

# **TOSHIBA**

Leading Innovation >>>

## **Owner's Manual**

L243\*DB / W243\*DB  
LED backlight LCD TV

**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.

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## 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 set should be operated only from a 220-240 V AC 50Hz outlet. DO ensure that the television is not standing on the mains 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.

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 a solid base in accordance with the installation instructions.

**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.

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

# 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.

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.

## When using a Wall Bracket

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

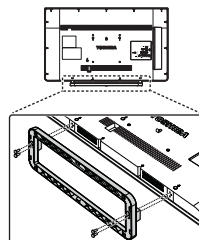
- Two people are required for installation.
  - To install a wall-mount from another manufacturer.
1. Unplug and remove any cables and/or other connections from the rear of the TV.
  2. Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket.
  3. Follow 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.

32W24\*\* | 32L/40L24\*\* x 4



## 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:

- fire;
- earthquake;
- accidental damage;
- intentional misuse of the product;
- use of the product in improper conditions;
- loss and/or damage caused to the product while in the possession of a third party;
- 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;
- 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.

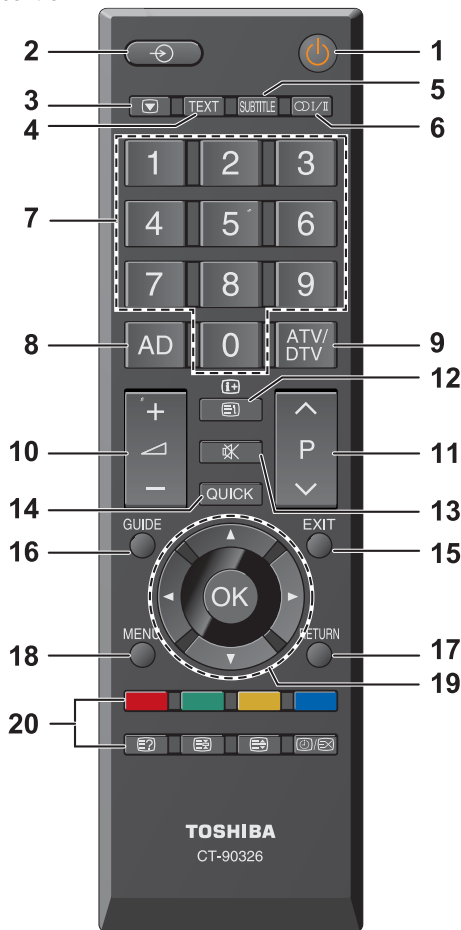
- The digital reception function of this television is only effective in the countries listed in the **Country** section of the **SETUP** menu. Depending on country/area, some of this television's functions may not be available. Reception of future additional or modified services can not be guaranteed 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) instructions 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

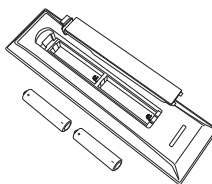
Simple at-a-glance reference of your remote control.



- 1 Switch between TV ON or Standby
- 2 Switch between external input sources
- 3 Still Picture
- 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  
⊙ Confirm the selection
- 20 Colour button: Text control buttons  
⊞ Reveal concealed text  
⊞ Hold a wanted page  
⊞ Enlarge text display size  
⊞ 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.

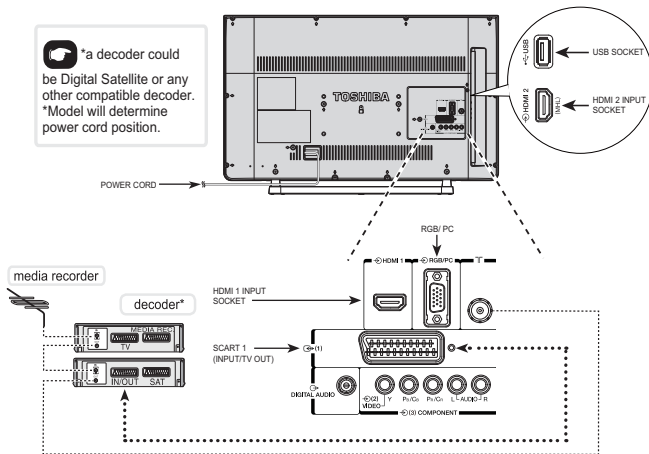
Do not combine a used, old battery with a new one or mix battery types. Remove exhausted batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 61 of this manual. Warning: batteries must not be exposed to excessive heat 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.

**ILLUSTRATION SHOWS 32L24.**





**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.

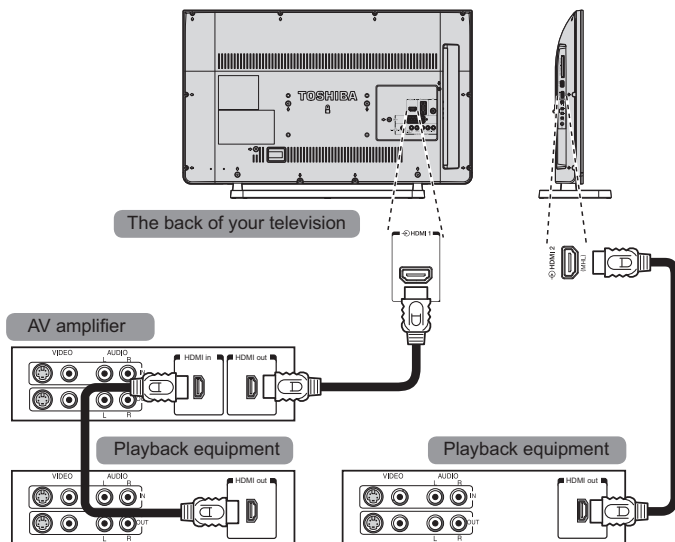
DTV Programme	SCART Analog Output
Scrambled with CGMS-A: 00 (Copy Freely)	Output via SCART
Scrambled with CGMS-A: 01 (Copy No More)	Not output via SCART
Scrambled with CGMS-A: 10 (Copy Once)	Not output via SCART
Scrambled with CGMS-A: 11 (Copy Never)	Not output via SCART
Non- scrambled	Output via SCART

\*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.

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# 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 14.

## 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.

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## To connect an HDMI device

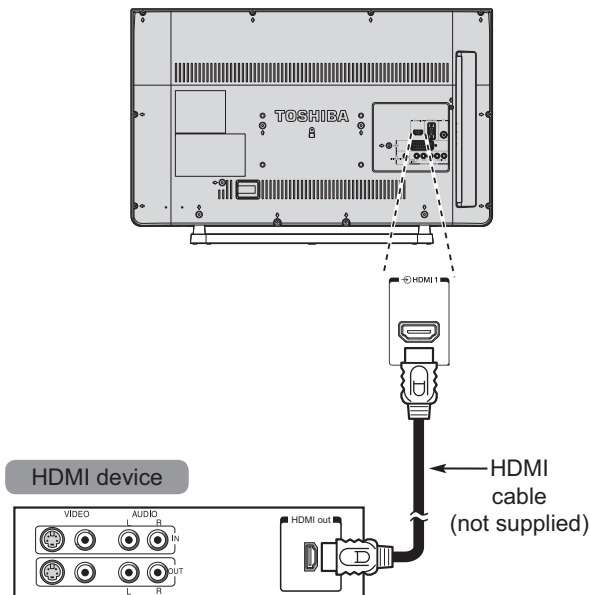
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Connect an HDMI cable (type A connector) from the device to the HDMI terminal.

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).

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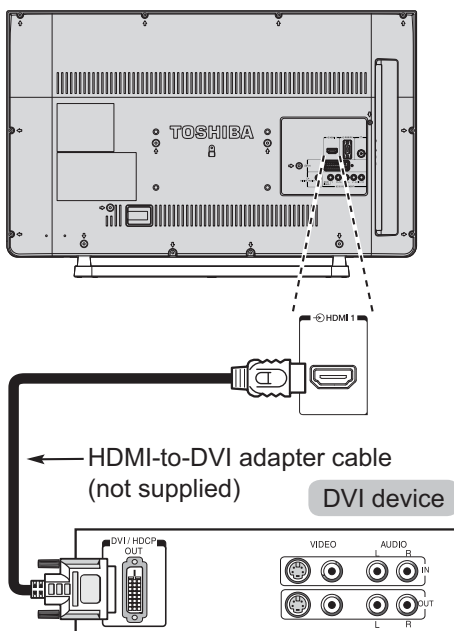
To view the HDMI device video, press the  button to select HDMI 1 or HDMI 2 mode.

## 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.

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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.

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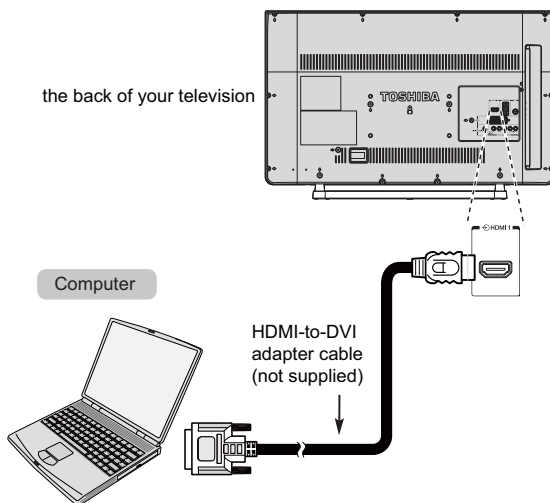
## To connect a PC to the HDMI terminal

---

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.

*ILLUSTRATION SHOWS 32L24.*



For acceptable PC and video signal formats, see page 14.

### 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

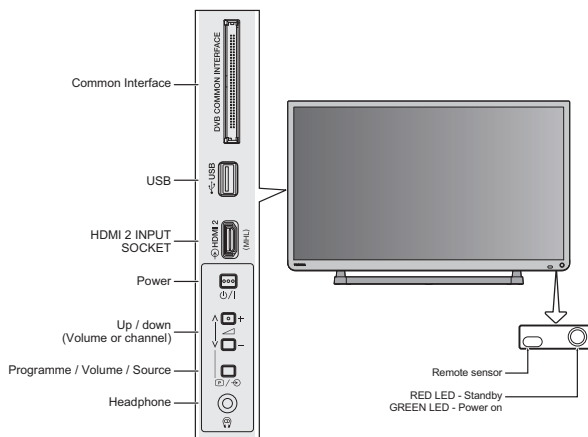
## Acceptable PC signals through HDMI terminals

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.

**ILLUSTRATION SHOWS 32L24.**



### 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 **OK** to enter the sub menu. Then press **▲** or **▼** on the navigation ring to move up and down through the menu and use **OK** 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.

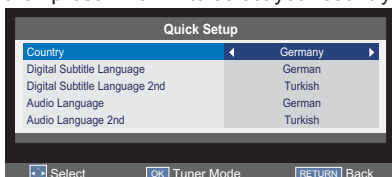
## First Time Using

- 1** For first time use, plug in the television and press the button. The **Language** menu will appear.

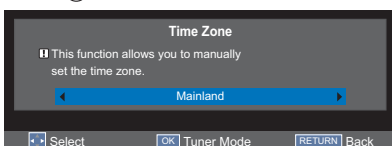


**NOTE:** This function is accessed in the **SETUP** → **Quick Setup** menu.

- 2** Press , , or to select your language.  
**3** Press to enter **Quick Setup** menu. Press or to select **Country** and then press or to select your country.



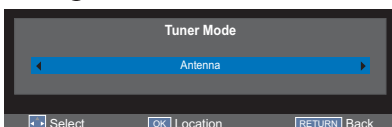
- 4** Press or to select **Digital Subtitle Language**, **Digital Subtitle Language 2nd**, **Audio Language** and **Audio Language 2nd**, then press or to select your preferred language.  
**5** Press to select **Time Zone**.



Press or to select **Mainland** or **Canary Islands**.

**NOTE:** This function is only available when **Country** is **Spain**.

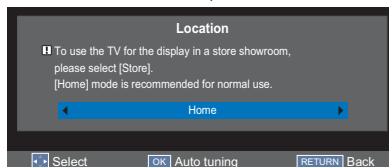
- 6** Press to select **Tuner Mode**.



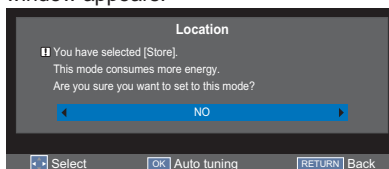
Press or to select **Antenna** or **Cable**.  
**NOTE:** This function is only available in certain regions.

Press to select **Location**.

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



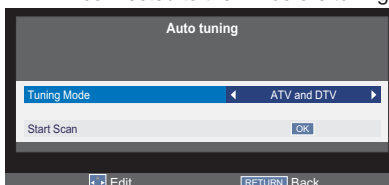
When **Store** is selected, the confirmation window appears.



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

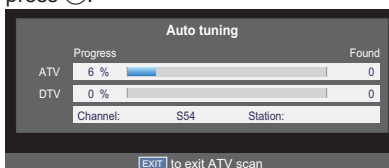
- 8** Press to enter the **Auto tuning** menu.

**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 .



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.

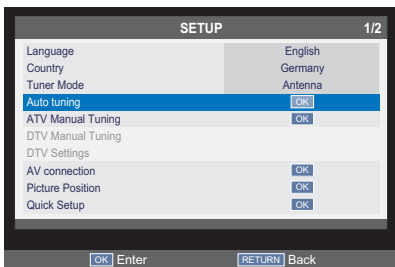
**NOTE:** All the current channels and settings, for example, the locked channels, will be lost.

### Tuner Mode - Antenna

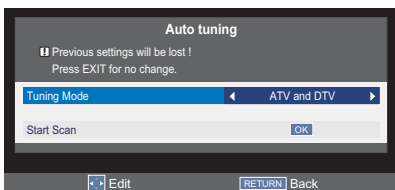
- 1 Press **MENU**. Press ◀ or ▶ to select **SETUP** and press **OK** to enter the submenu.



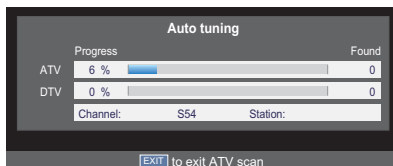
- 2 Press ▲ or ▼ to select **Auto tuning**, and press **OK** to enter the submenu.



- 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**.



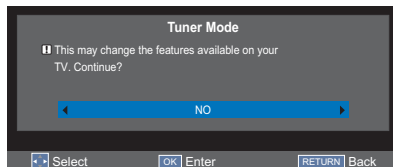
### Tuner Mode - Cable

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

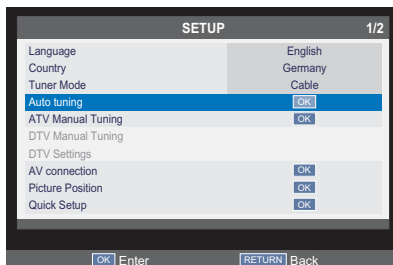
All the current channels and settings, for example, the locked channels, will be lost.

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

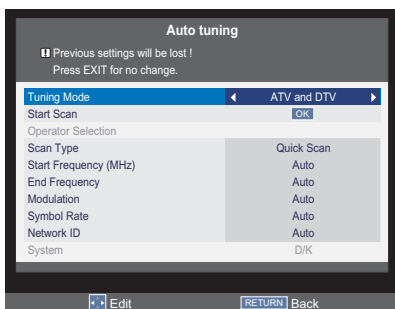
Press ◀ or ▶ to select **YES** or **NO**.



- 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:**

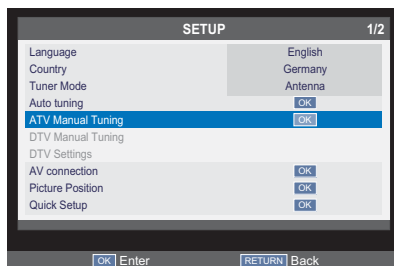
- The information should be given by your cable provider.
- **Network ID** is only available for **Quick Scan**.

## 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.



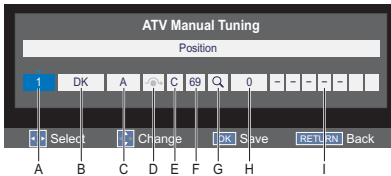
- 3 Press ▲ or ▼ to select the programme position you want to arrange and then press ▶.



- 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.



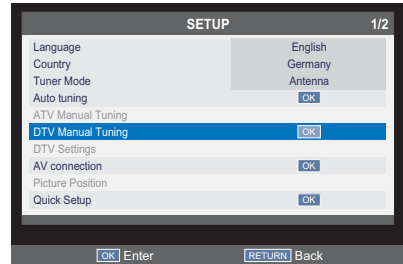
- 5** Press **OK** to display the breakdown menu. Press **◀** or **▶** to select an item, then press **▲** or **▼** to select the item as shown below.



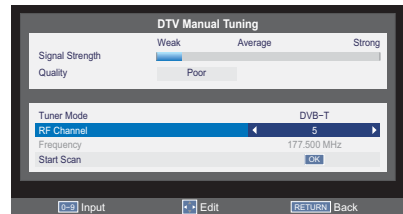
- A Position:**  
The number to be pressed on the remote control.
- B System:**  
Specific to certain areas.
- C Colour system:**  
Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.
- D Skip:**  
- means nothing has been stored or the facility 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.



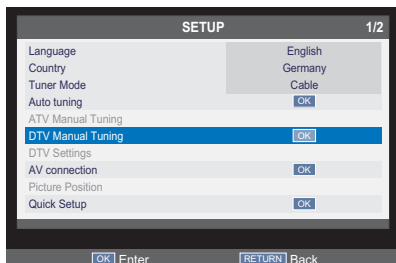
- 3** Press **▲** or **▼** to select **RF Channel** and press **◀** or **▶** to select or use number key pad on the remote to enter a channel.



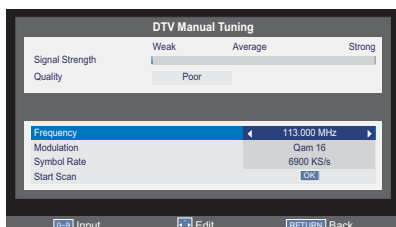
- 4** Press **▲** or **▼** to select **Start Scan** and press **OK** to start tuning.

## DTV mode - Cable

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



- 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.

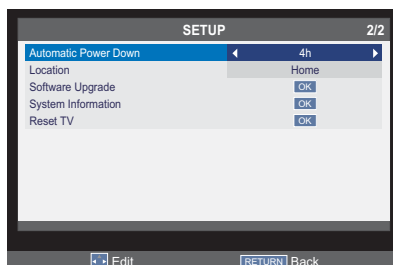


Press ▲ or ▼ to select **Start Scan** and press **OK** to start tuning.

## 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.

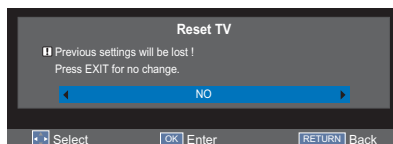
- 1 In the **SETUP** menu, press ▲ or ▼ to select **Automatic Power Down**.
- 2 Press ◀ or ▶ to select **Off**, **4h**, **6h** or **8h**.



## 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

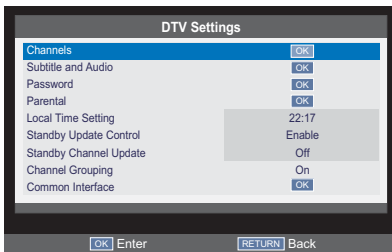
The channel order may be changed to suit your personal preference.

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

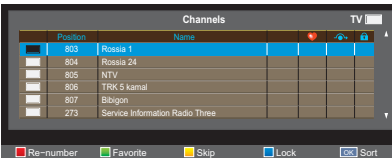
- 1 Press **MENU**. Press **◀** or **▶** to select **SETUP** and press **OK** to enter the submenu.



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

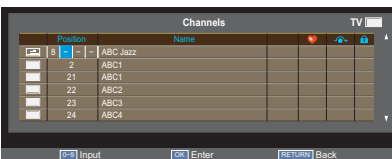


- 4 Press **▲** or **▼** to select **Channels**.



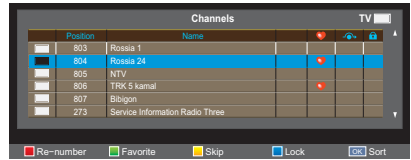
## Re-number

- 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**.

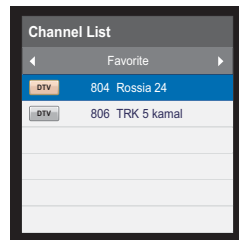


## Favorite

- 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.



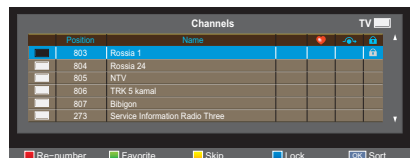
## Skip

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



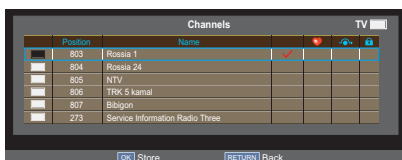
## Lock

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



## Sort

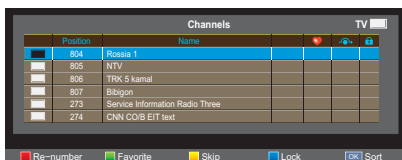
- 10** Press ▲ or ▼ to select the desired channel and then press **OK**. A tick icon appears.



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.

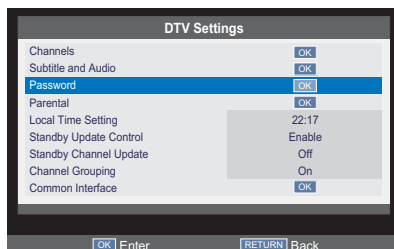
**Subtitle Language** or **Audio Language** allow a programme or film to be viewed with a choice of soundtrack language, provided they are currently being broadcast.

- 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.

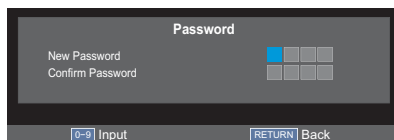
## Password

Change the 4-digit parental control password. The factory default password is "1276".

- 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 "1276".

**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 **3-18** 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.

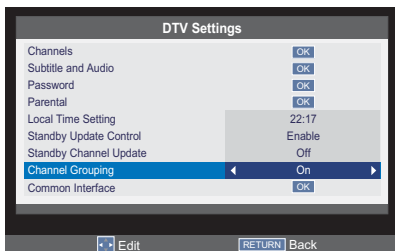
- 1 In the **DTV Settings** menu, press ▲ or ▼ to select **Standby Channel Update**.
- 2 Press ◀ or ▶ to select **On** or **Off**.

**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)
		
		
Audio info		Skip
		Mono
		Stereo
		Dual mono
		Multichannel
		Dolby Digital
		Dolby Digital+
		Audio Coding
		Audio Description
Audio/ Subtitle info		Hearing Impaired

	Icon	Description
Event info		Video format (HD, SD)
		Video Aspect
		Teletext
		Subtitle (Single, Multi)
		Multi-audio track
		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

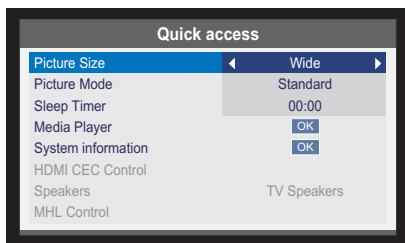
If stereo or dual language broadcasts are transmitted the word Stereo or Dual will appear on the screen each time channels are changed, disappearing after a few seconds. If the broadcast is not in stereo the word Mono will appear.

**Stereo:** Press  $\odot$ /I 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 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**, **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.

### Picture Still

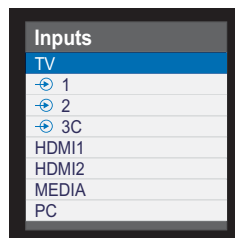
This feature is used to hold a still image on the screen. Press  $\text{TV}$  to hold an image on the screen, press  $\text{TV}$  again to cancel.

### Input Selection

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

Pressing  $\text{TV}$ , a list will appear on-screen showing all external equipment.

Use  $\blacktriangle$  or  $\blacktriangledown$  to highlight and  $\text{OK}$  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.

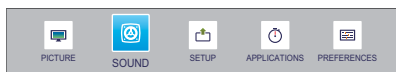
### Sound Mute

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

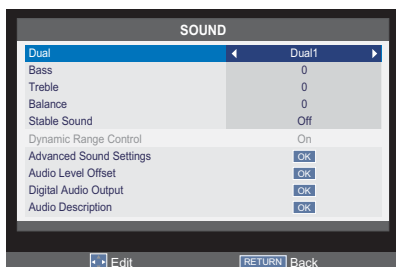
## Dual

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

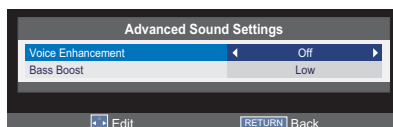
This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).

- 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

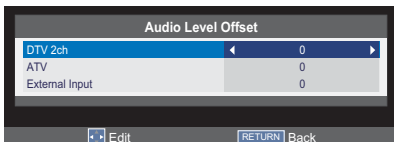
**Bass Boost** enhances depth of the sound.

- 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.

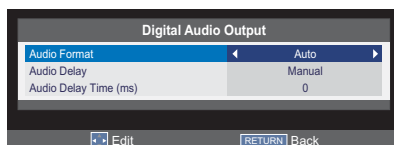


### NOTE:

- 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**.



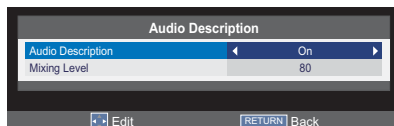
- 4 Press ▲ or ▼ to select **Audio Delay**, and press ◀ or ▶ to select **Auto** or **Manual**.
- 5 Press ▲ or ▼ to select **Audio Delay Time (ms)**, and press ◀ or ▶ to change the setting.

**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**.

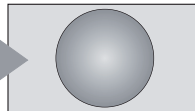
**NOTE:** Press the **AD** button on the remote control to switch the **Audio Description** **On** or **Off**.

## Widescreen Viewing

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

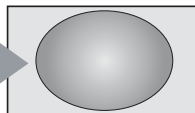
### **Wide (Expect PC)**

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.



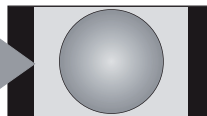
### **Wide (PC only)**

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



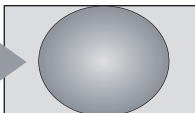
### **4:3**

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



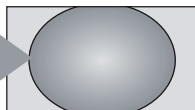
### **Super Live**

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.



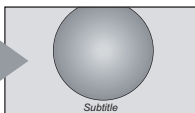
### **Cinema**

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.



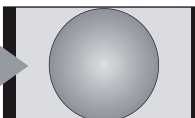
### **Subtitle**

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



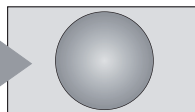
### **14:9**

Use this setting when watching a 14:9 broadcast.



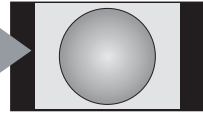
### **Native**

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).

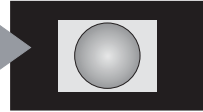


**Normal**

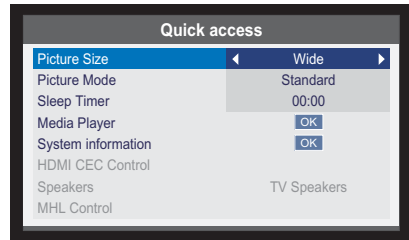
This setting will show the picture without over scan, i.e. WYSIWYG.  
This option is only available when watching a PC signal source via HDMI or PC terminal.

**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	x	x	x
	HD	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	x	x	x
	HD	o	o	o	o	x	x	x	x
HDMI	SD	o	o	o	o	o	o	x	x
	HD	o	o	o	o	x	x	o	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.

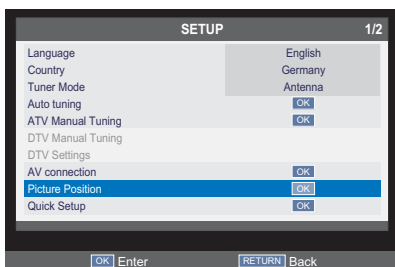
## Picture Position

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

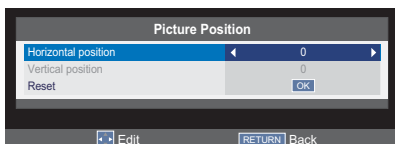
- 1 Press **MENU**. Press **◀** or **▶** to select **SETUP** and press **OK** to enter the submenu.



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



- 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.

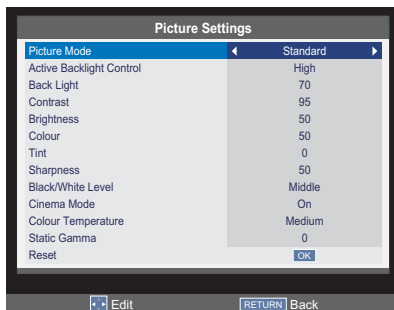
- 1 Press **MENU**. Press **◀** or **▶** to select **PICTURE** and press **OK** to enter the submenu.



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

- 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.

## Cinema Mode

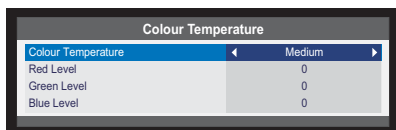
A movie film's picture runs at 24 frames a second, whereas movie software such as DVD, etc., that you enjoy watching on television at home runs at 30 (NTSC) or 25 (PAL) frames a second. To convert this signal to reproduce a smooth motion and picture quality, select the **Cinema Mode**.

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

## 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 **ⓄK** 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**.

## 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**.

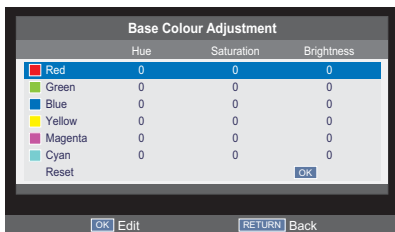
- 1 In the **PICTURE** menu, press **▲** or **▼** to select **3D Colour Management**.
- 2 Press **◀** or **▶** to select **On** or **Off**.

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

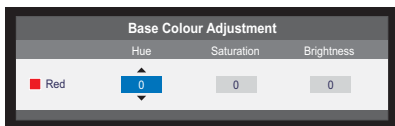
## Base Colour Adjustment

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 **Ⓚ** to enter the submenu.
- 2 Press **▲** or **▼** to select an item you want to adjust and press **Ⓚ**.



- 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

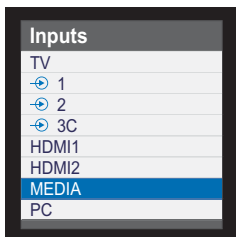
The Photo Viewer allows you to playback image files from a USB storage device.




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

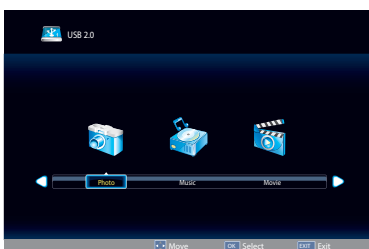
## View Photo Files








- 1** Insert a USB storage device and press  on the remote.

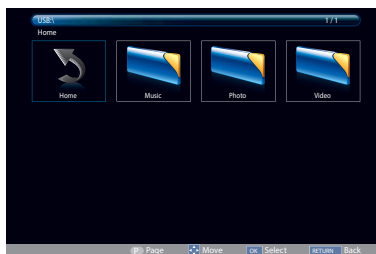
Use  or  to select **MEDIA** and press .








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

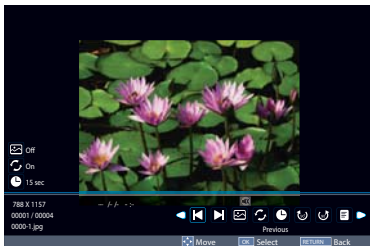


- 3** Press , ,  or  to select the folder you wish to view and press  to enter. Press  or  to page up or down.



- 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
- [Slide Show Icon]: Select slide show mode
- [Repeat Icon]: Select repeat mode
- [Interval Icon]: Select the desired interval time
- [Clockwise Rotation Icon]: Clockwise rotation 90°
- [Counterclockwise Rotation Icon]: Counterclockwise rotation 90°
- [Play 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 [Slide Show 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

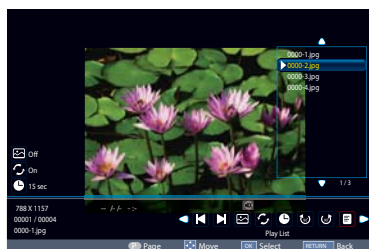
- 1 Press **MENU** to change the settings when viewing a photo.
- 2 Press ◀ or ▶ to select [Repeat Icon] and press [OK] to turn **On** or **Off**.

## Set Interval Time

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

## Using the Play List

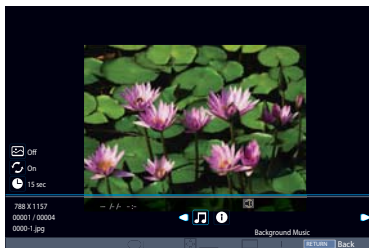
- 1 Press **MENU** to change the settings when viewing a photo.
- 2 Press ◀ or ▶ to select [Play List Icon] and press [OK].
- 3 Press ▲ or ▼ to select a photo and press [OK] to show the photo.  
Press **RETURN** on the remote to collapse the list.




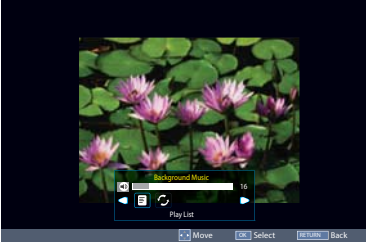
## Background Music

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].

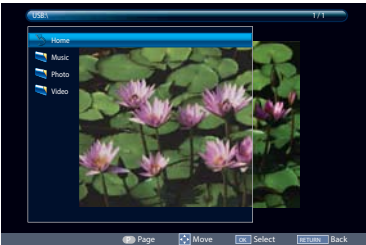



- 3 Press ◀ or ▶ to select  and press **OK**.

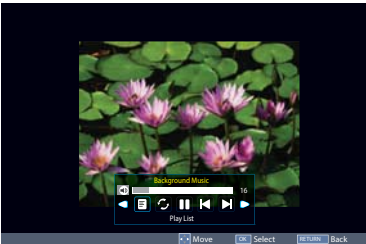


Press ▲ or ▼ to select music and press **OK** to play music.

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




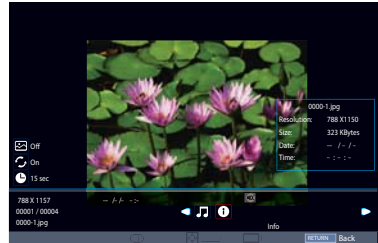
- 4 Press ◀ or ▶ to select  and press **OK** to select **One** or **FOLDER**.



## 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 **OK**.




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

# Enjoy Music through USB Port

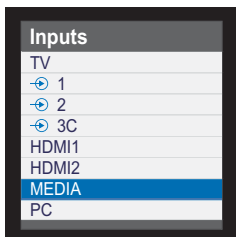
The MP3 Player allows you to playback music files from a USB storage device.




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

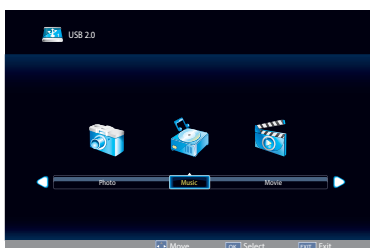
## Play Music Files






- 1** Insert a USB storage device and press  on the remote.

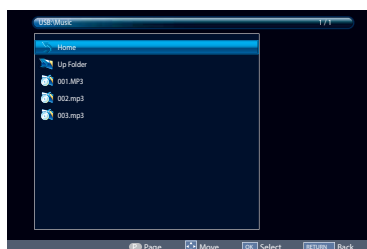
Use  or  to select **MEDIA** and press .



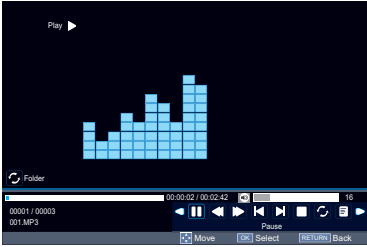
- 2** Press  or  to select **Music** and press  to enter the submenu.



- 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.

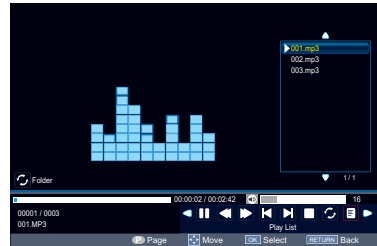
## Repeat Settings

- 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

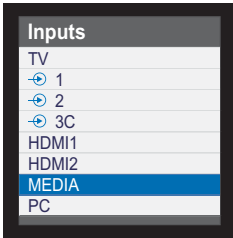
The Video Viewer allows you to playback video files from a USB storage device.




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

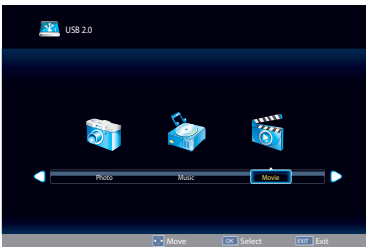
File Extension	Container	Video Codec	SPEC	Bit Rate (Mbit/sec)	Profile	Remark
dat, mpg, mpeg	MPEG	MPEG1 MPEG2	1080P@ 30fps	40	MPEG2: Main Profile@ High Level	
ts, trp, tp	MPEG2-TS H.264-TS	H.264 MPEG2	H.264: 1080P@50fps Others: 1080P@30fps	40	H.264: Main Profile and High Profile@Level 4.1 MPEG2: Main 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	
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	MP4: GMC is not supported
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

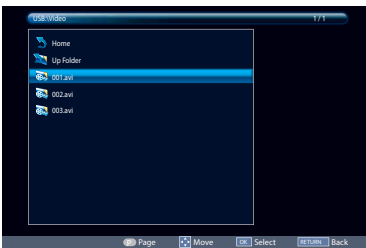
- 1 Insert a USB storage device and press  on the remote.  
Use  or  to select **MEDIA** and press .






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

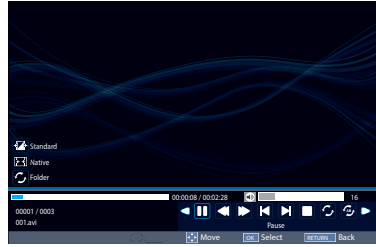


- 3 Press  or  to select the folder you wish to view and press  to enter.  
Press  or  to page up or down.



















- 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**.

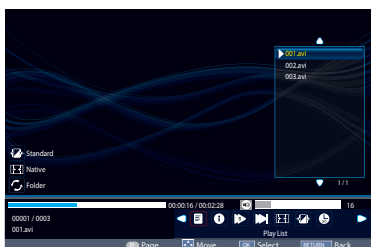
## Set

- 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

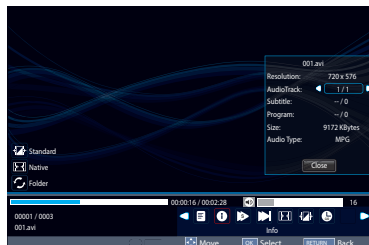
The feature allows you to view a video one frame at a time.

- 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**.

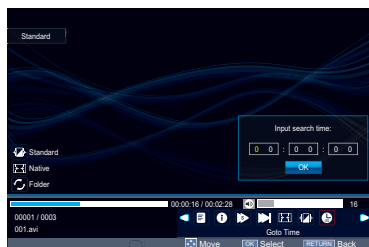
## Picture Mode

- 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

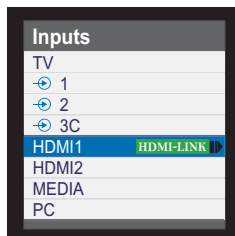
The **HDMI CEC** mode on the television's remote control allows the control of connected **HDMI CEC** equipment being watched.

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.

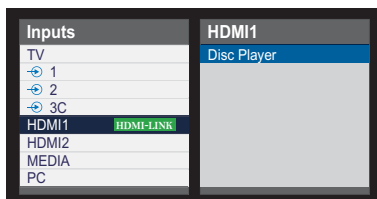
The available functions are dependent on the equipment connected. Not all the remote control keys may be available. Please refer to the operation manual for each piece of equipment connected.

## Select HDMI CEC Device

- 1 Press  $\leftarrow$ . 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  $\blacktriangle$  or  $\blacktriangledown$  to highlight the input source shown with the **HDMI-LINK** icon.



- 3 Press  $\blacktriangleright$ . and the device selection menu appears showing all connected **HDMI CEC** equipment.
- 4 Press  $\blacktriangle$  or  $\blacktriangledown$  to highlight the desired **HDMI CEC** equipment, and then press  $\odot$  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.

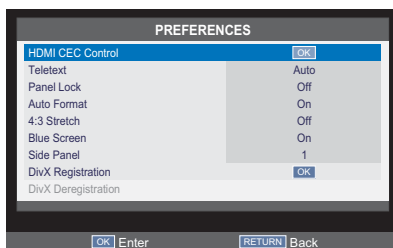
## Enable HDMI-LINK

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

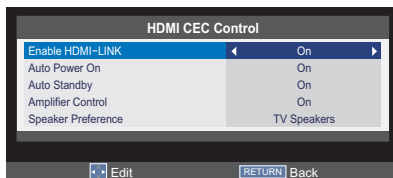
- 1 Press **MENU**. Press **◀** or **▶** to select **PREFERENCES** and press **OK** to enter the submenu.



- 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**.



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## Auto Power On

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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

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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

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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**.

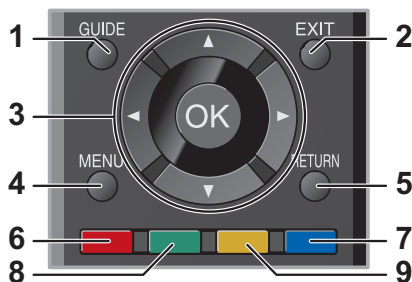
**NOTE:** This function is only available when the TV is connected to audio receivers that support CEC function.

## 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

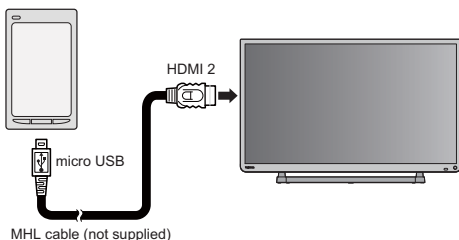
You can use the following functions by connecting between the TV HDMI 2 port and micro USB port of mobile phones etc. with a MHL cable.

- 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).

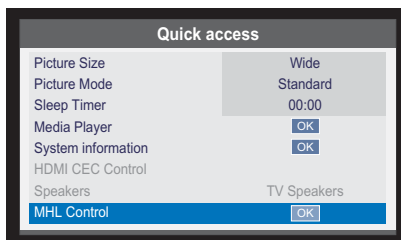


When you connect an MHL-compatible device to the HDMI 2 port on the TV with the MHL cable, charging starts automatically.

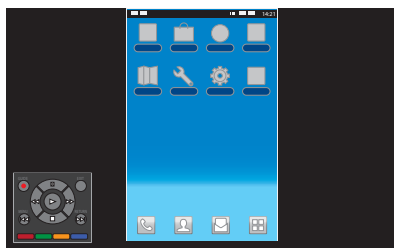
**NOTE:** Do not connect an MHL-compatible device to any port other than the HDMI 2 port.

## 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



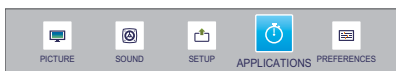
No	Item	Description
Not entry MHL Control (Remote Control)		
2	<b>EXIT</b>	Exit.
3	In contents menu:	
	▲	Up.
	▼	Down.
	◀	Left.
	▶	Right.
	Ⓞ	Select.
5	<b>RETURN</b>	Exit.
Entry MHL Control (Pass-Through Control Panel)		
1	<b>GUIDE</b>	Record.
2	<b>EXIT</b>	Close the <b>Pass-Through Control Panel</b> .
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.

## Preference Controls

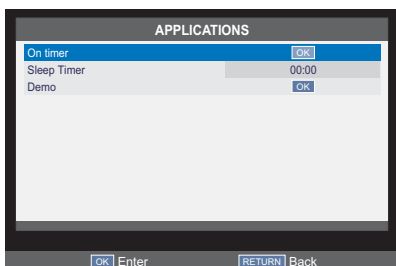
### On Timer

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.

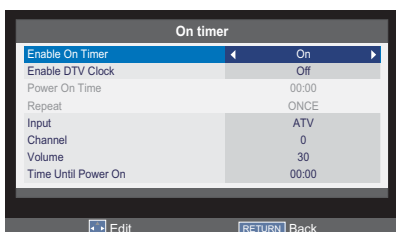
- 1 Press **MENU**. Press ◀ or ▶ to select **APPLICATIONS** and press **OK** to enter the submenu.



- 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.

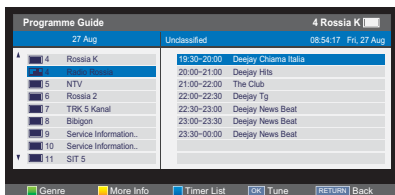
- 1 Press **MENU** and press ◀ or ▶ to select **APPLICATIONS**.
- 2 Press ▲ or ▼ to select **Sleep Timer** (Turn off the TV).
- 3 Press ◀ or ▶ to modify the time the TV should turn off, or use the number key pad on the remote to enter the time.

## 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.

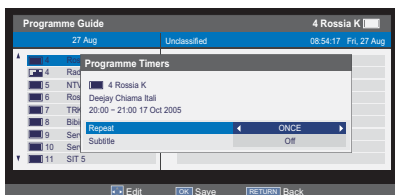
You must set the time correctly before using this function. All set timers are cleared when performing a new channel scan.

- 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.

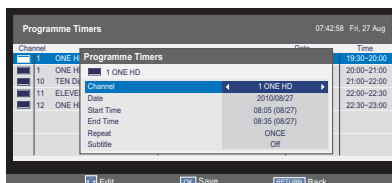
Press **OK** to save the settings.

- 4 Press the **REPEAT** 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 **REPEAT** 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.



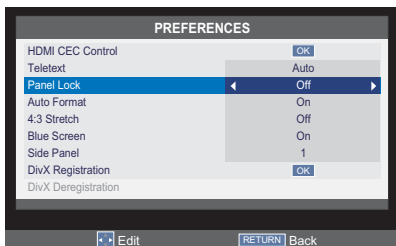
## Panel Lock

**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

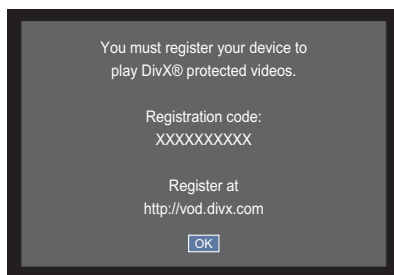
The **Side Panel** feature lightens or darkens the band each side of the screen when in 4:3 or 14:9 format. This helps prevent image retention of the band and can also make viewing in bright or dark conditions more comfortable.

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

## DivX Registration

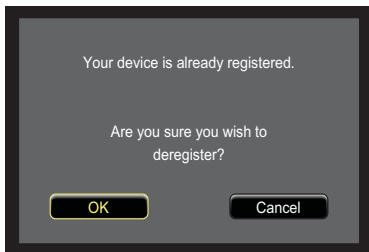
View the registration code that is required to play video files that are compatible with the DivX® VOD (Video On Demand) service on the TV. DivX® VOD is a video delivery service that lets you rent or purchase video content recorded in DivX® format. To play video files that are compatible with the DivX®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

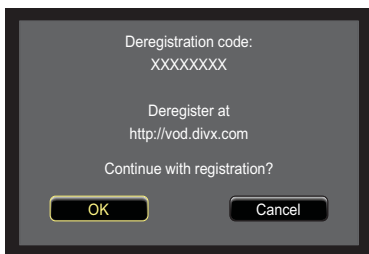


## DivX Deregistration

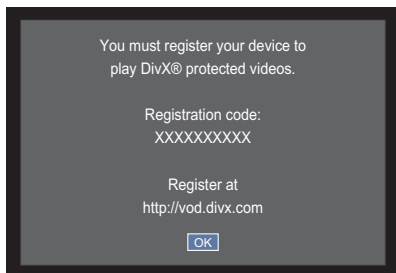
- 1 In the **PREFERENCES** menu, press ▲ or ▼ to select **DivX Deregistration** and press **OK**.
- 2 Press ◀ or ▶ to select **OK** to confirm or select **Cancel** to exit and press **OK**.



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

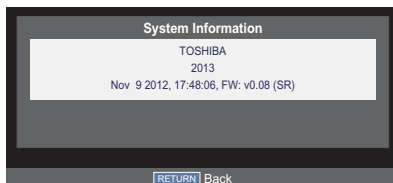


- 4 Press **OK** to exit.



## System Information

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



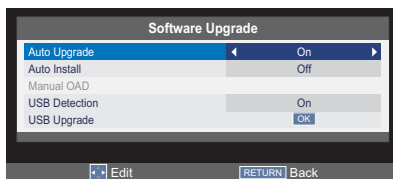
## Software Upgrade

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

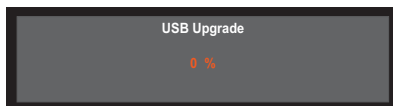


- 2 Press ▲ or ▼ to select **Software Upgrade** and press **OK** to enter the submenu.

- 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.



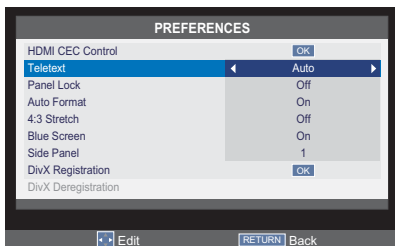
**NOTE:** Firmware upgrading is suggested to be done by the professional service personnel.

# 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.

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

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

### **🔍** Reveals concealed text:

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

### **🔒** Holds a wanted page:

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

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

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

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

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

Enter the page number then press **🔢**, 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 **🔢**, news flashes will be displayed as and when they are broadcast. Press **🔢** 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.

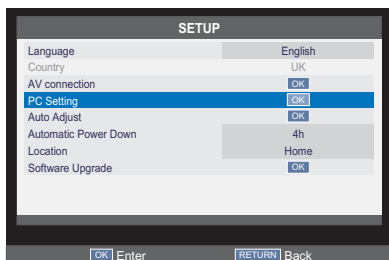
## Horizontal and Vertical Position

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.

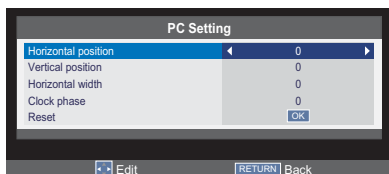
- 1 Press **MENU**. Press  $\blacktriangleleft$  or  $\blacktriangleright$  to select **SETUP** and press  $\odot$  to enter the submenu.



- 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.

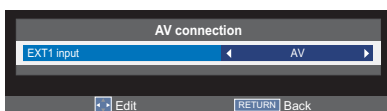
## Input Signal Selection

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?

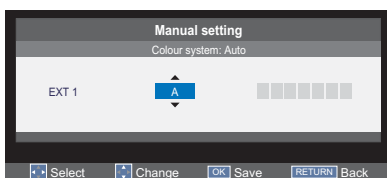
The colour is factory set to **Auto** to automatically display the best colour system.

**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?

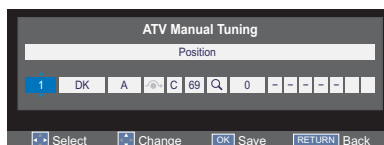
**A** Check all cable connections and that the volume has not been turned down or that the sound has not been muted.

**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?

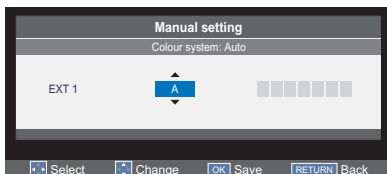
**A** Good performance of text depends on a strong broadcast signal. If the text is unreadable or garbled, check the aerial, satellite or cable connection. Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

**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.

## Receiving systems

DVB-T Broadcast systems/channels	Broadcast systems/channels	Broadcast systems/channels	Broadcast systems/channels
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		
Netherlands	VHF 05-12 UHF 21-69		
Greece	VHF 05-12 UHF 21-69		

## DVB-C Broadcast systems

### DVB-T2 Broadcast systems (L245\*D/W245\*D series only)

**Video Input** PAL, SECAM, NTSC 3.58/4.43

## External connections

EXT1	Input/Output	21-pin SCART	Auto, Mixed, RGB, Composite, S-Video / TV Out
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> RGB
RGB/PC	Input	D-sub	RGB
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>Visible Screen Size</b> (approx.)	32W	80cm
	32L	80cm
	40L	102cm

<b>Screen Resolution</b> (H x V pixels)	32W	1366 x 768
	32L	1920 x 1080
	40L	1920 x 1080

**Display** 16:9

**Sound Output** Main: 7W + 7W  
(at 10 % distortion)

<b>Power consumption</b> (approx.)	32W	64W
	32L	70W
	40L	98W

**Standby power consumption** (approx.) 0.3W

<b>Energy Efficiency Class</b>	32W	A+
	32L	A+
	40L	A+

<b>On-mode power consumption</b> <sup>1</sup> (approx.)	32W	31.4W
	32L	31.4W
	40L	47.8W

<b>Annual power consumption</b> <sup>2</sup> (approx.)	32W	45.8KWh/y
	32L	45.8KWh/y
	40L	69.8KWh/y

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

<sup>2</sup> Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used.

<b>Dimensions</b> (approx.)	32W	47.8cm (H)	73.5cm (W)	18.3cm (D)
	32L	47.8cm (H)	73.5cm (W)	18.3cm (D)
	40L	58.3cm (H)	92.5cm (W)	20.2cm (D)

(Height dimension includes foot stand)

<b>Weight</b> (approx.)	<b>TV with stand</b>	32W	6.0kg
		32L	6.0kg
		40L	9.0kg
<b>Gross weight</b>	<b>TV without stand</b>	32W	8.5kg
		32L	8.5kg
		40L	12.0kg
		32W	5.5kg
		32L	5.5kg
		40L	8.5kg

**Operating Conditions** Temperature: 5°C - 35°C (41°F - 94°F)  
Humidity: 20% - 80% (non-condensing)

**Supplied accessories** Remote control CT-90326  
2 batteries (AAA, IEC R03 1.5V)  
Screw (M4\*12 x 4)



# Consumer Products European Standard Warranty

## Warranty Coverage

### System Warranty

The Toshiba Limited Warranty is applicable to all "Systems" sold since 01.01.2013. Toshiba warrants any Toshiba TV, Blu-ray-/DVD-Player, Satellite Receiver as well as TV-Accessory ("System") first sold to an end-user to be free from defects in components and workmanship under normal use for the duration of the warranty period which is twelve (12) months (Warranty Period), provided that any claims under this Limited Warranty must be applied for within the Warranty Period. The warranty period commences on the original date of purchase. Your original purchase invoice (sales receipt), showing the date of purchase, model number and serial number of the System, is your proof of the date of purchase.

This warranty is only applicable in countries which are covered under this Limited Warranty for your product, i.e. any country where Toshiba or its Authorised Service Providers offer warranty service subject to the terms and conditions provided in this warranty. You will find the list of covered countries at the end of this booklet.

This warranty covers the costs of service parts and labour required to restore your System to full working order. Toshiba will, at its option, repair or replace any defective Systems or parts thereof covered by this warranty with new or factory refurbished parts or Systems that are equal to new products in performance. A System or part that is repaired or replaced under this Limited Warranty shall be covered for the remainder of the original warranty period applying to the System or part, or for three months (3), whichever is longer. All exchanged parts and Systems replaced under this warranty will become the property of Toshiba. Further claims against Toshiba are expressly excluded.

This Limited Warranty is a commercial warranty granted by Toshiba and it does not affect your statutory rights, which may provide for additional rights available to consumers.

### Customer Replaceable Unit

Toshiba may service Customer Replaceable Units such as TV stands or remote control to end-user by shipment. Upon receipt by the end-user of the replacement part, the original part becomes the property of Toshiba. If requested by Toshiba, the original part should be returned to Toshiba at Toshiba's expense. In the event that the original part is not received by Toshiba within fifteen (15) working days following end-user's

receipt of the shipment instructions, end-user will be charged the retail value of the replacement part.

## Warranty Exclusions and Disclaimer

The Limited Warranty with respect to your System is subject to the following exclusions and limitations:

### Exclusions

This Limited Warranty does not extend to:

1. Any System not manufactured by or for Toshiba, or sold to an end-user in a country not covered under this warranty.
2. Any System that has been damaged or rendered defective (a) as a result of use of the System other than for its normal intended use, failure to use the System in accordance with the User's Manual or other misuse, abuse, or negligence to the System; (b) by the use of parts not manufactured or sold by Toshiba; (c) by modification of the System; (d) as a result of service by any-one other than Toshiba or a Toshiba Authorised Service Provider; (e) by improper transportation or packing when returning the System to Toshiba or a Toshiba Authorised Service Provider; or (f) by improper installation of third party products (e. g. memory expansion cards).
3. Any System or parts thereof from which labels or serial numbers have been modified or made illegible.
4. Regular maintenance, inspection, fair wear and tear of consumable parts, e. g. remote control.
5. Cosmetic damages such as scratches and dents, scratched, faded or discolored frames, covers and plastics.
6. Commercial or professional use of the System.
7. Environmental damages and/or defects resulting from smoke, dust, carbon black or other external influences.
8. Defects due to force majeure as e.g. lightning, water, fire, incorrect voltage, insufficient ventilation.

If Toshiba's operating and maintenance instructions are not complied with, replacement parts or materials are used which do not correspond to the original specifications, or interventions are carried out through unqualified personnel or if the System shows any indication of misuse, overuse, negligent handling you will have to furnish proof that the defect was not caused by one of these circumstances.

If the system is not entitled to this Limited Warranty due to one of the above mentioned reasons, Toshiba can still offer a repair, if requested by the customer. Please note that in this case Toshiba may charge the end-user for parts, labour and expenses. Furthermore Toshiba reserves the right to charge the end-user for the preparation of the cost estimate. Moreover, Toshiba may charge the costs incurred for the inspection of the System in cases where a damage or defect under this Limited Warranty has been negligently alleged which actually did not exist.

Toshiba is not liable for any transport/delivery/ insurance costs, import duties, taxes, licensing fees and any charges from telephone/fax communication as consequence of the failure of the System.

### Disclaimer of Warranty

Except for the express warranty provided and to the extent permitted by applicable law, Toshiba, its Authorised Re-sellers or Authorised Service Providers do not issue any warranty or guarantee for your System. Toshiba expressly excludes any other liability, whether express or implied, to the fullest extent allowed by the law. In particular, but without limit to the generality of the exclusion, any implied terms as to merchantability, satisfactory quality, fitness for a particular purpose and/or non-infringement of third party rights are excluded whether in contract or tort. Any implied warranties that may be imposed by law are limited in duration to the term of the express limited warranty given by Toshiba to the extent permitted by applicable law. To the maximum extent permitted by applicable law, in no event shall Toshiba or its supplier be liable for (1) damage to, or loss or corruption of records, data or removable storage media, or (2) any damages whatsoever (including direct or indirect damages, loss of business profits, lost savings or other special, incidental, exemplary or consequential damages whether for breach of warranty, contract, strict liability, tort or otherwise) arising out of or resulting from the use of or inability to use the products and/or the enclosed written materials, even if Toshiba, its supplier, an authorised Toshiba representative, service provider or dealer have been advised of the possibility of such damages or of any claim by any third party. Any liability of Toshiba or its supplier which is not excluded shall be limited to the purchase price of the System.

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## Obtaining Warranty Service

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Your Toshiba Limited Warranty includes a Carry-in or Send-in warranty service. In some countries, a Pick-up & Return warranty service might also be provided. To find out about the local coverage, please contact Toshiba or your Authorised Service Provider.

The warranty service will be subject to the following terms and conditions:

1. Repair service is available for Systems purchased and located within a country where Toshiba or its Authorised Service Providers offer warranty service subject to the terms and conditions provided in this Limited Warranty. Claims under this Limited Warranty will be honoured only if made within the warranty period.
2. Refer to the list with contact information for Toshiba and its Authorised Service Providers in the respective countries at the end of this booklet.

3. Before contacting Toshiba, please:
  - Check if your System is connected to mains and switched on correctly;

Reset the System to its original configuration by removing accessories and external connections; unplug any remote storage devices or other peripherals;

- Consult the User's Manual for important tips on how to operate and troubleshoot your System;
  - Note down System name, model number, serial number, hardware and software configuration and a description of the problem (e. g. error messages that appear on the screen);
4. Call the Toshiba Support Centre in the country where you are located in. Toshiba will attempt to resolve warranty issues over the telephone and may require your assistance in performing routine diagnostic procedures in connection with this call. Should the Toshiba Support Centre isolate hardware malfunctions on your system, you will be provided with an identification number and service instructions by the most convenient means (e. g. fax, email, voice).
  5. If your System is eligible for Pick-up & Return warranty service, Toshiba will arrange pick up of the defective unit from your location, repair it and return it back to your location. Toshiba will incur all repair, logistics and insurance costs in this process.
  6. Under the terms of Carry-in or Send-in warranty service, you will be required to deliver your Toshiba System to a Toshiba Authorised Service

Provider for warranty repair and arrange for its collection on completion of repair. You must prepay any shipping charges, taxes, or duties associated with transportation of the System to and from the Toshiba Authorised Service Provider. In addition, you are responsible for insuring the System both for delivery and collection as neither Toshiba nor the company offering warranty service on Toshiba's behalf, have any liability for damage or loss in transit.

7. Secure proper packing of the unit if you send it in or in case of pick up through Toshiba. Damages caused by improper packing by the end user will not be covered by Toshiba.

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## Registration

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Please register your warranty now at:

[www.toshiba-europe.com/registration](http://www.toshiba-europe.com/registration)

Registration will help us to provide you with speedy service should you need to have your product repaired under warranty and it enables you to receive news about essential updates, details about new products and special offers to help you get the most from your Toshiba product.

The latest terms and conditions of the Toshiba Limited Warranty can be found at our website:

[www.toshiba-europe.com/services](http://www.toshiba-europe.com/services)

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## Geographic Coverage

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Below you will find a list of countries which are covered under the Toshiba Limited Warranty for your products. You can find the contact details of our Toshiba Support Center or Authorised Service Providers at:

[www.toshiba-europe.com/asp-locator](http://www.toshiba-europe.com/asp-locator)

Warrantor of the Toshiba Limited Warranty in the respective countries are the following Toshiba entities:

### **Toshiba Europe GmbH, Germany**

Albania, Austria, Bosnia & Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Germany, Greece, Hungary, Kosovo, Latvia, Lithuania, Macedonia, Malta, Montenegro, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland


### **Toshiba Information Systems (UK) Ltd., United Kingdom**


Denmark, Finland, Iceland, Ireland, Norway, Sweden, United Kingdom


### **Toshiba Systemes (France) S.A.S., France**

France Métropolitaine, Italy

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### REACH information

The European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007, with phased deadlines to 2018.

Toshiba will meet all REACH requirements and is committed to provide our customers with information about the presence in our articles of substances included on the candidate list according to REACH regulation.

Please consult the following website [www.toshiba.eu/reach](http://www.toshiba.eu/reach) for information about the presence in our articles of substances included on the candidate list according to REACH in a concentration above 0.1 % weight by weight.

**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 visit our website ([www.toshiba.eu/recycling](http://www.toshiba.eu/recycling)) or 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 visit our website ([www.toshiba.eu/recycling](http://www.toshiba.eu/recycling)) or 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, 23 Davy Road, Plymouth, PL6 8BY, UK

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 Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC is also applicable.

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

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