ----- 

Connect the aerial to the ANT socket on the rear of the television.

If you use a decoder and/or media recorder, connect through the decoder and/or media recorder to the television.

**SCART cables:** ----- 


Connect the video recorder **IN/OUT** or decoder **TV** socket to the television. Connect the media player **SAT** socket to the decoder **MEDIA REC.** socket.

Before running **Auto Tuning** put your decoder and media recorder to **Standby**.

HDMI® (High-Definition Multimedia Interface) is for use with a DVD, decoder or electrical equipment with digital audio and video output. It is designed for best performance with 1080i high-definition video signals but will also accept and display 480i, 480p, 576i, 576p, 720p and 1080p. HDMI1 also support VGA, SVGA, XGA, WXGA and SXGA.

**NOTE:** Although this television is able to connect to HDMI equipment it is possible that some equipment may not operate correctly.

**A wide variety of external equipment can be connected to the back of the television, therefore the relevant owner's manuals for all additional equipment must be referred to.**

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired channel button. To recall external equipment, press  to select.

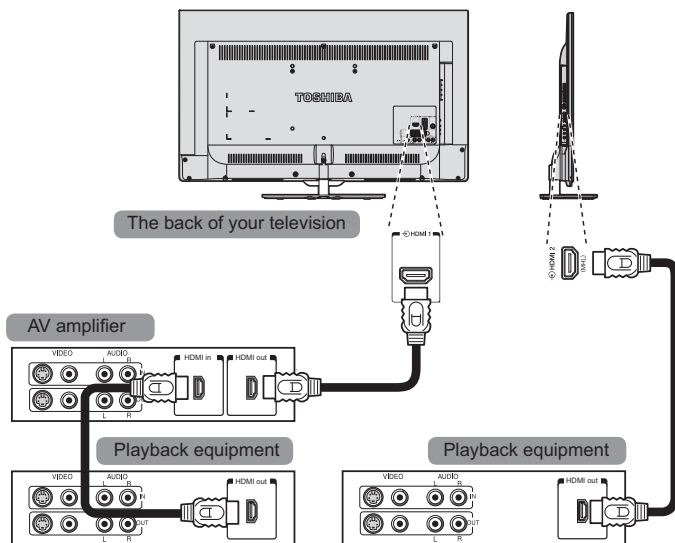
**NOTE:** Due to copy protected signal in some DTV programme, non-scrambled content and scrambled content with "copy freely (CGMS-A: 00)" are available via SCART analog video and audio output.

DTV Programme	SCART Analog Output
Scrambled with CGMS-A: 00 (Copy Freely)	Output via SCART
Scrambled with CGMS-A: 01 (Copy No More)	Not output via SCART
Scrambled with CGMS-A: 10 (Copy Once)	Not output via SCART
Scrambled with CGMS-A: 11 (Copy Never)	Not output via SCART
Non- scrambled	Output via SCART

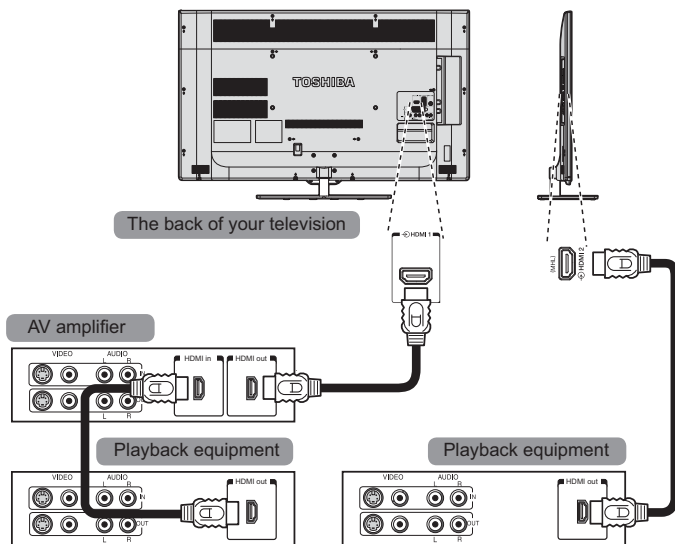
\*CGMS-A (Copy Generation Management System-Analog) is a copy protection mechanism for analog television signals.

# HDMI CEC Connections

The basic functions of connected audio/video equipment can be controlled using the television's remote control if an HDMI CEC compatible device is connected.



For 40L53\*\*



For 50/58L53\*\*

# Connecting an HDMI or DVI Device to the HDMI Input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device or uncompressed digital video from a DVI (Digital Visual Interface) source device. This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant [1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 17.

## NOTE:

- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard.
- Supported Audio format: Linear PCM and Dolby Digital, sampling rate 32/44.1/48kHz.

---

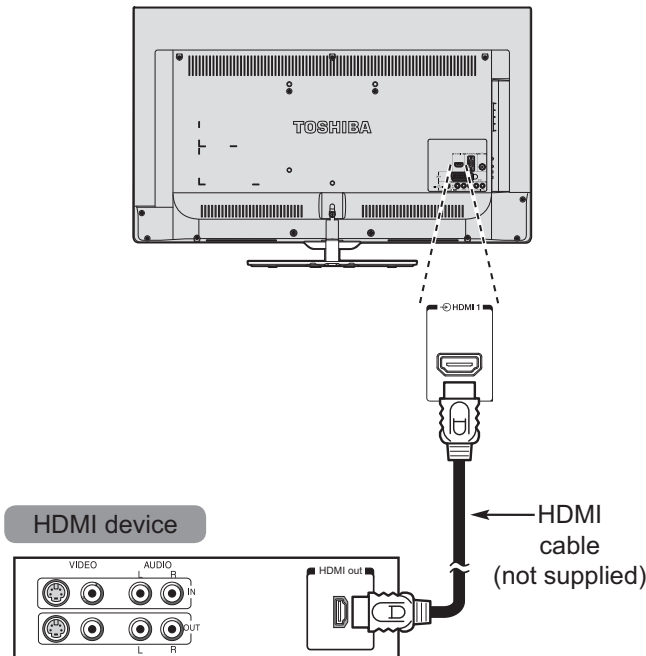
## To connect an HDMI device

---

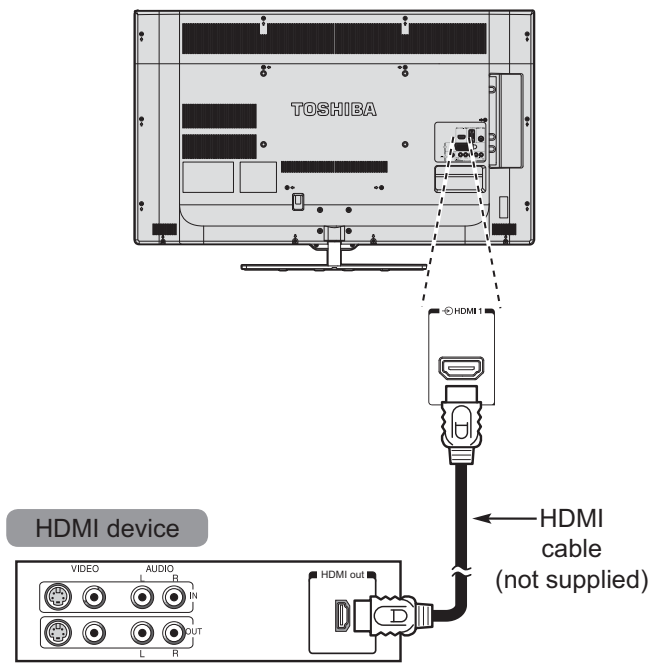
Connect an HDMI cable (type A connector) from the device to the HDMI terminal.

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


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



For 40L53\*\*



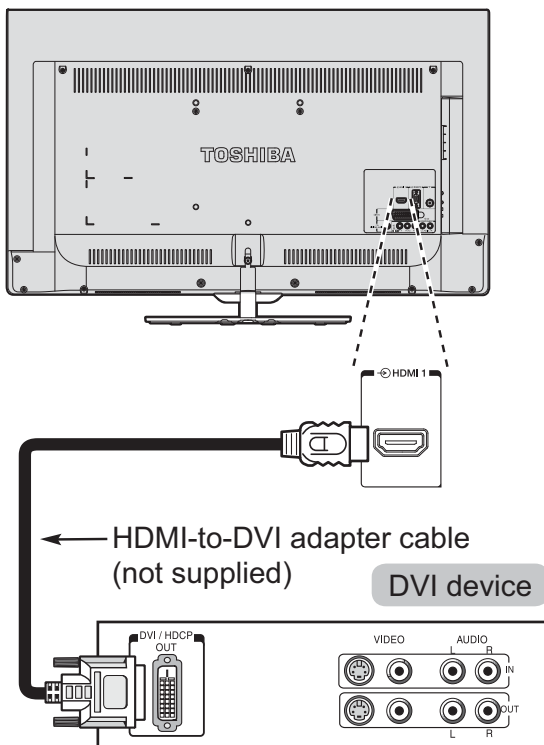
For 50/58L53\*\*

To view the HDMI device video, press the  button to select HDMI 1 or HDMI 2 mode.

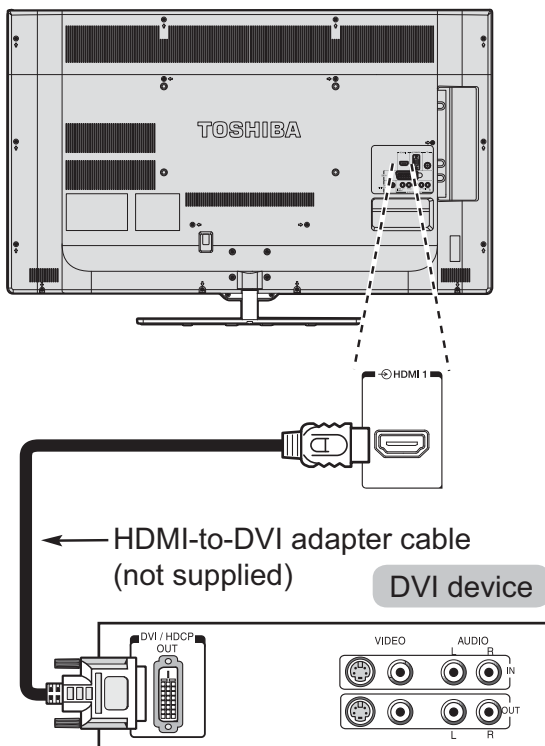
## To connect a DVI device

Connect an HDMI-to-DVI adapter cable (HDMI type A connector) to the HDMI 1.

- The maximum recommended HDMT – DVI cable length is 6.6ft (2m).
- An HDMI-to-DVI adapter cable transfers video only.
- Separate analogue audio connection is not supported for audio receivers.



For 40L53\*\*



For 50/58L53\*\*

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

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

*[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the television.*

*HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.*

## Connecting a Computer

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

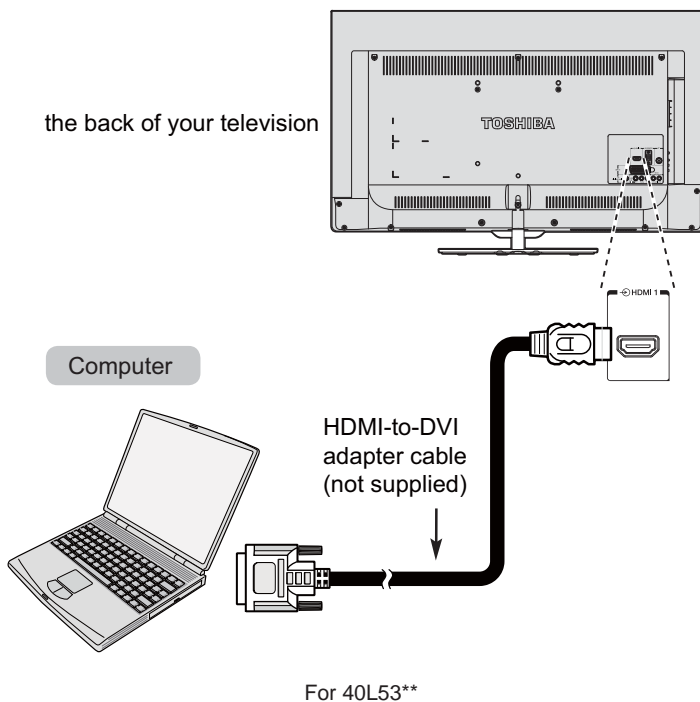
---

### To connect a PC to the HDMI terminal

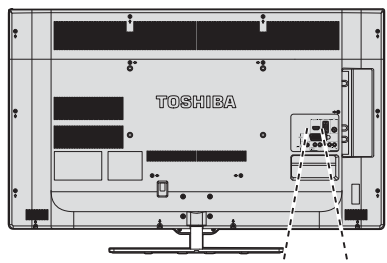
---

When connecting a PC to the HDMI terminal on the television, use an HDMI-to-DVI cable.

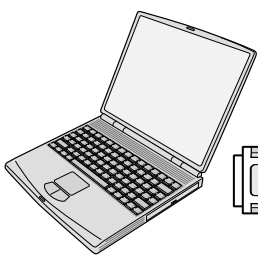
If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). A separate analogue cable is not necessary.



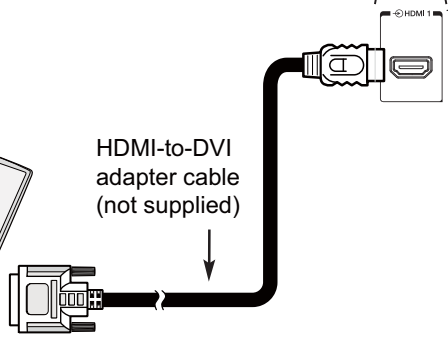
the back of your television



Computer



HDMI-to-DVI  
adapter cable  
(not supplied)



For 50/58L53\*\*

For acceptable PC and video signal formats, see page 17.

**NOTE:**

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



## Acceptable Video signals through HDMI terminals

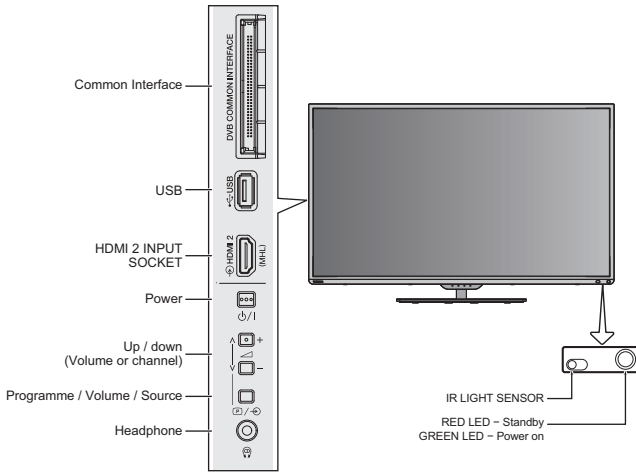
Resolution	H. Frequency (KHz)	V. Frequency (Hz)
480i	15.750	60.000
480p	31.500	60.000
576i	15.625	50.000
576p	31.250	50.000
720p	37.500	50.000
720p	45.000	60.000
1080i	28.125	50.000
1080i	33.750	60.000
1080p	27.000	24.000
1080p	28.125	25.000
1080p	33.750	30.000
1080p	56.250	50.000
1080p	67.500	60.000

## Acceptable PC signals through HDMI terminals

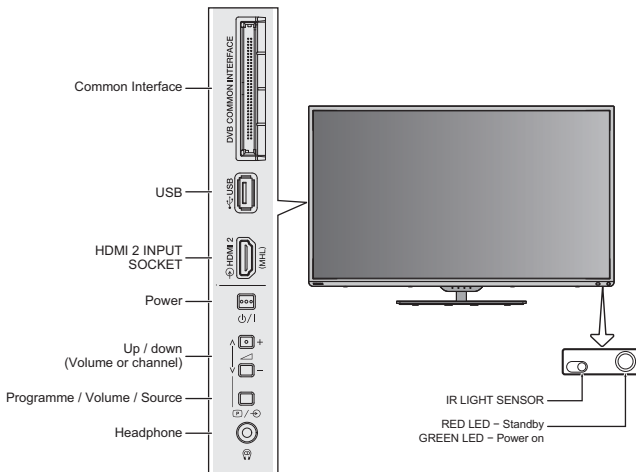
Resolution	H (KHz)	V(Hz)	Pixel Clock (MHz)	H-Polarity	V-Polarity	H-Total	V-Total
640 x 480	31.469	59.940	25.175	Negative	Negative	800	525
640 x 480	37.861	72.809	31.500	Negative	Negative	832	520
640 x 480	37.500	75.000	31.500	Negative	Negative	840	500
800 x 600	35.160	56.250	36.000	Positive	Positive	1024	625
800 x 600	37.879	60.317	40.000	Positive	Positive	1056	628
800 x 600	48.077	72.188	50.000	Positive	Positive	1040	666
800 x 600	46.875	75.000	49.500	Positive	Positive	1056	625
1024 x 768	48.363	60.004	65.000	Negative	Negative	1344	806
1024 x 768	60.023	75.029	78.750	Positive	Positive	1312	800
1280 x 768	47.776	59.870	79.500	Negative	Positive	1664	798
1360 x 768	47.712	60.015	85.500	Positive	Positive	1792	795
1280 x 1024	63.981	60.020	108.000	Positive	Positive	1688	1066
1280 x 1024	79.976	75.025	135.000	Positive	Positive	1688	1066
1920 x 1080	67.500	60.000	148.500	Positive	Positive	2200	1125

# Using the Controls

While all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used control some functions.



For 40L53\*\*






For 50/58L53\*\*

---

## Switching On

---

If the RED Standby LED is unlit, check that the plug is connected to the power supply. If the picture does not appear press  on the remote control, it may take a few moments.

To put the television into Standby press  on the remote control. To view the television press  again. The picture may take a few seconds to appear.

### For energy saving:

We recommend that you use the television with factory settings. These settings are designed for energy saving. Unplugging the mains plug will reduce energy use to zero. This is recommended when the television is not being used for long periods, e.g. when on holiday. Reducing the brightness of the screen will reduce energy use. Energy efficiency reduces energy consumption and can save money by reducing electricity bills.



**NOTE:** Putting the television into standby mode will reduce energy consumption, but will still draw some power.





---

## Using the Remote Control

---

To set up the television you will now need to use the on screen menus. Press **MENU** on the remote control to see the menus.


The on-screen menu appears as a list of five topics. As each symbol is selected by pressing  or  on the navigation ring on the remote control.




To use the options, press  to enter the sub menu. Then press  or  on the navigation ring to move up and down through the menu and use  to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout this manual.





---

## Using the Controls on the TV

---

Press  to adjust volume.

Press  /  to change programme selection, then press  to adjust programme selection.

Press and hold  /  until Source List is displayed, then press  /  to scroll through the list until desired input source is located.

*Please always refer to the owner's manual of the equipment to be connected for full details.*


**NOTE:** Inserting the headphone plug will mute the sound from all speakers.

# Tuning the Television

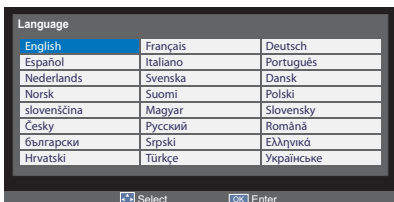
Before switching on the television put your decoder and media recorder to Standby if they are connected.

To set up the television use the buttons on the remote control as detailed on page 7.





## First Time Using

- 1 For first time use, plug in the television and press the  button.





The **Language** menu will appear.

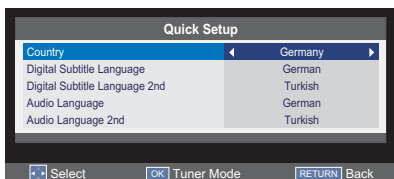






**NOTE:** This function is accessed in the **SETUP → Quick Setup** menu.


- 2 Press , ,  or  to select your language.

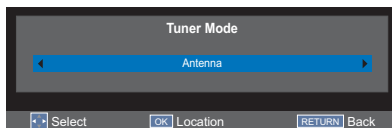
Press  to enter **Quick Setup** menu.

- 3 Press  or  to select **Country** and then press  or  to select your country.



- 4 Press  or  to select **Digital Subtitle Language**, **Digital Subtitle Language 2nd**, **Audio Language** and **Audio Language 2nd**, then press  or  to select your preferred language.



- 5 Press  to select **Tuner Mode**.

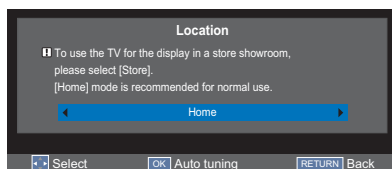


Press  or  to select **Antenna** or **Cable**.

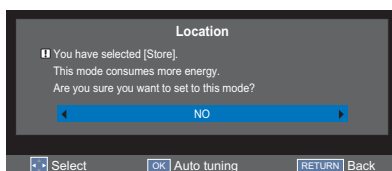
**NOTE:** This function is only available in certain regions.



Press  to select **Location**.

- 6 Press  or  to select **Home** or **Store**. For normal home use, select **Home**.



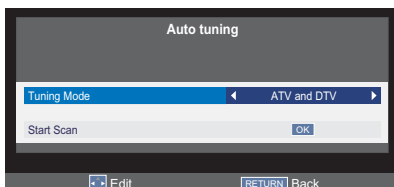
When **Store** is selected, the confirmation window appears.



Press  or  to select **YES** or **NO**.

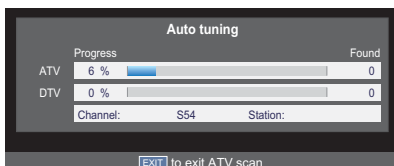
- 7** Press **OK** to enter the **Auto tuning** menu.

**NOTE:** Please make sure the aerial is connected to the TV before tuning.



Press **▲** or **▼** to select **Tuning Mode** and then press **◀** or **▶** to select **ATV**, **DTV** or **ATV and DTV**.

Press **▲** or **▼** to select **Start Scan** and press **OK**.



The search will begin for all available stations. The slide bar will move along the line as the search progresses.

**You must allow the television to complete the search.**

When the search is complete the television will automatically select channel 1. This may not be a clear picture or the signal may be weak, so the station order can be changed using **ATV/DTV Manual Tuning** in the **SETUP** menu.

# Setting the Channels

**NOTE:** When **Parental Block** is activated, the 4-digit password is needed.

## Auto Tuning

The **Auto tuning** function will completely re-tune the television and can be used to update the channel list.

**NOTE:** It is recommended that **Auto tuning** is run periodically to ensure that all new services are added.

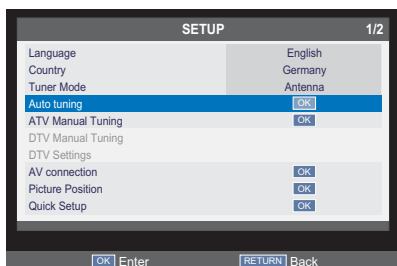
**NOTE:** All the current channels and settings, for example, the locked channels, will be lost.

### Tuner Mode - Antenna

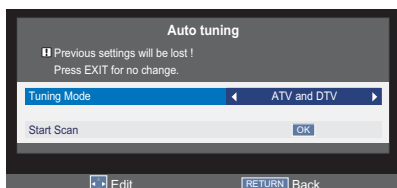
- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the submenu.



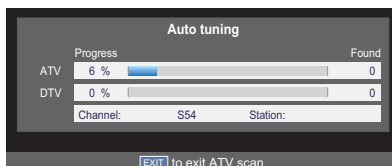
- 2 Press ▲ or ▼ to select **Auto tuning**, and press **OK** to enter the submenu.



- 3 Press ▲ or ▼ to select **Tuning Mode** and press ◀ or ▶ to select **ATV, DTV** or **ATV and DTV**.



Press ▲ or ▼ to select **Start Scan** and press **OK** to start **Auto Tuning**.



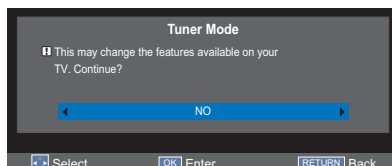
### Tuner Mode - Cable

Switching between tuner modes will change the features available on your television.

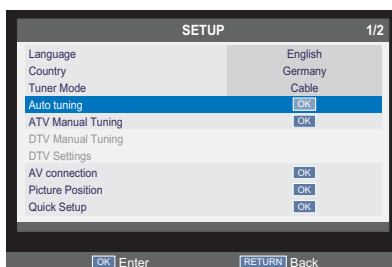
All the current channels and settings, for example, the locked channels, will be lost.

In the **SETUP** menu, press ▲ or ▼ to select **Tuner Mode** and press **OK**.

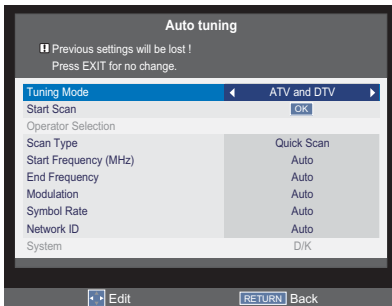
Press ◀ or ▶ to select **YES** or **NO**.



- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the submenu.
- 2 Press ▲ or ▼ to select **Auto tuning**, and press **OK** to enter the submenu.



- 3 Press ▲ or ▼ to select **Tuning Mode** and press ◀ or ▶ to select **ATV**, **DTV** or **ATV and DTV**.



- 4 Press ▲ or ▼ to select **Operator Selection**, and press ◀ or ▶ to select **Others**, **Ziggo** or **UPC**.

**NOTE:** **Operator Selection** can only be adjusted when **Country** is **Netherlands**.

- 5 Press ▲ or ▼ to select **Scan Type**, and press ◀ or ▶ to select **Full Scan** or **Quick Scan**.

**NOTE:** Channels with a weak signal may be missed by **Quick Scan**.

- 6 Press ▲ or ▼ to select **Operator Selection**, **Scan Type**, **Start Frequency (MHz)**, **End Frequency**, **Modulation**, **Symbol Rate**, **Network ID** or **System**, and use number key pad on the remote to define the information or select **Auto** for tuning.

Press ▲ or ▼ to select **Start Scan** and press **OK** to start tuning.

**NOTE:**

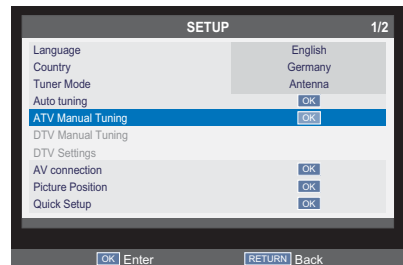
- The information should be given by your cable provider.
- **Network ID** is only available for **Quick Scan**.

## Manual Tuning

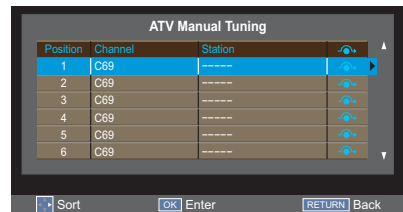
There are two TV modes: **ATV** and **DTV** that can be tuned-in manually using **Manual Tuning**.

### ATV mode - Antenna/Cable

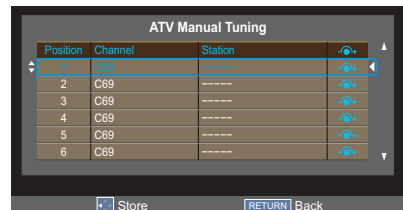
- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the submenu.
- 2 Press ▲ or ▼ to select **ATV Manual Tuning** and press **OK** to enter the submenu.



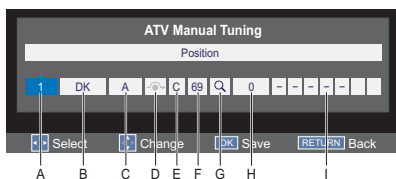
- 3 Press ▲ or ▼ to select the programme position you want to arrange and then press ▶.



- 4 Press ▲ or ▼ to move through the list to your preferred position. As you do so the other stations will move to make room. Press ◀ to store programme position.



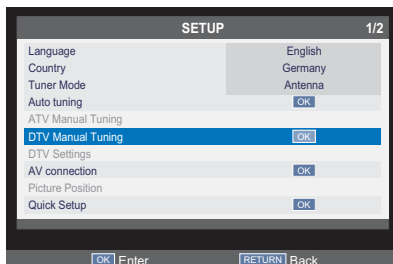
- 5** Press **OK** to display the breakdown menu. Press **◀** or **▶** to select an item, then press **▲** or **▼** to select the item as shown below.



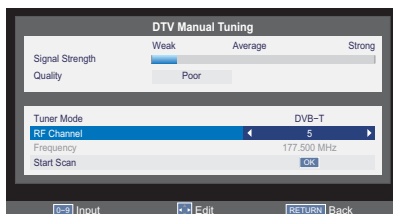
- A Position:**  
The number to be pressed on the remote control.
- B System:**  
Specific to certain areas.
- C Colour system:**  
Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.
- D Skip:**  
🔍 means nothing has been stored or the facility to skip the channel is **On**.
- E Signal Class:**  
The channel classification.
- F Channel:**  
The channel number on which a station is being broadcast.
- G Searching:**  
Search up and down for a signal.
- H Manual fine tuning:**  
Turn on to execute fine tune function.  
Turn off to execute manual fine tune function.
- I Station:**  
Station identification. Use the **▲** or **▼** and **◀** or **▶** buttons to enter up to seven characters.
- 6** Press **OK** to save.

## DTV mode - Antenna

- 1** Press **MENU**. Press **◀** or **▶** to select **SETUP** and press **OK** to enter the submenu.
- 2** Press **▲** or **▼** to select **DTV Manual Tuning** and press **OK** to enter the submenu.



- 3** Press **▲** or **▼** to select **RF Channel** and press **◀** or **▶** to select or use number key pad on the remote to enter a channel.

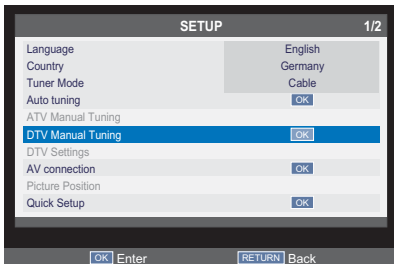


- 4** Press **▲** or **▼** to select **Start Scan** and press **OK** to start tuning.

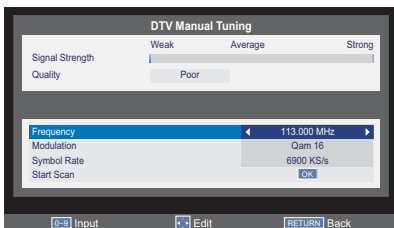


## DTV mode - Cable

- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the sub-menu.
- 2 Press ▲ or ▼ to select **DTV Manual Tuning** and press **OK** to enter the sub-menu.



- 3 Press ▲ or ▼ to select **Frequency**, **Modulation** or **Symbol Rate**, and use number key pad on the remote to define the information or select **Auto** for tuning.

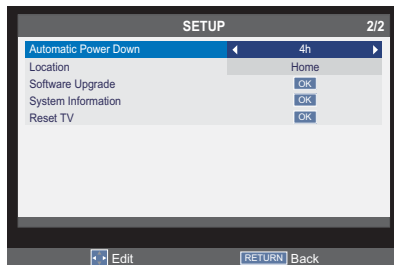


Press ▲ or ▼ to select **Start Scan** and press **OK** to start tuning.

## Automatic Power Down

The TV will automatically turn itself off (standby) within 4 hours, if you do not touch the control buttons on the remote control or on the TV control panel. It will also automatically turn off if no input signal is detected after approximately 15 minutes.

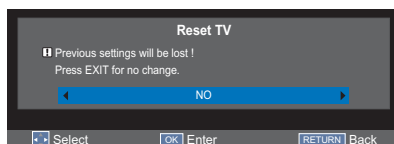
- 1 In the **SETUP** menu, press ▲ or ▼ to select **Automatic Power Down**.
- 2 Press ◀ or ▶ to select **Off, 4h, 6h or 8h**.



## Reset TV

Selecting **Reset TV** will reset all TV settings to their original factory values.

- 1 In the **SETUP** menu, press ▲ or ▼ to select **Reset TV** and press **OK**.
- 2 Press ◀ or ▶ to select **YES** to confirm or select **NO** to exit and press **OK**.



# DTV Settings

## Channels

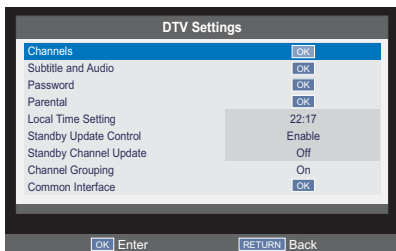
The channel order may be changed to suit your personal preference.

**NOTE:** This function is only available in DTV mode.

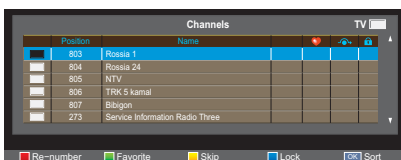
- 1 Press **MENU**. Press **◀** or **▶** to select **SETUP** and press **OK** to enter the submenu.



- 2 Press **▲** or **▼** to select **DTV Settings** and press **OK** to enter the submenu.
- 3 Press **▲** or **▼** to select **Channels** and press **OK**.



- 4 Press **▲** or **▼** to select **Channels**.



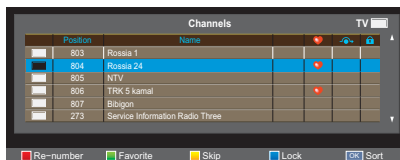
## Re-number

- 5 Press the **■** button on the remote to renumber the highlighted channel.
- 6 Edit the channel number using the number keys on the remote and press **OK**.

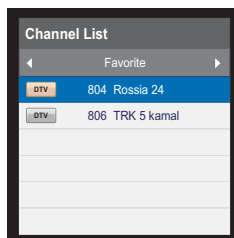


## Favorite

- 7 Press the **♥** button on the remote. A **♥** icon appears.

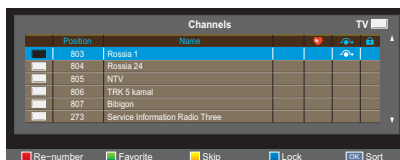


Press **OK** to show the **Channel List** and press **◀** or **▶** to **Favorite**. The desired channel is displayed on the list.



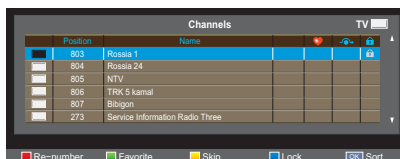
## Skip

- 8 Press the **⏭** button on the remote. A **⏭** icon appears.



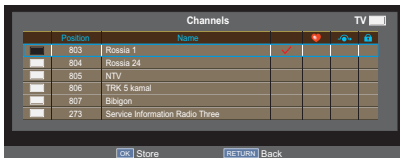
## Lock

- 9 Press the **🔒** button on the remote. A **🔒** icon appears.

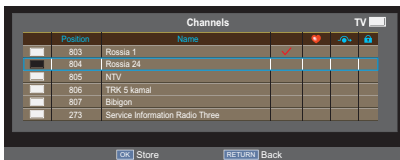


## Sort

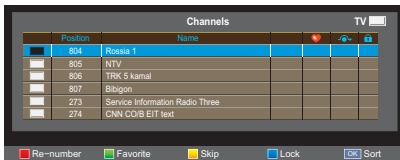
- 10** Press ▲ or ▼ to select the desired channel and then press **OK**. A tick icon appears.



Press ▲ or ▼ to select the channel you wish to swap with the one selected in Step 8 and then press **OK**.



The name of the two channels are swapped.



## Subtitle and Audio

You can choose the **Subtitle Type** or **Audio Type** from **Normal** or **Hearing Impaired**. If the **Hearing Impaired** is selected, it provides subtitle services to deaf and hard of hearing viewers with additional descriptions.

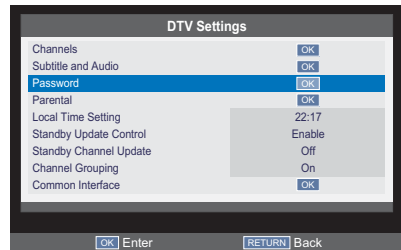
**Subtitle Language** or **Audio Language** allow a programme or film to be viewed with a choice of soundtrack language, provided they are currently being broadcast.

- 1 In the **DTV Settings** menu, press ▲ or ▼ to select **Subtitle And Audio**, and press **OK** to enter the submenu.
- 2 Press ▲ or ▼ to select **Subtitle Display** and press ◀ or ▶ to select **On** or **Off**.
- 3 Press ▲ or ▼ to select **Subtitle Type** or **Audio Type** and press ◀ or ▶ to select **Normal** or **Hearing Impaired**.
- 4 Press ▲ or ▼ to select **Digital Subtitle Language**, **Digital Subtitle Language 2nd**, **Audio Language** or **Audio Language 2nd** and press ◀ or ▶ to select your preferred language.

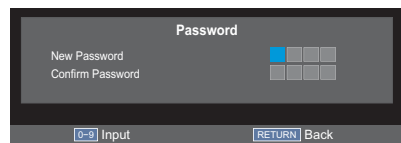
## Password

Change the 4-digit parental control password. The factory default password is "0000".

- 1 In the **DTV Settings** menu, press ▲ or ▼ to select **Password**, and press **OK** to enter the submenu.



- 2 Enter a new 4-digit password, and re-enter the new password again to confirm.



**NOTE:** "0000" cannot be used.

## Parental

This function blocks channels or programmes that you do not want to or that you do not want your children to watch.

A password is required to access this function. The factory default password is "0000".

**NOTE:** When **Parental Control** is activated, you will need to enter the 4-digit password before you enter the **DTV Settings** submenu under the **SETUP** menu. After auto tuning, all the channel blocks will be cleared.

- 1 In the **DTV Settings** menu, press ▲ or ▼ to select **Parental**, and press **OK** to enter the submenu.
- 2 Enter the 4-digit password.
- 3 Press ◀ or ▶ to set the age rating from age **4-18** or select **None** to turn this function off.

**NOTE:** This function is available for programmes with Age Rating information.

## Standby Update Control

- 1 In the **DTV Settings** menu, press **▲** or **▼** to select **Standby Update Control**.
- 2 Press **◀** or **▶** to select **Enable** or **Disable**.

## Standby Channel Update

If the **Standby Channel Update** is set to **On**, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are saved.

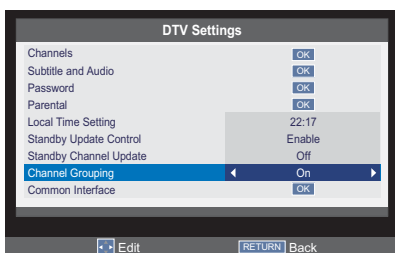
- 1 In the **DTV Settings** menu, press **▲** or **▼** to select **Standby Channel Update**.
- 2 Press **◀** or **▶** to select **On** or **Off**.

**NOTE:** **Standby Channel Update** is only available when **Standby Update Control** is **Enable**.

## Channel Grouping

There are Video, Radio and Text services combined in a channel list for DTV services, The function provides the selection of channel change with one service group or among all services by pressing **P ▲** and **P ▼**.

- 1 In the **DTV Settings** menu, press **▲** or **▼** to select **Channel Grouping**.
- 2 Press **◀** or **▶** to select **On** or **Off**.



- 3 When **Channel Grouping** is **On**, the channel change by **P ▲** and **P ▼** will be within a single service group, press **ATV/DTV** on the remote control can be still used for change services among ATV, DTV Video, DTV Radio and DTV Text.

## Common Interface

The Common Interface Slot, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For information, see a service provider.

- 1 Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on the screen to confirm that the CAM has been inserted.
- 2 In the **DTV Settings** menu, press **▲** or **▼** to select **Common Interface**, and press **OK** to enter the submenu.
- 3 Details of the CAM should now be available.

**NOTE:** The software updating of CI Plus CAM may be automatically executed. At this time, any Recording/Reminder programme timer will be cancelled.

# Digital On-Screen Information and Programme Guide

When viewing in digital mode, the on-screen information and programme guide provide access to programme details for all available channels.

## Information

- 1 Press **+**, and the information screen will appear giving details of the channel and programme currently being viewed.



- 2 Press **▲** or **▼** to choose from **Now** or **Next** information guide.

## On-Screen Information Icons

Icons will appear on the Information screen giving details about the programmes being broadcast. Details of these icons are listed below:

	Icon	Description
Service info		Service type (TV, Radio, TEXT)
		Skip
Audio info		Mono
		Stereo
		Dual mono
		Multichannel
		Dolby Digital
		Dolby Digital+
Audio/Subtitle info		Hearing Impaired
3D info	<b>2D</b> → <b>3D</b>	2D to 3D mode
	<b>3D</b>	3D mode
	<b>3D</b> → <b>2D</b>	3D to 2D mode

	Icon	Description
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
		Multi-audio track
	AD	Audio Description
	4 - 18	Parental rating
		Encrypted

## Guide

- 1 Select the on-screen guide by pressing **GUIDE**. The guide screen will appear highlighting details of the channel and programme currently being viewed. This may take a few moments to appear.
- 2 Press **◀** or **▶** for information on other programmes scheduled for the channel selected.
- 3 For details of other programmes currently available, press **▲** and **▼** to scroll up and down the channel list.

**NOTE:** In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.

# General Controls

The General Functions allow you to select channels and information, adjust sound features, personalise the picture style and select any connected external equipment.

## Selecting Channels

To select a channel use the numbered buttons on the remote control.

Channels can also be selected using P  $\wedge$  and P  $\vee$ .

## Stereo and Bilingual Transmissions

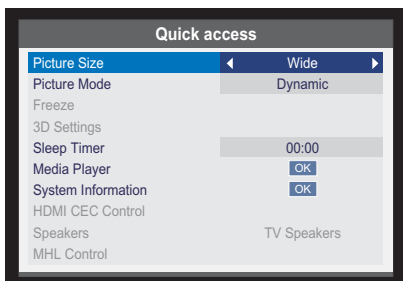
If stereo or dual language broadcasts are transmitted the word Stereo or Dual will appear on the screen each time channels are changed, disappearing after a few seconds. If the broadcast is not in stereo the word Mono will appear.

**Stereo:** Press  $\odot$  I/II to select **Stereo** or **Mono**.

**Bilingual:** If a bilingual programme is offered, the word Dual will display on screen. To change between languages, press  $\odot$  I/II to switch between **Dual 1** and **Dual 2**.

## Quick Access Menu

Quick access helps you access some options quickly such as **Picture Size**, **Picture Mode**, **Freeze**, **3D Settings**, **Sleep Timer**, **Media Player**, **System Information**, **HDMI CEC Control**, **Speakers** and **MHL Control**. Press the **QUICK** button to display the **Quick access** menu and use  $\blacktriangle$  or  $\blacktriangledown$  to select the option you would like to change.



**NOTE:** Quick access items are different depending on the current mode.

## Subtitles

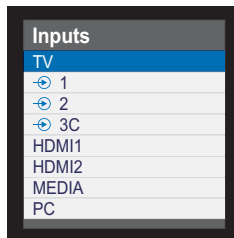
If Subtitles are available for your current programme, pressing the **SUBTITLE** button will toggle Subtitles on or off.

## Input Selection

Use the **Input Selection** feature if the television does not switch over automatically when using an external device.

Pressing  $\ominus$ , a list will appear on-screen showing all external equipment.

Use  $\blacktriangle$  or  $\blacktriangledown$  to highlight and  $\odot$  to select.



HDMI® displays equipment connected to Input HDMI on the back of the television. It is designed for best performance with 1080i/1080p high definition signals.

# Sound Controls

## Volume Controls and Mute Sound

### Volume

Press or to adjust the volume.

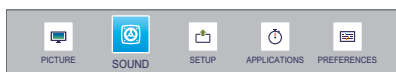
### Sound Mute

Press on the remote once to turn the sound off and again to cancel.

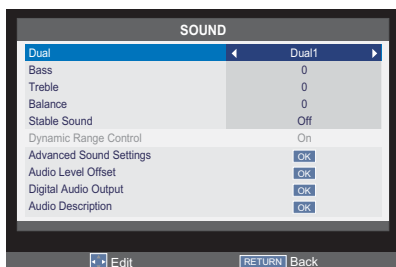
## Dual

If a programme or film is being broadcast with a soundtrack in more than one language, the **DUAL** feature allows selection between them.

- 1 Press **MENU**. Press or to select **SOUND** and press to enter the submenu.



- 2 Press or to select **Dual**, and press or to choose between **Dual1** or **Dual2**.



## Bass, Treble and Balance

The sound controls are accessible in digital and analogue modes.

- 1 Press **MENU**. Press or to select **SOUND** and press to enter the submenu.
- 2 Press or to select **Bass**, **Treble** or **Balance** and press or to change the setting.

## Stable Sound

The **Stable Sound** feature limits high volume levels in order to prevent the extreme changes in volume that can occur when channels are changed or a programme switches to a commercial.

- 1 Press **MENU**. Press or to select **SOUND** and press to enter the submenu.
- 2 Press or to select **Stable Sound**, and press or to select **On** or **Off**.

## Dynamic Range Control

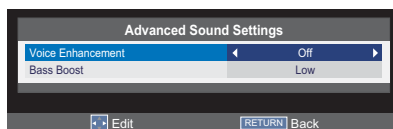
This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).

- 1 Press **MENU**. Press or to select **SOUND** and press to enter the submenu.
- 2 Press or to select **Dynamic Range Control**, and press or to select **On** or **Off**.

## Voice Enhancement

**Voice Enhancement** emphasises the frequency range of the speaker's voice, making it easier to catch what they are saying.

- 1 Press **MENU**. Press or to select **SOUND** and press to enter the submenu.
- 2 Press or to select **Advanced Sound Settings** and press to enter the submenu.
- 3 Press or to select **Voice Enhancement**, and press or to select **On** or **Off**.



## Bass Boost

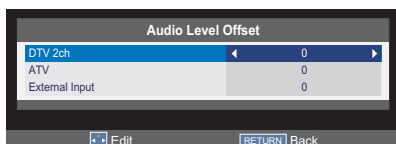
**Bass Boost** enhances depth of the sound.

- 1 Press **MENU**. Press ◀ or ▶ to select **SOUND** and press **OK** to enter the submenu.
- 2 Press ▲ or ▼ to select **Advanced Sound Settings** and press **OK** to enter the submenu.
- 3 Press ▲ or ▼ to select **Bass Boost**, and press ◀ or ▶ to change the setting.

## Audio Level Offset

Sometimes there can be large changes in volume when switching from a DTV 5.1ch to a DTV 2ch, an ATV channel, or an external input. Using the **Audio Level Offset** feature reduces these volume differences.

- 1 Press **MENU**. Press ◀ or ▶ to select **SOUND** and press **OK** to enter the submenu.
- 2 Press ▲ or ▼ to select **Audio Level Offset** and press **OK** to enter the submenu.
- 3 Press ▲ or ▼ to select an option, and press ◀ or ▶ to adjust the volume level.

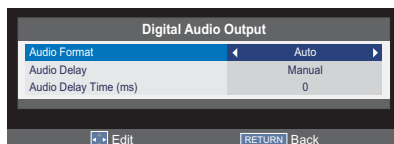


### NOTE:

- The available item changes depending on the current input source. For example, while watching a DTV 2ch programme, only **DTV 2ch** is available and the other two items are grayed out in the menu. This allows you to easily adjust according to each condition.
- When watching a DTV 5.1ch programme, this feature is not available.

## Digital Audio Output

- 1 Press **MENU**. Press ◀ or ▶ to select **SOUND** and press **OK** to enter the submenu.
- 2 Press ▲ or ▼ to select **Digital Audio Output** and press **OK** to enter the submenu.
- 3 Press ▲ or ▼ to select **Audio Format**, and press ◀ or ▶ to select **PCM** or **Auto**.



- 4 Press ▲ or ▼ to select **Audio Delay**, and press ◀ or ▶ to select **Auto** or **Manual**.
- 5 Press ▲ or ▼ to select **Audio Delay Time (ms)**, and press ◀ or ▶ to change the setting.

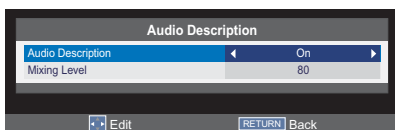
**NOTE:** **Audio Delay Time (ms)** is only available when **Audio Delay** is **Manual**.



## Audio Description

**Audio Description** is an additional narration describing on-screen action, body language, expressions and movements for people with visual disabilities while watching the TV. This function enables you to choose the type of narrations.

- 1 Press **MENU**. Press ◀ or ▶ to select **SOUND** and press (OK) to enter the submenu.
- 2 Press ▲ or ▼ to select **Audio Description** and press (OK) to enter the submenu.
- 3 Press ▲ or ▼ to select **Audio Description**, and press ◀ or ▶ to select **On** or **Off**.



- 4 Press ▲ or ▼ to select **Mixing Level**, and press ◀ or ▶ to change the setting.

**NOTE:** **Mixing Level** can only be adjusted when **Audio Description** is **On**.

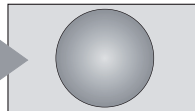
**NOTE:** Press the **AD** button on the remote control to switch the **Audio Description On** or **Off**.

## Widescreen Viewing

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats.

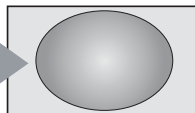
### **Wide (Expect PC)**

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



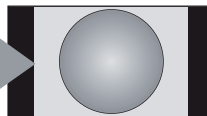
### **Wide (PC only)**

This setting will show the picture without over scan and side panel when watching a PC signal source via HDMI or PC terminal.



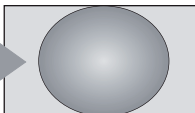
### **4:3**

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



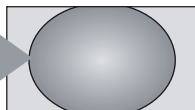
### **Super Live**

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.



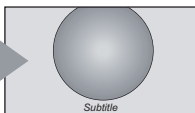
### **Cinema**

When watching letterbox format films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.



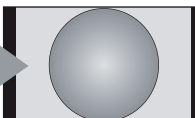
### **Subtitle**

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



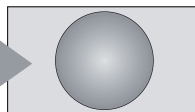
### **14:9**

Use this setting when watching a 14:9 broadcast.



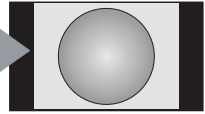
### **Native**

The setting will show the picture without over scan, i.e. WYSIWYG. This option is available when watching video signal source via HDMI or watching DTV (HD signal).

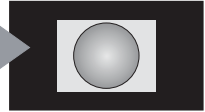


**Normal**

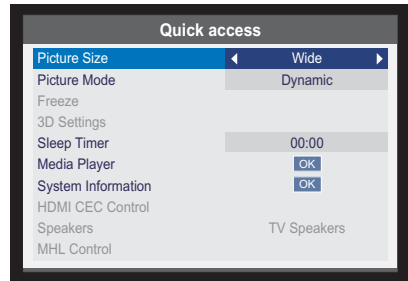
This setting will show the picture without over scan, i.e. WYSIWYG.  
This option is only available when watching a PC signal source via HDMI or PC terminal.

**Dot by Dot**

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



Press **QUICK** to display the **Quick access** menu. Use **▲** or **▼** to select the **Picture Size**, and press **◀** or **▶** to select the option.



You can choose the picture size from Wide, 4:3, Super Live, Cinema, Subtitle, 14:9, Native, Normal or Dot by Dot.

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

### Available Picture Size and Position Control

		Wide	4:3	Super Live	Cinema	Subtitle	14:9	Native	Normal	Dot by Dot
ATV		o	o	o	o	o	o	x	x	x
DTV	SD	o	o	o	o	o	o	x	x	x
	HD	o	o	o	o	x	o	o	x	x
Scart		o	o	o	o	o	o	x	x	x
CVBS		o	o	o	o	o	o	x	x	x
YPbPr	SD	o	o	o	o	o	o	x	x	x
	HD	o	o	o	o	x	x	x	x	x
HDMI	SD	o	o	o	o	o	o	o	x	x
	HD	o	o	o	o	x	x	o	x	x
D-SUB		o	x	x	x	x	x	x	o	o
DVI		o	x	x	x	x	x	x	o	o

# Picture Controls

Most of the picture controls and functions are available in both **digital** and **analogue** modes.

**NOTE:** Features not available will be greyed out.

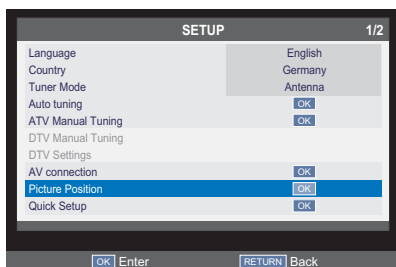
## Picture Position

The Picture Position may now be adjusted to suit personal preference.

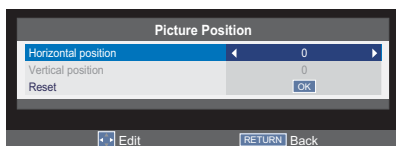
- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the sub-menu.



- 2 Press ▲ or ▼ to select **Picture Position** and press **OK** to enter the sub-menu.



- 3 Press ▲ or ▼ to select an option you want to adjust, and press ◀ or ▶ to adjust the settings as required.



## Picture Mode

You can adjust the picture appearance by selecting the preset value in picture mode based on the programme category.

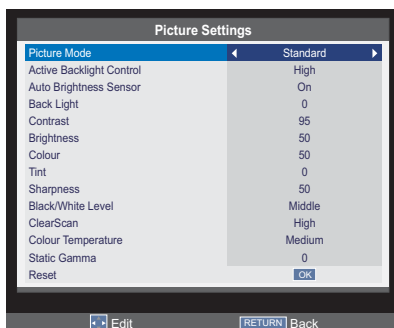
- 1 Press **MENU**. Press ◀ or ▶ to select **PICTURE** and press **OK** to enter the sub-menu.



- 2 Press ▲ or ▼ to select **Picture Settings** and press **OK** to enter the sub-menu.

- 3 Press ▲ or ▼ to select **Picture Mode** and press ◀ or ▶ to select **Dynamic**, **Standard**, **Mild**, **Movie**, **Game** or **User**.

**NOTE:** **Game** is not available for the TV input mode.



## Picture Preferences

You can customise current picture mode settings while selecting **User**.

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **Back Light**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness**.
- 2 Press ◀ or ▶ to suit your preference.

## Black/White Level

This function increases the strength of dark areas of the picture, which improves picture definition.

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **Black/White Level**.
- 2 Press ◀ or ▶ to adjust the level from **Off**, **Low**, **Middle** or **High**. The effect depends on the broadcast and is most noticeable on dark colours.

## ClearScan

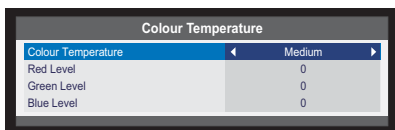
This feature helps to eliminate video shaking.

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **ClearScan**.
- 2 Press ◀ or ▶ to select **Off**, **Standard**, **Middle** or **High**.

## Colour Temperature

Colour Temperature increases the 'warmth' or "coolness" of a picture by increasing the red or blue tint.

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **Colour Temperature** and press ▶.
- 2 Press ▲ or ▼ to select **Colour Temperature** and press ◀ or ▶ to select **Medium**, **Warm** or **Cool** to suit your preference.



- 3 Press ▲ or ▼ to select **Red Level**, **Blue Level** or **Green Level** and press ◀ or ▶ to adjust the settings as required.

## Static Gamma

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

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **Static Gamma**.
- 2 Press ◀ or ▶ to select the number of **Static Gamma** (-5~+5).

## Reset

This feature resets all picture settings to the factory settings.

In the **Picture Settings** menu, press ▲ or ▼ to select **Reset** and press ⊗ to reset settings.

**NOTE:** If any picture settings have not been changed, **Reset** is not available.

## Active Backlight Control

When the **Active Backlight Control** feature is activated, **High** mode will control the backlighting levels depending on various scenes such as picture motion, bright scene or dark scene. **Low** mode will control the backlighting level on dark scene.

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **Active Backlight Control**.
- 2 Press ◀ or ▶ to select **Off**, **Low** or **High**.

## Auto Brightness Sensor

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

- 1 In the **Picture Settings** menu, press ▲ or ▼ to select **Auto Brightness Sensor**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

## 3D Colour Management

When **3D Colour Management** is set to **On**, it allows the **Base Colour Adjustment** feature to become available.

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

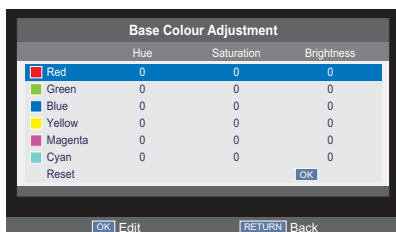
- 1 In the **PICTURE** menu, press **▲** or **▼** to select **3D Colour Management**.
- 2 Press **◀** or **▶** to select **On** or **Off**.

**NOTE:** When a DVD movie with subtitle is playing back, this mode may not work correctly.

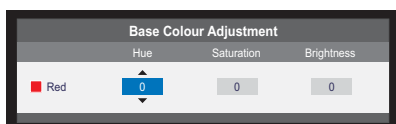
## Base Colour Adjustment

The **Base Colour Adjustment** feature allows the adjustment of individual colours to suit personal preference. This can be useful when using an external source. It only can be adjusted when **3D Colour Management** is set to **On**.

- 1 In the **PICTURE** menu, press **▲** or **▼** to select **Base Colour Adjustment** and press **OK** to enter the submenu.
- 2 Press **▲** or **▼** to select an item you want to adjust and press **OK**.



- 3 Press **◀** or **▶** to select **Hue**, **Saturation** or **Brightness**.



- 4 Press **▲** or **▼** to adjust the settings as required.

**NOTE:** In the PC Input mode, this function is not available.

## Digital Noise Reduction

**DNR (Digital Noise Reduction)** enables you to "soften" the screen representation of a weak signal to reduce the noise effect.

- 1 In the **PICTURE** menu, press **▲** or **▼** to select **DNR**.
- 2 Press **◀** or **▶** to select **Off**, **Low**, **Middle** or **High**.

**NOTE:** This function is not available for HDMI input.

## MPEG NR – Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated.

Using the **MPEG NR** feature reduces this effect by smoothing out the edges.





- 1 In the **PICTURE** menu, press **▲** or **▼** to select **MPEG NR**.
- 2 Press **◀** or **▶** to select **Off**, **Low**, **Middle** or **High**.

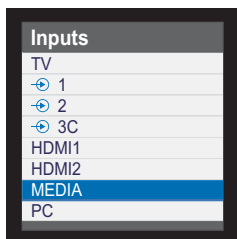
# Enjoy Photos through USB Port




The Photo Viewer allows you to playback image files from a USB storage device.

Image	Photo	Resolution
JPEG	Base-line	15360x8704 (1920x8 x 1088x8)
	Progressive	1024x768
PNG	non-interface	9600x6400
	interface	1200x800
BMP		9600x6400








## View Photo Files

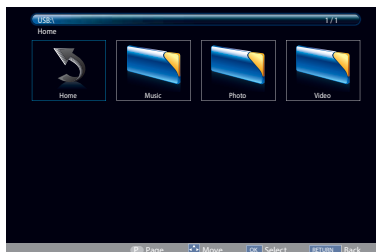
- 1 Insert a USB storage device and press  on the remote.  
Use  or  to select **MEDIA** and press .








- 2 Press  or  to select **Photo** and press  to enter the submenu.

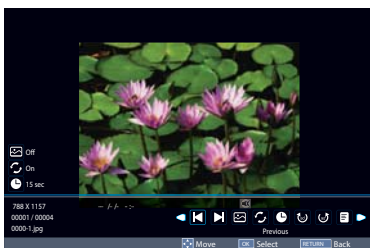


- 3 Press , ,  or  to select the folder you wish to view and press  to enter.  
Press  or  to page up or down.



- 4 Press , ,  or  to select the desired photo and press  to view.

- 5** Press **MENU** to change the settings when viewing a photo.



Press ◀ or ▶ to:

- ◀: Go to the previous photo
- ▶: Go to the next photo
- [Envelope icon]: Select slide show mode
- [Repeat icon]: Select repeat mode
- [Clock icon]: Select the desired interval time
- [Clockwise rotation icon]: Clockwise rotation 90°
- [Counterclockwise rotation icon]: Counterclockwise rotation 90°
- [List icon]: Show play list
- [Music icon]: Set the background music
- [Info icon]: Photo information

and press **OK** to confirm the setting.

## Using Slide Show

This view allows you to watch a slide show of the photos. In this view mode, the only content that locates on the same directory shall be played.

- 1** Press **MENU** to change the settings when viewing a photo.
- 2** Press ◀ or ▶ to select [Envelope icon] and press **OK** to turn **On** or **Off**.

**NOTE:** If **Repeat** is **On**, slide show starts photo viewing from the first photo in the folder after reaching the final photo.

## Repeat Settings for Slideshow

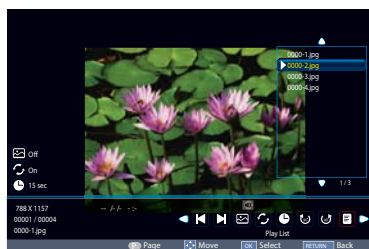
- 1** Press **MENU** to change the settings when viewing a photo.
- 2** Press ◀ or ▶ to select [Repeat icon] and press **OK** to turn **On** or **Off**.

## Set Interval Time

- 1** Press **MENU** to change the settings when viewing a photo.
- 2** Press ◀ or ▶ to select [Clock icon] and press **OK** to select the desired interval time (3/5/10/15/30/60/90 Sec).

## Using the Play List

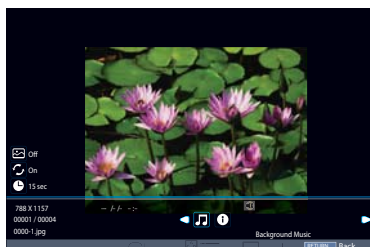
- 1** Press **MENU** to change the settings when viewing a photo.
- 2** Press ◀ or ▶ to select [List icon] and press **OK**.
- 3** Press ▲ or ▼ to select a photo and press **OK** to show the photo.  
Press **RETURN** on the remote to collapse the list.





## Background Music

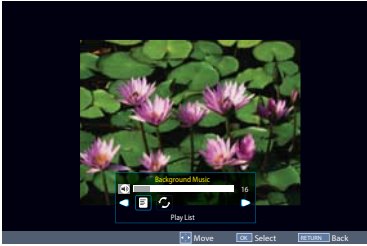
Set the background music when viewing photo.


- 1** Press **MENU** to change the settings when viewing a photo.
- 2** Press ◀ or ▶ to select [Music icon] and press **OK**.



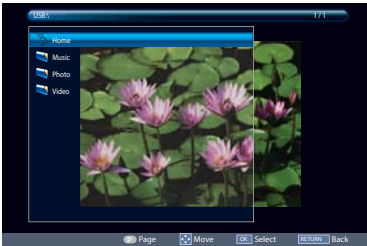




- 3 Press ◀ or ▶ to select  and press .

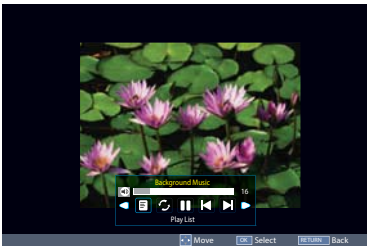


Press ▲ or ▼ to select music and press  to play music.

Press **RETURN** on the remote to collapse the list.





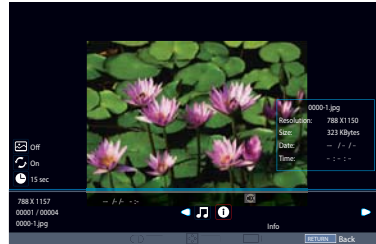
- 4 Press ◀ or ▶ to select  and press  to select **One** or **FOLDER**.




## Photo Info

**Info** displays the file status information (content number, photo title, shooting date and time, resolution etc.).

- 1 Press **MENU** to change the settings when viewing a photo.
- 2 Press ◀ or ▶ to select  and press .







- 3 The information will be removed by timeout (about 15 sec) or press  to exit.

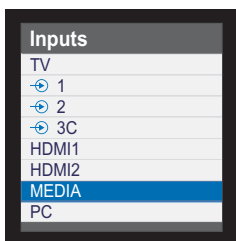
# Enjoy Music through USB Port




The MP3 Player allows you to playback music files from a USB storage device.

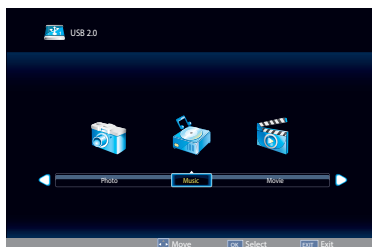
Audio Codec	File Extension	Bit Rate
MPEG1 Layer2/3	MP3	Bit Rate: 8Kbps ~ 320Kbps Sampling rate: 16KHz ~ 48KHz
AAC, HEAAC	M4A/AAC	Bit Rate: Free Format Sampling rate: 8KHz ~ 48KHz
LPCM	WAV	Bit Rate : 64Kbps ~ 1.5Mbps Sampling rate : 8KHz ~ 48KHz






## Play Music Files

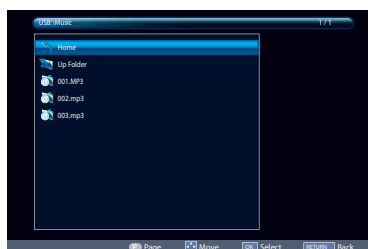
- 1 Insert a USB storage device and press  on the remote.  
Use  or  to select **MEDIA** and press .



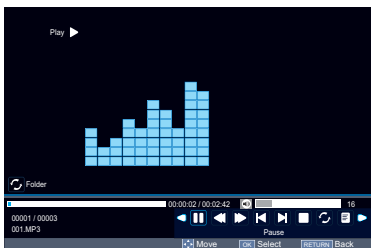
- 2 Press  or  to select **Music** and press  to enter the submenu.



- 3 Press  or  to select the folder you wish to play and press  to enter.  
Press  or  to page up or down.



- 4 Press ▲ or ▼ to select the desired music and press **OK** to play.



When listening music, press ◀ or ▶ to:

- ▶/⏮: Play or pause the selected music
- ⏮: Rewind the selected music
- ⏭: Fast forward the selected music
- ⏪: Go to the previous music
- ⏩: Go to the next music
- ⏹: Stop play
- 🔁: Select the desired repeat interval:
  - Repeat Off
  - Repeat One: Repeat the selected music once
  - Repeat Folder: Repeat all music files in the selected folder
- 📄: Show play list
- ⓘ: Music information

and press **OK** to confirm the setting.

## Repeat Settings

- 1 Press ◀ or ▶ to select 🔁.
- 2 Press **OK** to select **Off**, **One** or **Folder**.

## Using the Play List

- 1 Press ◀ or ▶ to select 📄 and press **OK**.
- 2 Press ▲ or ▼ to select music and press **OK** to play music.

Press **EXIT** on the remote to collapse the list.



## Music Info

**Info** display file status information (content number, music title, Bit Rate, Artist, Sampling, Year, and size).

- 1 Press ◀ or ▶ to select ⓘ and press **OK**.



- 2 The information will be removed by time-out (about 15 sec) or press **OK** to exit.

# Enjoy Videos through USB Port

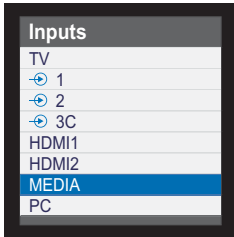
The Video Viewer allows you to playback video files from a USB storage device.

**NOTE:** USB 2.0 or above is recommended for best media performance.

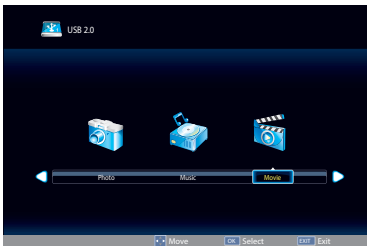
File Extension	Container	Video Codec	SPEC	Bit Rate (Mbit/sec)	Profile	Remark
dat, mpg, mpeg	MPEG	MPEG1 MPEG2	1080P@ 30fps	40	MPEG2: Main Profile@ High Level	
ts, trp, tp	MPEG2-TS H.264-TS	H.264 MPEG2	H.264: 1080P@50fps Others: 1080P@30fps	40	H.264: Main Profile and High Profile@Level 4.1 MPEG2: Main Profile@ High Level	
vob	MPEG2-PS	MPEG2	1080P@ 30fps	40	MPEG2: Main Profile@ High Level	
mp4, m4v	MP4	H.264 MPEG4	H.264: 1080P@50fps Others: 1080P@30fps	40	H.264: Main Profile and High Profile@Level 4.1 MPEG4: Simple Profile and Advanced Simple Profile@Level 5	MP4: GMC is not supported
mkv	MKV	H.264 MPEG1 MPEG2 MPEG4	H.264: 1080P@50fps Others: 1080P@30fps	40	H.264: Main Profile and High Profile@Level 4.1 MPEG2: Main Profile@ High Level MPEG4: Simple Profile and Advanced Simple Profile@Level 5	
divx, div	AVI (1.0, 2.0) DMF0, 1, 2	DivX 3.11 DivX 4.12 DivX 5.x DivX 6	1080P@ 30fps	40	MPEG4: Simple Profile and Advanced Simple Profile@Level 5	* Some files may not be played.
avi	AVI (1.0, 2.0) DMF0, 1, 2	H.264 MPEG1 MPEG2 MPEG4 DivX 3.11 DivX 4.12 DivX 5.x DivX 6	H.264: 1080P@50fps Others: 1080P@30fps	40	H.264: Main Profile and High Profile@Level 4.1 MPEG2: Main Profile@ High Profile MPEG4: Simple Profile and Advanced Simple Profile@Level 5	
	AVI (1.0, 2.0)	MJPEG (Motion JPEG)	640x480@ 30fps	10		
flv	flash formats	H.264 Sorenson H.263	H.264: 1080P@50fps Others: 1080P@30fps	40	H.264: Main Profile and High Profile@Level 4.1	

## Play Video Files

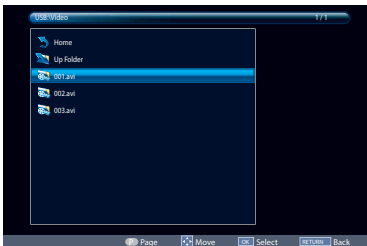
- 1 Insert a USB storage device and press on the remote.  
Use or to select **MEDIA** and press .



- 2 Press or to select **Movie** and press to enter the submenu.

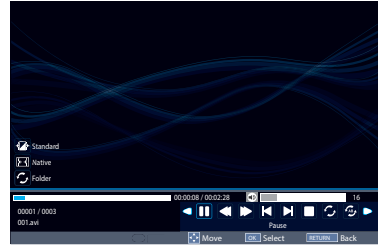


- 3 Press or to select the folder you wish to view and press to enter.  
Press or to page up or down.



- 4 Press or to select the desired video and press to play.

- 5 Press **MENU** to change the settings when viewing a video.




Press or to:


- : Play or pause the selected video
- : Fast back the selected video
- : Fast forward the selected video
- : Go to the previous video
- : Go to the next video
- : Stop play
- : Select the desired repeat interval:
  - Repeat Off
  - Repeat One: Repeat the selected video once
  - Repeat Folder: Repeat all video files in the selected folder
  - : Repeat from A to B
    - Set A: A-Set  
Repeat and Start
    - Set B: B-Set  
Repeat and repeat from A to B
- : Show play list
- : Video information
- : Slow forward the selected video
- : Step forward the selected video
- : Aspect Ratio
- : Picture Mode
- : Allows you to input a search time

and press to confirm the setting.


## Repeat Settings

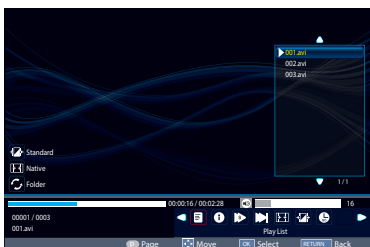
- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK** to select **Off**, **One** or **Folder**.

## Set

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK** to select **Set A**, **Set B** or **None**.


## Using the Play List

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK**.
- 3 Press ▲ or ▼ to select a video and press **OK** to play the video.  
Press **RETURN** on the remote to collapse the list.




## Slow Forward

The feature changes forward speeds.

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK** to select **SF2X**, **SF4X**, **SF8X**, **SF16X** or **Play**.


## Step Forward

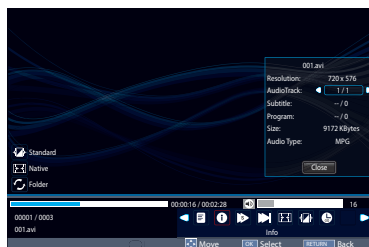
The feature allows you to view a video one frame at a time.

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK** to play step by step.

## Video Info


**Info** display file status information (content number, video title, audio track, subtitle, program, size, etc.).

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK**.




- 3 The information will be removed by time-out (about 15 sec) or press **OK** to exit.

## Aspect Ratio


- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK** to select **Native**, **4:3** or **16:9**.

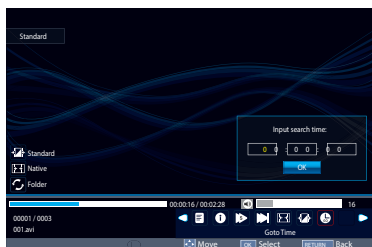
## Picture Mode

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK** to select **Standard**, **Mild**, **Movie** or **Dynamic**.

## Goto Time

The feature allows you to view a selected time during the video.

- 1 Press **MENU** to change the settings when viewing a video.
- 2 Press ◀ or ▶ to select  and press **OK**.
- 3 Use the number key pad on the remote to enter time. Press **OK** to go to the input time.



# HDMI CEC Control

This feature uses CEC (Consumer Electronics Control) technology, and allows the control of Toshiba **HDMI CEC** compatible equipment from the television's remote control.

**NOTE:** Not all Toshiba products currently support **HDMI CEC**.




## Equipment Control

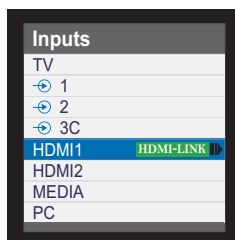
The **HDMI CEC** mode on the television's remote control allows the control of connected **HDMI CEC** equipment being watched.





To control the **HDMI CEC** input source, first select the equipment with **HDMI CEC** input source selection, then switch the mode on the remote control to **HDMI CEC** and press any buttons.

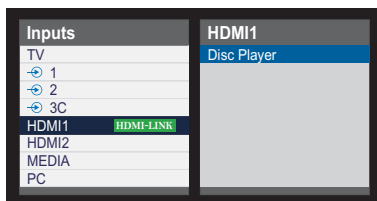
The available functions are dependent on the equipment connected. Not all the remote control keys may be available. Please refer to the operation manual for each piece of equipment connected.

## Select HDMI CEC Device

- 1 Press . A list appears on screen showing modes and all stored external equipment.
- 2 The **HDMI-LINK** icon appears automatically after detected with **HDMI CEC** compatible equipment. Press  or  to highlight the input source shown with the **HDMI-LINK** icon.



- 3 Press , and the device selection menu appears showing all connected **HDMI CEC** equipment.
- 4 Press  or  to highlight the desired **HDMI CEC** equipment, and then press  to select.





# HDMI CEC Menus

By activating the Enable HDMI-LINK feature in the **HDMI CEC Control** menu, individual **HDMI-LINK** features can then be activated.

## One Touch Play

The function of **HDMI CEC** will automatically power on the television that was in standby mode and switch the television's input source to the port connected with the audio/video equipment by powering-on or playing from the audio/video equipment.

**NOTE:** This feature is dependent on the connected equipment and television setting.

## System Standby

This feature automatically switches the connected equipment into standby when the television goes into standby and conversely for the television to switch into standby when connected equipment goes into standby. It is selected in the **HDMI CEC Control** menu.

**NOTE:** This feature is dependent on the connected equipment and television setting.

## System Audio Control

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

Ensure that the connected AV amplifier and **HDMI CEC** equipment are selected in the input source selection and that the **Speaker Preference** is set to **Amplifier** in the **HDMI CEC Control** menu.

**NOTE:** When the AV Amplifier is switched on, its input source changed or the volume adjusted, the sound will be output from the AV Amplifier's speakers even if TV speakers has been selected. Turn the television off then on again to output the sound from the TV's speakers.

The full function may not work and is dependent on the amplifier being used.

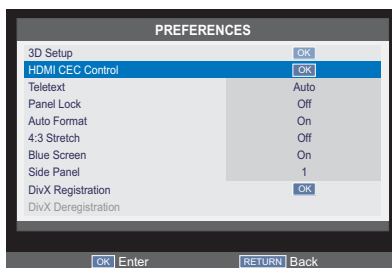
## Enable HDMI-LINK

When the **Enable HDMI-LINK** is set to **On**, it allows the other functions to be enabled.

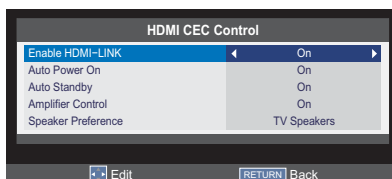
- 1 Press **MENU**. Press **◀** or **▶** to select **PREFERENCES** and press **OK** to enter the submenu.



- 2 Press **▲** or **▼** to select **HDMI CEC Control**, and press **OK** to enter the submenu.



- 3 Press **▲** or **▼** to select **Enable HDMI-LINK**, and press **◀** or **▶** to select **On** or **Off**.



---

## Auto Power On

---

The **Auto Power On** setting allows the television to be automatically switched **On** if user pressed Play key on the **HDMI CEC** device.

- 1 In the **HDMI CEC Control** menu, press ▲ or ▼ to select **Auto Power On**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

---

## Auto Standby

---

When the **Auto Standby** is enabled, switching off the television will automatically switch off all connected **HDMI CEC** equipment.

- 1 In the **HDMI CEC Control** menu, press ▲ or ▼ to select **Auto Standby**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

---

## Amplifier Control

---

When **Amplifier Control** is set to **On**, it allows the **Speaker Preference** feature to become available.

- 1 In the **HDMI CEC Control** menu, press ▲ or ▼ to select **Amplifier Control**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

---

## Speaker Preference

---

This feature allows the audio output preference to be set to the TV speakers or Amplifier speakers. The Amplifier option lets the television's remote control adjust or mute the volume of the audio.

- 1 In the **HDMI CEC Control** menu, press ▲ or ▼ to select **Speaker Preference** when **Amplifier Control** is **On**.
- 2 Press ◀ or ▶ to select **TV Speakers** or **Amplifier**.

**NOTE:** This function is only available when the TV is connected to audio receivers that support CEC function.

## HDMI CEC Playback Device Control

This is a new feature that uses CEC technology and allows you to control **HDMI CEC** compatible devices from the TV remote control via HDMI connection.

When there are two or more **HDMI CEC** devices connected to the television, the device selection menu appears. Highlight the desired device, and then press **OK** to select.

**Remote Control**



**Pass-Through Control Panel**



**NOTE:**

- Press **▲** or **▼** to select **HDMI CEC Control** in the **Quick access** menu, and then press **OK**. The **Pass-Through Control Panel** appears.
- Some functions are only available when the **Pass-Through Control Panel** is displayed on the screen. Please refer to the following procedure.
- Please refer to the **Remote Control** image and the following table for the key definitions of the **Pass-Through Control Panel**.
- **MENU** and **RETURN** functions are unavailable when the **Pass-Through Control Panel** is on.

No	Item	Description
When opening the <b>Pass-Through Control Panel</b> :		
1	<b>GUIDE</b>	Turn off the desired <b>HDMI CEC</b> device.
2	<b>EXIT</b>	Close the <b>Pass-Through Control Panel</b> .
3	<b>▲</b>	Pause.
	<b>▼</b>	Stop.
	<b>◀</b>	Rewind.
	<b>▶</b>	Forward.
	<b>OK</b>	Play.
4	<b>MENU</b>	Skip Reverse.
5	<b>RETURN</b>	Skip Forward.
6	<b>ROOT</b>	Root key.
7	<b>DVD</b>	DVD key.
8	<b>CONTENTS</b>	Contents key.
9	<b>TOP</b>	Top key.
In contents menu:		
3	<b>▲, ▼, ◀, ▶</b>	Navigate contents menu.
	<b>OK</b>	Enter contents menu, etc.

**NOTE:** These functions depend on the devices connected.

# Using MHL TV Function

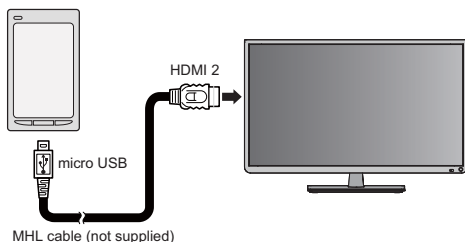
You can use the following functions by connecting between the TV HDMI 2 port and micro USB port of mobile phones etc. with a MHL cable.

- Charge with mobile phone from TV
- Video/Audio output from mobile phone
- Access mobile content through TV remote controller
- Supports transfer of HD video resolution up to 1080p
- MHL functions may not perform properly as some mobile devices may not incorporate the full MHL functionality

**NOTE:** These functions may not be available depending on the connected equipment.

## Connecting an MHL-compatible Device

Connect the device to the HDMI 2 port on the TV using an MHL cable (not supplied).

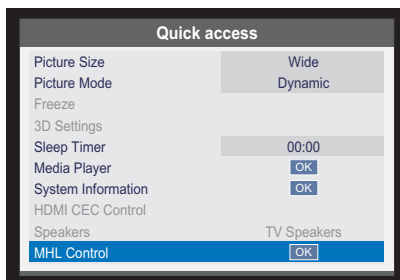


When you connect an MHL-compatible device to the HDMI 2 port on the TV with the MHL cable, charging starts automatically.

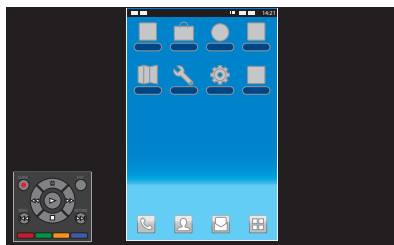
**NOTE:** Do not connect an MHL-compatible device to any port other than the HDMI 2 port.

## MHL Control

- 1 Press **QUICK**. Press **▲** or **▼** to select **MHL Control** and press **OK**.



- 2 The **Pass-Through Control Panel** appears.



**NOTE:** The **Pass-Through Control Panel** is only available when viewing photo/video or listening to music.

## Operating an MHL-compatible Device

MHL is a new mobile audio video interface standard for direct connection with MHL enabled mobile devices to MHL enabled TVs, providing instant access to a wealth of mobile content with ease of control through the TV remote controller.

### Remote Control



### Pass-Through Control Panel



No	Item	Description
Not entry MHL Control (Remote Control)		
2	<b>EXIT</b>	Exit.
3	In contents menu:	
	▲	Up.
	▼	Down.
	◀	Left.
	▶	Right.
	Ⓞ	Select.
5	<b>RETURN</b>	Exit.
Entry MHL Control (Pass-Through Control Panel)		
1	<b>GUIDE</b>	Record.
2	<b>EXIT</b>	Close the <b>Pass-Through Control Panel</b> .
3	When viewing the video or listening to music:	
	▲	Pause.
	▼	Stop.
	◀	Rewind.
	▶	Forward.
	Ⓞ	Play.
4	<b>MENU</b>	Skip Reverse.
5	<b>RETURN</b>	Skip Forward.

# Using 3D Functions

Before using 3D programming, see and follow "Caution and Other Information for 3D" on page 58.

## Viewing 3D programming requires the following:

- Toshiba FPT-AG03 (L53\*5 : 2pcs supplied, L53\*3/L53\*1 : Not supplied)
- Compatible 3D playback device or 3D source
- 3D capable high quality HDMI cable

## Viewing 3D images

Incoming video signals can either be in 2D or 3D format. A 2D signal can be viewed in either 2D or 3D, and 3D can be viewed in either 2D or 3D. If the TV can detect the fact that a signal is 3D, it can change to 3D mode automatically – see "3D Auto Start" on page 55.

Otherwise you can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TB). You may have to choose the correct format if the TV can not detect it automatically – see "Display Mode Select" on page 54.

Moreover, you can change 2D images to 3D images by pressing the 3D button when viewing in 2D.

### NOTE:

- When 3D format signal is not received, display mode is not switched to 3D.
- If appropriate mode and format are not selected, 3D image is not correctly displayed.
- There will be restrictions on the Picture Size settings for 3D Mode and 2D Mode.
- There are individual differences in perception of 3D images.
- When viewing 3D images, wear the 3D Glasses.
- The 2D to 3D conversion function is activated and controlled by you according to your personal preferences.
- The 2D to 3D conversion function is meant for enjoyment of 2D home video, and other 2D content you create, in 3D according to your personal preferences.
- The 2D to 3D conversion function is not intended for use with pre-recorded 2D copyrighted content owned by a third-party unless the copyright owner has given direct or indirect permission, or unless applicable law permits such use.

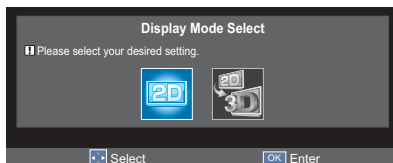
## Display Mode Select

There are three modes for watching TV.

- 3D\*: Displays 3D images.
- 2D: Changes 3D images to 2D.
- 2D to 3D\*: Changes 2D images to 3D.

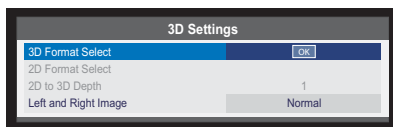
\* This mode does not support all content depending on its input source format.

- 1 Press **3D**. Press ◀ or ▶ to select Display Mode.

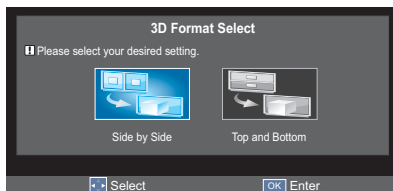


## 3D Format Select

- 1 Press **QUICK**. Press ▲ or ▼ to select **3D Settings** and press **OK**.
- 2 Press ▲ or ▼ to select **3D Format Select** and press **OK**.



- 3 Press ◀ or ▶ to select **Side by Side** or **Top and Bottom**.

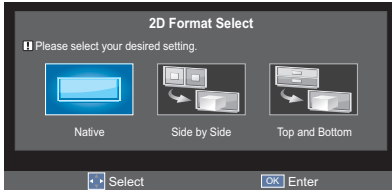


- Side by Side: Images for the left and right eyes are positioned side-by-side.
- Top and Bottom: Images for the left and right eyes are positioned at the top and bottom of the screen.

**NOTE:** 3D Format Select is only available when Display Mode Select is 3D.

## 2D Format Select

- 1 Press **QUICK**. Press **▲** or **▼** to select **3D Settings** and press **OK**.
- 2 Press **▲** or **▼** to select **2D Format Select** and press **OK**.
- 3 Press **◀** or **▶** to select **Native**, **Side by Side** or **Top and Bottom**.



**NOTE:** 2D Format Select is only available when **Display Mode Select** is **2D**.

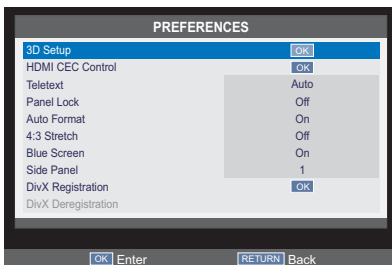
## 3D Auto Start

Controls what the TV does when it detects a 3D signal.

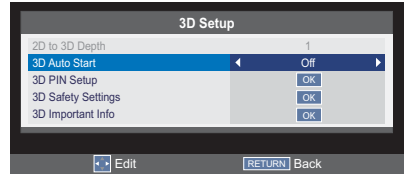
- 1 Press **MENU**. Press **◀** or **▶** to select **PREFERENCES** and press **OK** to enter the submenu.



- 2 Press **▲** or **▼** to select **3D Setup**, and press **OK** to enter the submenu.



- 3 Press **◀** or **▶** to select **Off**, **3D** or **2D**.



- **Off:** Displays a screen that allows you to select 3D or 2D when 3D format signal is received.
- **3D:** Displays as 3D mode automatically when 3D format signal is received.
- **2D:** Displays as 2D mode automatically when 3D format signal is received.

## 2D to 3D Depth

You can adjust the level of 3D.

### From the Menu

- 1 In the **3D Setup** menu, press **▲** or **▼** to select **2D to 3D Depth**.
- 2 Press **◀** or **▶** to adjust the settings as required.

### From the Quick Access Menu

- 1 Press **QUICK**. Press **▲** or **▼** to select **3D Settings** and press **OK**.
- 2 Press **▲** or **▼** to select **2D to 3D Depth**, and press **◀** or **▶** to adjust the settings as required.

### NOTE:

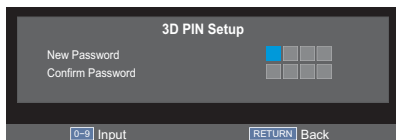
- **2D to 3D Depth** is only available when **Display Mode Select** is **2D to 3D**.
- The higher the number, the stronger the 3D effect.
- Depending on the content, setting the 3D effect to a high level may result in blurring of the image contours and background.

If you experience any abnormal sensation or feel fatigue or nausea when viewing 3D images, stop watching and rest until the symptoms subside. Before viewing again, adjust the 3D effect to a lower number and view at a level at which the symptoms do not occur.

## 3D PIN Setup

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

- 1 In the **3D Setup** menu, press ▲ or ▼ to select **3D PIN Setup**.
- 2 Enter a new 4-digit password, and re-enter the new password again to confirm.



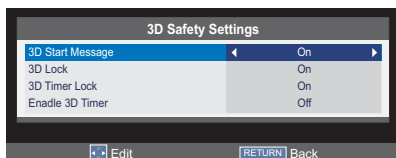
### NOTE:

- "0000" cannot be used.
- If PIN is deleted, **3D Safety Settings** is greyed out, and the settings are reset to the factory default.

## 3D Start Message

When **3D Start Message** is set to **On**, a message is displayed onscreen when a 3D signal is received.

- 1 In the **3D Setup** menu, press ▲ or ▼ to select **3D Safety Settings** and press (OK).
- 2 Enter your 4-digit 3D PIN code.
- 3 Press ▲ or ▼ to select **3D Start Message** and press ◀ or ▶ to select **On** or **Off**.



## 3D Lock

When **3D Lock** is set to **On**, you must enter 3D PIN code for changing display mode.

- 1 In the **3D Setup** menu, press ▲ or ▼ to select **3D Safety Settings** and press (OK).
- 2 Enter your 4-digit 3D PIN code.
- 3 Press ▲ or ▼ to select **3D Lock** and press ◀ or ▶ to select **On** or **Off**.

**NOTE:** **3D Timer Lock** and **Enable 3D Timer** are only available when **3D Lock** is **On**.

## 3D Timer Lock

When **3D Timer Lock** is set to **On**, neither the PIN input window nor the 3D start message will be shown while the 3D Enable timer is active, even if a switch to 3D Mode occurs. This helps to avoid asking for the 3D Lock PIN and displaying 3D start message every time when switching to 3D.

- 1 In the **3D Setup** menu, press ▲ or ▼ to select **3D Safety Settings** and press (OK).
- 2 Enter your 4-digit 3D PIN code.
- 3 Press ▲ or ▼ to select **3D Timer Lock** and press ◀ or ▶ to select **On** or **Off**.

## Enable 3D Timer

This feature helps to remind you not to watch 3D video for extended periods of time. Once a set period of time has passed, a dialogue will be shown asking you if you wish to continue viewing or not.

- 1 In the **3D Setup** menu, press ▲ or ▼ to select **3D Safety Settings** and press (OK).
- 2 Enter your 4-digit 3D PIN code.
- 3 Press ▲ or ▼ to select **Enable 3D Timer** and press ◀ or ▶ to select **30 minutes**, **60 minutes**, **90 minutes**, **120 minutes** or **Off**.

**NOTE:** **Enable 3D Timer** is only available when **3D Lock** and **3D Timer Lock** is **On**.



---

## 3D Important Info

---

In the **3D Setup** menu, press ▲ or ▼ to select **3D Important Info** and press **OK**.

A message will appear.

---

## Left and Right Image

---

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

- 1** Press **QUICK**. Press ▲ or ▼ to select **3D Settings** and press **OK**.
- 2** Press ▲ or ▼ to select **Left and Right Image**, and press ◀ or ▶ to adjust the settings as required.
- 3** Press ◀ or ▶ to select **Normal** or **Swapped**.

**NOTE:** **Left and Right Image** is only available when **Display Mode Select** is **3D**.

# Caution and Other Information for 3D

## Important information for 3D viewing

Available 3D glasses:

Toshiba FPT-AG03

### CAUTION

- **This product contains a coin/button cell battery. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.**
- **The 3D function has been designed for private use and entertainment in your home environment.**

Please note that any commercial use of the 3D function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.

### About handling the 3D glasses

- **Do not leave the 3D glasses or the accessories within the reach of small children.**

Inhaling or swallowing them may cause suffocation or lesions in the stomach wall.

If swallowed, consult a doctor immediately.

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

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

Contact the Toshiba Call Center for repair of your 3D glasses.

- **Do not expose the glasses to excessive heat such as sunshine, fire, or the like.**

### About the 3D glasses

- **Do not use the 3D glasses if they are not working properly or broken.**

Continuing to use them in such a state may cause injury, eye strain, or indisposition.

Do not use the 3D glasses if they are broken or have any cracks.

- **Do not stand or walk while wearing 3D glasses.**

You may lose your balance which could result in falls or other accidents.

- **Do not wear the 3D glasses for any purpose other than viewing 3D programming.**

3D glasses do not function as sunglasses.

- **Do not drop, exert pressure on, or step on the 3D glasses.**

Doing so may damage the glass section, which may result in injury.

Exposing the 3D glasses to liquid or excessive heat may damage the liquid crystal shutter function.

- **If your nose or temple turns red, or you feel pain or discomfort, stop using the 3D glasses.**

Such symptoms as above may occur if you keep wearing them for a long time, which may also cause indisposition.

- **Be careful not to pinch your fingers in the hinge of the 3D glasses.**

### Cautions on watching 3D images

- **Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games.**

Anyone who has had a seizure, loss of awareness, or other symptoms linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.

- **Avoid use of the 3D function when under the influence of alcohol.**
- **If you are ill or feel ill, you should refrain from viewing 3D images, and consult your health care provider as may be appropriate.**
- **If you experience any of the following symptoms when viewing 3D video images, stop viewing and contact your health care provider:**

Convulsions, eye or muscle twitching, loss of awareness, altered vision, involuntary movements, disorientation, eye strain, nausea/vomiting, dizziness, headaches.

- **If you feel eye fatigue or other discomfort from viewing 3D video images, remove the 3D glasses and discontinue use until the condition is eliminated.**
- **Viewing in 3D may cause dizziness and/or disorientation for some viewers.**

Therefore, to avoid injury do not place your TV near open stairwells, balconies, or wires.

Also do not sit near objects that could be broken if accidentally hit.

- **When viewing 3D images, always wear 3D glasses.**

Watching 3D images without 3D glasses may cause eye strain.

Use specified 3D glasses.

- **When watching 3D images, do not wear 3D glasses at an angle and do not lie down.**

If you watch while lying down or with the glasses tilted, the 3D effect is lost and it may cause eye strain.

- It is recommended that the viewer's eyes and 3D glasses are level with the screen.
- If you have prescription eye glasses or contact lenses, wear the 3D glasses over them.

Watching 3D images without appropriate eye-wear may cause eye strain.

- If 3D images often appear in double or if you cannot see the images in 3D, stop viewing.  
Continuous viewing may cause eye strain.
- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above.

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

- Watching TV while sitting too close to the screen for an extended period of time may cause eye strain.

The ideal viewing distance should be at least three times the screen height.

- Switching left and right images.

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

#### If the 3D PIN number has been forgotten:

Use the Master PIN code of 1276, and then change to a number of your choice. Select **3D PIN** from the **Preferences / 3D Setup** menu to enter PIN.

#### Notes on handling the 3D glasses' liquid crystal shutter lenses

- Do not put excessive force on the lenses.
- Do not scratch the surface of the lenses with sharp objects.
- Do not drop or bend the 3D glasses.

#### Notes on IR communication

- Do not block the IR sensor for 3D glasses on the TV by placing objects in front of it.
- Do not cover the IR sensor on the 3D glasses with stickers or labels.
- Keep the IR sensor on the 3D glasses clean.
- The use of 3D glasses could interfere with other IR communication devices. Other IR communication devices may cause the 3D glasses not to work correctly. Use the TV and 3D glasses in a place where they will not interfere with other devices or products.

#### Notes on watching the TV

- 3D effect and image quality may vary depending upon content quality and display device capability/functionality/settings.
- If you use any device, such as a mobile phone or mobile wireless device, near the 3D glasses, the 3D glasses may not work correctly.
- Use the product in the following temperature range; otherwise, the quality of the 3D image or the reliability of the product cannot be guaranteed.
  - 3D glasses: 0°C - 40°C (32°F - 104°F)
  - TV: 0°C - 35°C (32°F - 95°F)
- If you use a fluorescent light, it may flicker depending on the frequency of the light. In this case, reduce the brightness of the fluorescent light, or use another light. (It is not recommended to watch the TV in a dark room, especially for children.)
- Wear the 3D glasses properly, otherwise you may not see the correct 3D image.
- When not viewing 3D images on this unit, take off the 3D glasses; otherwise, it may be difficult to see the display on other products such as PC, digital clock or calculator, etc.
- The 2D to 3D conversion function is activated and controlled by you according to your personal preferences.
- The 2D to 3D conversion function is meant for enjoyment of 2D home video, and other 2D content you create, in 3D according to your personal preferences.
- The 2D to 3D conversion function is not intended for use with pre-recorded 2D copyrighted content owned by a third-party unless the copyright owner has given direct or indirect permission, or unless applicable law permits such use.

#### About the connecting cable

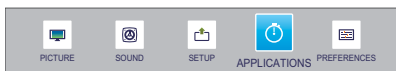
- Use a high-speed and high-quality HDMI cable when you connect a device such as 3D compatible Blu-ray Disc™ player or PC to the TV. When you use a standard HDMI cable, 3D images may not be shown.

# Preference Controls

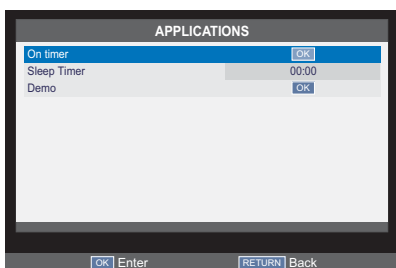
## On Timer

This feature allows you to set the television to turn on automatically to a preset channel at a certain time of day or after a certain length of time.

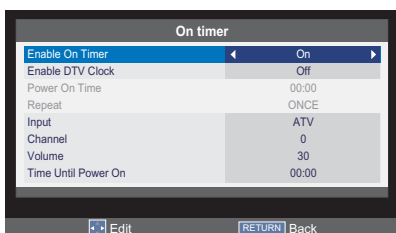
- 1 Press **MENU**. Press ◀ or ▶ to select **APPLICATIONS** and press **OK** to enter the submenu.



- 2 Press ▲ or ▼ to select **On timer** and press **OK** to enter the submenu.



- 3 Press ▲ or ▼ to select **Enable On Timer** and press ◀ or ▶ to select **On** or **Off**.



**NOTE:** The settings are only available when **Enable On Timer** is **On**.

- 4 Press ▲ or ▼ to select **Enable DTV Clock** and press ◀ or ▶ to select **On** or **Off**.

**NOTE:** **Power On Time** and **Repeat** are only available when **Enable DTV Clock** is **On**.

- 5 Press ▲ or ▼ to select **Power On Time** and press ◀ or ▶ or use the number key pad on the remote to enter the time.

- 6 Press ▲ or ▼ to select **Repeat** and press ◀ or ▶ to select **ONCE**, **DAILY**, **Mon.~Fri.**, **Mon.~Sat.** or **Sat.~Sun.**

- 7 Press ▲ or ▼ to select **Input** and press ◀ or ▶ to select **ATV**, **EXT 1**, **EXT 2**, **EXT 3**, **HDMI 1**, **HDMI 2**, **PC** or **DTV**.

- 8 Press ▲ or ▼ to select **Channel** and press ◀ or ▶ to change the channel number or use the number key pad on the remote to enter the channel number.

### NOTE:

- **Channel** is only available when the **Input** is **ATV** or **DTV**.
- Blank screen will appear if not tuned.

- 9 Press ▲ or ▼ to select **Volume** and press ◀ or ▶ to modify the volume, or use the number key pad on the remote to enter the volume.

- 10 Press ▲ or ▼ to select **Time Until Power On** and press ◀ or ▶ or use the number key pad on the remote to enter the time for the TV to turn on automatically.

**NOTE:** **Time Until Power On** is only available when **Enable DTV Clock** is **Off**.

## Sleep Timer

The television can be set to turn itself Off after a certain length of time.

- 1 Press **MENU** and press ◀ or ▶ to select **APPLICATIONS**.

- 2 Press ▲ or ▼ to select **Sleep Timer** (Turn off the TV).

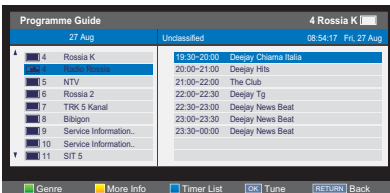
- 3 Press ◀ or ▶ to modify the time the TV should turn off, or use the number key pad on the remote to enter the time.

## EPG

**EPG** (Electronic Programme Guide) supports 9 sets of timers. You can set or cancel a timer for a selected programme within the guide. When the TV is on and the timer activates, a dialogue box is shown informing you that the programme is about to start. When the TV is in standby mode and the timer activates, the TV will wake up with backlight off, speaker mute on, and change to the channel selected.

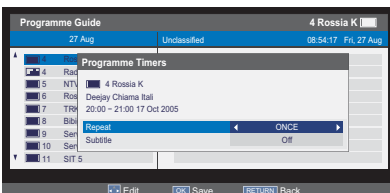
You must set the time correctly before using this function. All set timers are cleared when performing a new channel scan.

- 1 Press **GUIDE** on the remote to display the **Programme Guide**.



- 2 Press **▲** or **▼** to select the desired channel and press **OK** to enter the programme schedule.

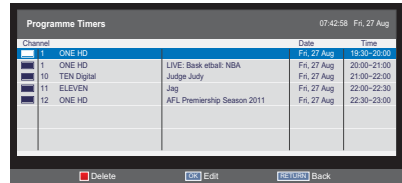
- 3 Press **▲** or **▼** to select the desired programme and press **OK** to enter the **Tune** menu.



Press **▲** or **▼** to select **Repeat** or **Subtitle** and press **◀** or **▶** to adjust the settings as required.

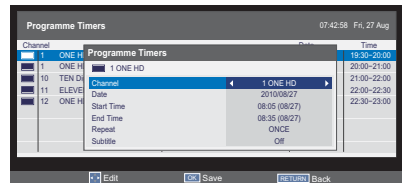
Press **OK** to save the settings.

- 4 Press the **■** button on the remote to enter the **Timer List** menu.



- 5 Press **▲** or **▼** to select the desired programme and press **OK** to edit.

**NOTE:** Press the **■** button on the remote to delete the timer.



Press **▲** or **▼** to select **Channel**, **Date**, **Start Time**, **End Time**, **Repeat** or **Subtitle** and press **◀** or **▶** to adjust the settings as required.

Press **OK** to save the settings.

**NOTE:** After adjustment, the TV clock may not match the time in the EPG Programme Guide. The EPG Programme Guide time follows the broadcast stream time which can not be adjusted.

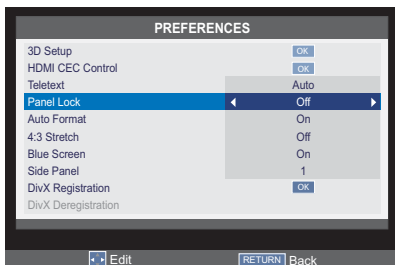
## Panel Lock

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

- 1 Press **MENU**. Press ◀ or ▶ to select **PREFERENCES** and press **OK** to enter the submenu.



- 2 Press ▲ or ▼ to select **Panel Lock** and press ◀ or ▶ to select **On** or **Off**.



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

## Auto Format (Widescreen)

When this television receives a true Widescreen picture and Auto format is **On**, it will automatically be displayed in Widescreen format, irrespective of the television's previous setting.

- 1 In the **PREFERENCES** menu, press ▲ or ▼ to select **Auto Format**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

## 4:3 Stretch

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

- 1 In the **PREFERENCES** menu, press ▲ or ▼ to select **4:3 Stretch**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

**NOTE:** In HDMI signal format, this function is available.

## Blue Screen

When **Blue Screen** is selected, the screen will turn blue when no signal is received.

- 1 In the **PREFERENCES** menu, press ▲ or ▼ to select **Blue Screen**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

**NOTE:** This function is not available in DTV mode.

## Side Panel

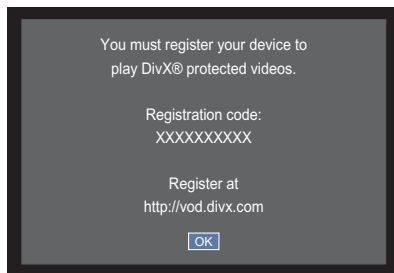
The **Side Panel** feature lightens or darkens the band each side of the screen when in 4:3 or 14:9 format. This helps prevent image retention of the band and can also make viewing in bright or dark conditions more comfortable.

- 1 In the **PREFERENCES** menu, press ▲ or ▼ to select **Side Panel**.
- 2 Press ◀ or ▶ to adjust the settings as required.

## DivX Registration

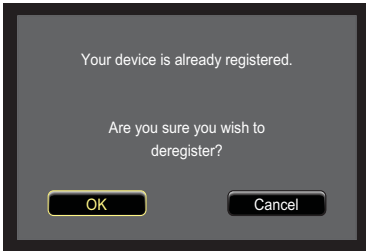
View the registration code that is required to play video files that are compatible with the DivX® VOD (Video On Demand) service on the TV. DivX® VOD is a video delivery service that lets you rent or purchase video content recorded in DivX® format. To play video files that are compatible with the DivX® VOD service, the TV needs to be registered as a DivX® player.

In the **PREFERENCES** menu, press ▲ or ▼ to select **DivX Registration** and press **OK**.

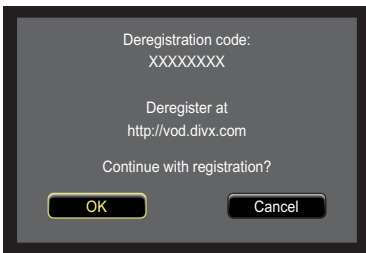


## DivX Deregistration

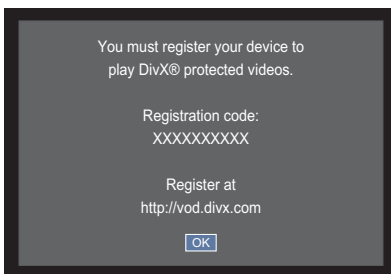
- 1 In the **PREFERENCES** menu, press ▲ or ▼ to select **DivX Deregistration** and press **OK**.
- 2 Press ◀ or ▶ to select **OK** to confirm or select **Cancel** to exit and press **OK**.



- 3 Press ◀ or ▶ to select **OK** to confirm or select **Cancel** to exit and press **OK**.

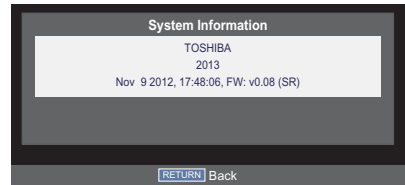


- 4 Press **OK** to exit.



## System Information

In the **SETUP** menu, press ▲ or ▼ to select **System Information** and press **OK** to display the model information and firmware version.



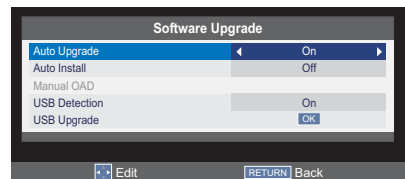
## Software Upgrade

- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the submenu.

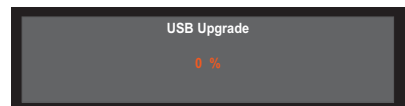


- 2 Press ▲ or ▼ to select **Software Upgrade** and press **OK** to enter the submenu.

- 3 Press ▲ or ▼ to select **Auto Upgrade** and press ◀ or ▶ to select **On** or **Off**.



- 4 Insert a USB storage device. Press ▲ or ▼ to select **USB Upgrade** and press **OK** to start upgrading the firmware.



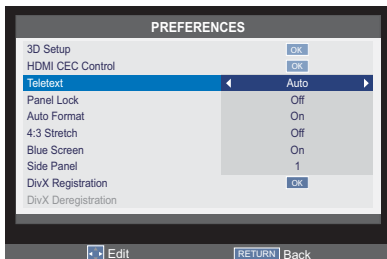
**NOTE:** Firmware upgrading is suggested to be done by the professional service personnel.

# Text Services and Text Information

This television has a multi-page text memory, which takes a few moments to load.

## Setting the Modes

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



- 2 Press ◀ or ▶ to select **Auto** or **LIST**.

## Navigating Pages using Auto

If Fastext is available, four coloured titles will appear at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control.

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

## Navigating Pages using LIST

If Fastext is available, four coloured titles with numbers 100, 200, 300 and 400 have been programmed into the television's memory.

To view these pages press the relevant coloured buttons.

To change these stored pages press the relevant coloured button and enter a new 3 digit number. This number will change in the top left of the screen and in the coloured highlight. Press **OK** to store. The bars at the bottom of the screen will flash white. Whenever **OK** is pressed all four page numbers showing at the bottom will be stored and the previous ones will be lost.

If **OK** is not pressed the selection will be forgotten when text is cancelled.

Other pages may be viewed by entering the 3 digit page number – but DO NOT press **OK** or these pages will be stored.

## Control Buttons

Below is a guide to the functions of the remote control text buttons.

### **1** Displays the index/initial page:

Press **1** to access the index/initial page. The page displayed is dependant on the broadcaster.

### **2** Reveals concealed text:

To discover the solutions on quiz and joke pages press the **2** button.

### **3** Holds a wanted page:

At times it is convenient to hold a page of text.

Press **3** and **3** will appear in the top left of the screen. The page will be held on-screen until the button is pressed again.

### **4** Enlarges the text display size:

Press **4** once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

### **5** Selects a page while viewing a normal picture:

Enter the page number then press **5**, a normal picture will be displayed. The television will indicate when the page is present by displaying the page number at the top of the screen.

### To display news flashes:

Select the news flash page for the chosen text service (see the index page of your text service).

By pressing **5**, news flashes will be displayed as and when they are broadcast. Press **5** again to cancel the display.

### How to change the page:

Press ▲ or ▼ to change the page.

Press ◀ or ▶ to change the sub page when a sub page is available.

The news flash page must be cancelled before changing channels.



## PC Settings

- 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** is not displayed.
- First press  $\odot$  until the video input mode list appears on the screen, then press  $\blacktriangle$  or  $\blacktriangledown$  and  $\odot$  in order to select the PC input mode.
- 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.

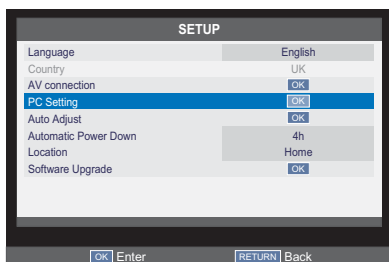
### Horizontal and Vertical Position

Connect the PC (as shown in the “Connecting a Computer” section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.

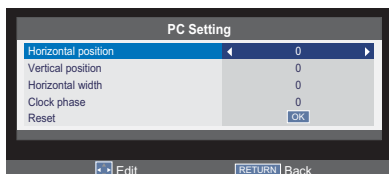
- 1 Press **MENU**. Press  $\blacktriangleleft$  or  $\blacktriangleright$  to select **SETUP** and press  $\odot$  to enter the submenu.



- 2 Press  $\blacktriangle$  or  $\blacktriangledown$  to select **PC Setting**, and press  $\odot$  to enter the submenu.



- 3 Press  $\blacktriangle$  or  $\blacktriangledown$  to select **Horizontal position** or **Vertical position** and press  $\blacktriangleleft$  or  $\blacktriangleright$  to adjust the settings as required.



### Horizontal Width

- 1 In the **PC Setting** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Horizontal width**.
- 2 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to adjust the settings as required.

### Clock Phase

The **Clock phase** matches the PC signal with the LCD display.

Adjusting this can clear horizontal stripes and picture blur.

- 1 In the **PC Setting** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Clock phase**.
- 2 Press  $\blacktriangleleft$  or  $\blacktriangleright$  to obtain a clear picture.

### Reset

This feature resets all PC settings to the factory settings.

**NOTE:** If any PC settings have not been changed, **Reset** is not available.

- 1 In the **PC Setting** menu, press  $\blacktriangle$  or  $\blacktriangledown$  to select **Reset**.
- 2 Press  $\odot$ .

**NOTE:**

- When a PC is connected using HDMI none of these functions will be available.
- The screen is disrupted momentarily when adjusting PC setting. This is not a sign of malfunction.
- The default settings and adjustment ranges may vary depending on the input signal format.

# Input Signal Selection

Use the Input Selection feature if the television does not switch over automatically when using an external device.

## Input Signal Selection

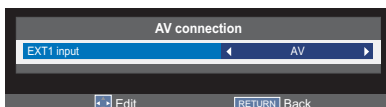
You can select source of **AV** or **S-VIDEO** from this function.

- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the submenu.



- 2 Press ▲ or ▼ to select **AV connection**, and press **OK** to enter the submenu.

- 3 Press ▲ or ▼ to select **EXT1 input** and press ◀ or ▶ to select **AV** or **S-VIDEO**.



## Frequently Asked Questions

**Q** Why is there no sound or picture?

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

**Q** There is a picture, but why is there little or no colour?

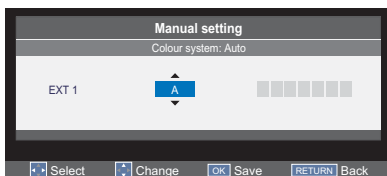
The colour is factory set to **Auto** to automatically display the best colour system.

**A** When using an **external** source, if there is little or no colour, improvements may sometimes be achieved.

To manually change the colour system:

**1** With the external source playing, select **Manual setting** in the **SETUP** menu.

**2** Using **▲** or **▼** to choose from **Auto**, **NTSC 4.43**, **NTSC 3.58**, **SECAM** or **PAL**.



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

**A** Make sure the Media player or DVD player is connected to the television, then select the correct input by pressing **↻**.

**Q** Why is there a good picture but no sound?

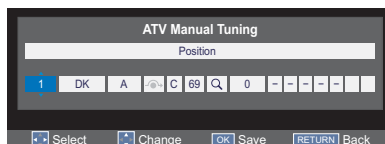
**A** Check all cable connections and that the volume has not been turned down or that the sound has not been muted.

**Q** What else can cause a poor picture?

**A** Interference or a weak signal. Try a different television station. Manual fine tuning may help:

**1** Select the **ATV Manual Tuning** in the **SETUP** menu.

Highlight the station and press **⊙**, then press **◀** or **▶** to select **Manual fine tuning**.



**2** Using **▲** or **▼** to adjust to get the best picture and sound. Press **⊙** and then **RETURN**.

**Q** Why doesn't the remote control work?

**A** Check that the batteries aren't exhausted or inserted incorrectly.

**Q** Why are there problems with text?

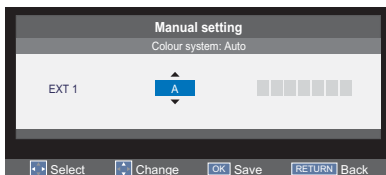
Good performance of text depends on a strong broadcast signal. If the text is unreadable or garbled, check the aerial, satellite or cable connection. Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

**Q** Why are the four coloured text numbers visible but no text (Analogue Only)?

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

**Q** *Why are the colours wrong when an NTSC source is played?*

**A** Connect the NTSC source via a SCART cable and play. Select **Manual setting** from the **SETUP** menu and set the **Colour System** to **Auto**.



**Q** *What can be done if the user-defined password has been forgotten?*

**A** Use the universal password 1276, then change to a new number of your choice.

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

**A** Make sure to use cables with the HDMI logo (**HDMI**<sup>®</sup>). Some early HDMI equipment may not work properly with the latest HDMI TV products, due to adoption of new standards.

**Q** *Why is the Media Player/DVD picture in black and white?*

**A** Check the correct input has been chosen: S-VIDEO or AV.

**Q** *Why did TV turn off by itself?*

**A** After roughly 15 minutes without any input video signal at TV mode, the TV will turn off to reduce power.


# Specifications and Accessories


- This television complies with the specification listed below.


<b>DVB-T Broadcast systems/ channels</b>		<b>Broadcast systems/channels</b>		<b>Annual power consumption<sup>2</sup> (approx.)</b>	40L53** 50L53** 58L53**	68.8kWh/y 103.4kWh/y 136.7kWh/y
UK	UHF 21-68	PAL-I	UHF UK21-UK69			
France	VHF 05-10 (VHF 01-05) UHF 21-69	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41			
Germany	VHF 05-12 UHF 21-69	SECAM-L	UHF F21-F69 VHF F1-F10, B-Q			
Austria	VHF 05-12 UHF 21-69	SECAM-D/K	UHF R21-R69 VHF R1-R12			
Switzerland	VHF 05-12 UHF 21-69					
Italian	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69					
Spain	UHF 21-69					
Nederlands	VHF 05-12 UHF 21-69					
Greece	VHF 05-12 UHF 21-69					
<b>DVB-C Broadcast systems</b>						
<b>DVB-T2 Broadcast systems (L535* series only)</b>						
<b>Video Input</b>	PAL, SECAM, NTSC 3.58/4.43					
<b>External connections</b>						
EXT1	Input/Output	21-pin SCART	Auto, Mixed, RGB, Composite, S-Video / TV Out	<b>Weight (approx.)</b>	<b>TV with stand</b>	40L53** 12.0kg 50L53** 20.0kg 58L53** 28.5kg
EXT2/EXT3	Input	RCA jacks RCA jacks	(EXIT2) Video (EXIT3) Y, P <sub>B</sub> /C <sub>B</sub> /P <sub>R</sub> /C <sub>R</sub>		<b>Gross weight</b>	40L53** 15.5kg 50L53** 25.5kg 58L53** 36.0kg
RGB/PC	Input	D-sub	RGB		<b>TV without stand</b>	40L53** 10.6kg 50L53** 17.8kg 58L53** 25.7kg
HDMI 1/2	Input	HDMI®				
Audio						
EXT2/EXT3		RCA jacks	Audio L + R (shared)			
Digital Audio		Output (S/PDIF)	Coaxial			
USB Port		Interface version: USB 2.0				
		USB Class: USB Flash Drive				
		File system: FAT32				
<b>Stereo</b>		A2, Nicam				
		2 Carrier System				
<b>Energy efficiency Class</b>	40L53** 50L53** 58L53**	A+ Class A+ Class A+ Class				
<b>Visible Screen Size (approx.)</b>	40L53** 50L53** 58L53**	102cm 126cm 146cm				
<b>On mode power consumption<sup>1</sup> (approx.)</b>	40L53** 50L53** 58L53**	47.1W 70.8W 93.6W				
				<b>Power consumption (approx.)</b>	40L53** 107W 50L53** 148W 58L53** 174W	
				<b>Screen Resolution (pixels)</b>	40L53** 1920 x 1080 50L53** 1920 x 1080 58L53** 1920 x 1080	
				<b>Display</b>	16:9	
				<b>Sound Output (At 10% Distortion)</b>	40L53** 7W + 7W 50L53** 7W + 7W 58L53** 7W + 7W	
				<b>Standby power consumption (approx.)</b>	40L53** <0.3W 50L53** <0.3W 58L53** <0.3W	
				<b>Power consumption (approx.)</b>	40L53** 107W 50L53** 148W 58L53** 174W	
				<b>Weight (approx.)</b>	40L53** 12.0kg 50L53** 20.0kg 58L53** 28.5kg	
				<b>Dimensions (H x W x D mm) (approx.)</b>	40L53** 600 x 922 x 182 50L53** 733 x 1131 x 232 58L53** 851 x 1306 x 334	
				<b>Headphone Socket</b>	R3.5mm stereo	
				<b>Operating Conditions</b>	Temperature: 5°C - 35°C (41°F - 94°F) Humidity: 20% - 80% (non-condensing)	
				<b>Supplied Accessories</b>	<ul style="list-style-type: none"> <li>Toshiba 3D glasses: FPT-AG03 40/50/58L53*5 (2pcs)</li> <li>Remote control CT-90437 2 batteries (AAA, IEC R03 1.5V)</li> <li>Screw (for TV mounting) See page 3.</li> </ul>	
				<b>Optional Accessories</b>	Toshiba 3D glasses: FPT-AG03 40/50/58L53*3 40/50/58L53*1	

<sup>1</sup> Tested in accordance with IEC 62087-BD in default settings.

# License Information

- 


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

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- THIS PRODUCT IS LICENSED UNDER THE MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NONCOMMERCIAL USE OF A CONSUMER FOR (i) ENCODING VIDEO IN COMPLIANCE WITH THE MPEG-4 VISUAL STANDARD ("MPEG-4 VIDEO") AND/OR (ii) DECODING MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSE BY MPEG LA TO PROVIDE MPEG-4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com)
- THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com)
- 

DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit [divx.com](http://divx.com) for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.
- 

MHL, the MHL logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL licensing, LLC.
- Blu-ray Disc™, Blu-ray™ are trademarks of the Blu-ray Disc Association

**Cleaning the screen and cabinet...**

Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

**Disposal...**

The following information is only for EU-member states:

**Disposal of products**

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.



The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

**Disposal of batteries and/or accumulators**

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.



If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

**EU Conformity Statement**

This product is carrying the CE-Mark in accordance with the related European Directives.

Responsible for CE-Marking is TOSHIBA TELEVISION CENTRAL EUROPE Sp.z.o.o., ul. Pokoju 1, Biskupice Podgórne, 55-040 Kobierzyce, Poland

This product is labeled with CE Mark in accordance with the related European Directives, notably Low Voltage Directive 2006/95/EC, Electromagnetic Compatibility Directive 2004/108/EC and RoHS Directive 2011/65/EU.

Furthermore the product complies with the Ecodesign Directive 2005/32/EC (EuP) and 2009/125/EC (ErP) and its related implementing measures.

If this product has an integrated Wireless LAN feature, the Radio Equipmen and Telecommunications Terminal Equipment Directive 1999/5/EC is also applicable.

**DVB is a registered trademark of the DVB Project**

© TOSHIBA Television Central Europe Sp. z o.o. 2013

All rights reserved.

Reproduction in whole or part without written permission is strictly prohibited.

TOSHIBA Television Central Europe Sp. z o.o.  
ul. Pokoju 1, Biskupice Podgórne, 55-040 Kobierzyce, Poland  
Specification is subject to change without notice.

© **TOSHIBA Television Central Europe Sp. z o.o. 2013**  
All rights reserved.  
Reproduction in whole or part without written permission is strictly prohibited.

**TOSHIBA Television Central Europe Sp. z o.o.**  
ul. Pokoju 1, Biskupice Podgórne, 55-040 Kobierzyce, Poland  
Specification is subject to change without notice.