TOSHIBA

OPERATING INSTRUCTIONS

24W1753DB

COLOUR TELEVISION WITH REMOTE CONTROL
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Safety Information

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

In extreme weather (storms, lightning) and long inactivity periods (going on holiday) disconnect the TV set from the mains.
The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable. If the TV set is not disconnected electrically from the mains, the device will still draw power for all situations even if the TV is in standby mode or switched off.

Note: Follow the on screen instructions for operating the related features.

IMPORTANT - Please read these instructions fully before installing or operating

WARNING: This device is intended to be used by persons (including children) who are capable / experienced of operating such a device unsupervised, unless they have been given supervision or instruction concerning the use of the device by a person responsible for their safety.

• Use this TV set at an altitude of less than 2000 meters above the sea level, in dry locations and in regions with moderate or tropical climates.

• The TV set is intended for household and similar general use but may also be used in public places.

• For ventilation purposes, leave at least 5cm of free space around the TV.

• The ventilation should not be impeded by covering or blocking the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

• The power cord plug should be easily accessible. Do not place the TV, furniture, etc. on the power cord. A damaged power cord/plug can cause fire or give you an electric shock. Handle the power cord by the plug, do not unplug the TV by pulling the power cord. Never touch the power cord/plug with wet hands as this could cause a short circuit or electric shock. Never make a knot in the power cord or tie it with other cords. When damaged it must be replaced, this should only be done by qualified personnel.

• Do not expose the TV to dripping or splashing of liquids and do not place objects filled with liquids, such as vases, cups, etc. on or over the TV (e.g., on shelves above the unit).

• Do not expose the TV to direct sunlight or do not place open flames such as lit candles on the top of or near the TV.

• Do not place any heat sources such as electric heaters, radiators, etc. near the TV set.

• Do not place the TV on the floor and inclined surfaces.

• To avoid danger of suffocation, keep plastic bags out of the reach of the babies, children and domestic animals.

• Carefully attach the stand to the TV. If the stand is provided with screws, tighten the screws firmly to prevent the TV from tilting. Do not over tighten the screws and mount the stand rubbers properly.

• Do not dispose of the batteries in fire or with hazardous or flammable materials.

Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

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.

Caution | Serious injury or death risk
Risk of electric shock | Dangerous voltage risk
Maintenance | Important maintenance component

Mains Supply
The set should be operated only from a 220-240 VAC 50 Hz outlet. Make sure the TV or its stand are not placed on the power cord. 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.
Markings on the Product

The following symbols are used on the product as a marker for restrictions and precautions and safety instructions. Each explanation shall be considered where the product bears related marking only. Note such information for security reasons.

Class II Equipment: This appliance is designed in such a way that it does not require a safety connection to electrical earth.

Class II Equipment With Functional Earthing: This appliance is designed in such a way that it does not require a safety connection to electrical earth, the earth connection is used for functional purposes.

Protective Earth Connection: The marked terminal is intended for connection of the protective earth conductor associated with the supply wiring.

Hazardous Live Terminal: The marked terminal(s) is/are hazardous live under normal operating conditions.

Caution, See Operating Instructions: The marked area(s) contain(s) user replaceable coin or button cell batteries.

Class 1 Laser Product: This product contains Class 1 laser source that is safe under reasonably foreseeable conditions of operation.

WARNING

Never place a television set in unstable or inclined locations. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as;

• Using cabinets or stands recommended by the manufacturer of the television set.
• Only using furniture that can safely support the television set.
• Ensuring the television set is not overhanging the edge of the supporting furniture.
• Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
• Not standing the television set on cloth or other materials placed between the television set or its controls. If your existing television set is being retained and relocated, the same considerations as above should be applied.

WALL MOUNTING WARNINGS

• Read the instructions before mounting your TV on the wall.
• The wall mount kit is optional. You can obtain from your local dealer, if not supplied with your TV.
• Do not install the TV on a ceiling or on an inclined wall.
• Use the specified wall mounting screws and other accessories.
• Tighten the wall mounting screws firmly to prevent the TV from fall. Do not over-tighten the screws.

WARNING

Do not ingest the battery, Chemical Burn Hazard
This product or the accessories supplied with the product may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children.
If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
WARNING
Apparatus connected to the protective earthing of the building installation through the MAINS connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)

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. 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.

Specification is subject to change without notice.
Environmental Information

This television is designed to be environment friendly. To reduce energy consumption, you can follow these steps:

If you set the **Energy Saving** to **Minimum, Medium, Maximum** or **Auto** the TV will reduce the energy consumption accordingly. If you like to set the **Backlight** to a fixed value set as **Custom** and adjust the **Backlight** (located under the **Energy Saving** setting) manually using Left or Right buttons on the remote. Set as **Off** to turn this setting off.

*Note: Available Energy Saving options may differ depending on the selected Mode in the System>Picture menu.*

The **Energy Saving** settings can be found in the **System>Picture** menu. Note that some picture settings will be unavailable to be changed.

If pressed **Right** button while **Auto** option is selected or **Left** button while **Custom** option is selected, “**Screen will be off in 15 seconds.**” message will be displayed on the screen. Select **Proceed** and press OK to turn the screen off immediately. If you don’t press any button, the screen will be off in 15 seconds. Press any button on the remote or on the TV to turn the screen on again.

*Note: Screen Off option is not available if the Mode is set to Game.*

When the TV is not in use, please switch off or disconnect the TV from the mains plug. This will also reduce energy consumption.

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**Disposal...**

The following information is only for EU-member states:

**Disposal of products**

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

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

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

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

**Disposal of batteries and/or accumulators**

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

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the European Battery Directive, then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.
**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-tv.com 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.

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**EU Conformity Statement**

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

Responsible for CE-Marking is Vestel UK, Langley, Berkshire, SL3 6EZ.

This product is labeled with the CE Mark in accordance with the related European Directives, notably 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.

Hereby, VESTEL Elektronik Sanayi ve Ticaret A.Ş., declares that the radio equipment type TV is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: doc.vosshub.com

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This equipment corresponds to requirements of the Technical Regulation on limitation of usage of certain dangerous substances in electrical and electronic equipment.
Features

- Remote controlled colour TV
- Fully integrated digital terrestrial/cable TV (DVB-T-T2/C)
- HDMI inputs to connect other devices with HDMI sockets
- USB input
- OSD menu system
- Scart socket for external devices (such as DVD Players, PVR, video games, etc.)
- Stereo sound system
- Teletext
- Headphone connection
- Automatic programming system
- Manual tuning
- Automatic power down after up to eight hours.
- Sleep timer
- Child lock
- Automatic sound mute when no transmission.
- NTSC playback
- AVL (Automatic Volume Limiting)
- PLL (Frequency Search)
- PC input
- Game Mode (Optional)
- Ethernet (LAN) for interactive services available on digital channels
- Picture off function
- Programme recording
- Programme timeshifting

Accessories Included

- Remote Control
- Batteries: 2 x AAA
- Instruction Book

Standby Notifications

If the TV does not receive any input signal (e.g. from an aerial or HDMI source) for 3 minutes, it will go into standby. When you next switch-on, the following message will be displayed: “TV switched to stand-by mode automatically because there was no signal for a long time.” Press OK to continue.

TV Control Switch & Operation

1. Up direction
2. Down direction
3. Volume / Info / Sources List selection and Standby-On switch

The Control button allows you to control the Volume/ Programme/Source and Standby-On functions of the TV.

To change volume: Increase the volume by pushing the button up. Decrease the volume by pushing the button down.

To change channel: Press the middle of the button in, the information banner will appear on the screen. Scroll through the stored channels by pushing the button up or down.

To change source: Press the middle of the button in twice(for the second time in total), the source list will appear on the screen. Scroll through the available sources by pushing the button up or down.

To turn the TV off: Press the middle of the button in and hold it down for a few seconds, the TV will turn into standby mode.

To turn on the TV: Press the middle of the button in, the TV will turn on.

Notes:

- If you turn the TV off, this cycle starts again beginning with the volume setting.
- Main menu OSD cannot be displayed via control buttons.
Operation with the Remote Control

Press **Menu** button on your remote control to display main menu screen. Use the directional buttons to select a menu tab and press **OK** to enter. Use the directional buttons again to select or set an item. Press **Return/Back** button or **Menu** button to quit a menu screen.

Input Selection

Once you have connected external systems to your TV, you can switch to different input sources. Press **Source** button on your remote control consecutively to select the different sources.

Changing Channels and Volume

You can change the channel and adjust the volume by using the **Volume +/-** and **Programme +/-** buttons on the remote.

Inserting the Batteries into the Remote

Remove the back cover to reveal the battery compartment. Insert two size **AAA** batteries. Make sure the (+) and (-) signs match (observe correct polarity). Do not mix old and new batteries. Replace only with same or equivalent type. Place the cover back on.

Connect Power

**IMPORTANT**: The TV set is designed to operate on a **220-240V AC, 50 Hz** supply. After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains. Plug the power cable to the mains socket outlet.

Antenna Connection

Connect the aerial or cable TV plug to the **AERIAL INPUT (ANT)** socket located on the back of the TV.

If you want to connect a device to the TV, make sure that both the TV and the device are turned off before making any connection. After the connection is done, you can turn on the units and use them.

License Notification

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

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[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.

### Specification

<table>
<thead>
<tr>
<th><strong>TV Broadcasting</strong></th>
<th>PAL B/G D/K I/I'</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Receiving Channels</strong></td>
<td>VHF (BAND I/III) - UHF (BAND U) - HYPERBAND</td>
</tr>
<tr>
<td><strong>Digital Reception</strong></td>
<td>Fully integrated digital terrestrial-cable TV (DVB-T-C) (DVB-T2 compliant)</td>
</tr>
<tr>
<td><strong>Number of Preset Channels</strong></td>
<td>1,000</td>
</tr>
<tr>
<td><strong>Channel Indicator</strong></td>
<td>On Screen Display</td>
</tr>
<tr>
<td><strong>RF Aerial Input</strong></td>
<td>75 Ohm (unbalanced)</td>
</tr>
<tr>
<td><strong>Operating Voltage</strong></td>
<td>220-240V AC, 50Hz.</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>Dolby Audio™ (supporting Dolby Digital Plus™) DTS TruSurround DTS 2.0+Digital Out DTS-HD</td>
</tr>
<tr>
<td><strong>Audio Output Power (WRMS.) (10% THD)</strong></td>
<td>2 x 2.5</td>
</tr>
<tr>
<td><strong>Power Consumption (W)</strong></td>
<td>45 W</td>
</tr>
<tr>
<td><strong>Weight (Kg)</strong></td>
<td>3.3</td>
</tr>
<tr>
<td><strong>TV Dimensions DxDxLxH (with foot) (mm)</strong></td>
<td>152 x 554 x 369</td>
</tr>
<tr>
<td><strong>TV Dimensions DxDxLxH (without foot) (mm)</strong></td>
<td>68/85 x 554 x 336</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>16:9 24&quot;</td>
</tr>
<tr>
<td><strong>Operation temperature and operation humidity</strong></td>
<td>0ºC up to 40ºC, 85% humidity max</td>
</tr>
</tbody>
</table>
Remote Control

1. **Standby**: Switches On / Off the TV
2. **Numeric buttons**: Switches the channel, enters a number or a letter in the text box on the screen.
3. **TV**: Displays channel list / Switches to TV Source
4. **Mute**: Completely turns off the volume of the TV
5. **Volume +/-**:
6. **Menu**: Displays TV menu
7. **Navigation buttons**: Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left
8. **OK**: Confirms user selections, holds the page (in TXT mode), views channel list (DTV mode)
9. **Back/Return**: Returns to previous screen, opens index page (in TXT mode)
10. **Media browser**: Opens the media browsing screen
11. **Quick Menu**: Displays a list of menus for quick access
12. **My button 1 (*)**
13. **Coloured Buttons**: Follow the on-screen instructions for coloured button functions
14. **Language**: Switches between sound modes (analogue TV), displays and changes audio/subtitle language (digital TV, where available)
15. **Rapid reverse**: Moves frames backwards in media such as movies
16. **Record**: Records programmes
17. **Pause**: Pauses the media being played, starts timeshift recording
18. **Play**: Starts to play selected media
19. **Subtitles**: Turns subtitles on and off (where available)
20. **Stop**: Stops the media being played
21. **Rapid advance**: Moves frames forward in media such as movies
22. **Screen**: Changes the aspect ratio of the screen
23. **My button 2 (*)**
24. **Text**: Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
25. **EPG (Electronic programme guide)**: Displays the electronic programme guide
26. **Exit**: Closes and exits from displayed menus or returns to previous screen
27. **No function**
28. **Info**: Displays information about on-screen content, shows hidden information (reveal - in TXT mode)
29. **Programme +/-**
30. **Swap**: Quickly cycles between previous and current channels or sources
31. **Source**: Shows all available broadcast and content sources

(*) **MY BUTTON 1 & MY BUTTON 2**:
These buttons may have default functions depending on the model. However you can set a special function to these buttons by pressing on them for five seconds when on a desired source or channel. A confirmation message will be displayed on the screen. Now the selected MY BUTTON is associated with the selected function.

Note that if you perform First Time Installation, MY BUTTON 1&2 will return to their default function.
### Connections

<table>
<thead>
<tr>
<th>Connector</th>
<th>Type</th>
<th>Cables</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Scart Connection (back)</td>
<td><img src="image" alt="Scart Cable" /></td>
<td><img src="image" alt="Scart Device" /></td>
</tr>
<tr>
<td></td>
<td>VGA Connection (back)</td>
<td><img src="image" alt="VGA Cable" /></td>
<td><img src="image" alt="VGA Device" /></td>
</tr>
<tr>
<td>SIDE AV</td>
<td>PC/YPbPr Audio Connection (side)</td>
<td><img src="image" alt="YPbPr/PC Audio Cable" /></td>
<td><img src="image" alt="YPbPr/PC Audio Cable" /></td>
</tr>
<tr>
<td></td>
<td>HDMI Connection (back)</td>
<td><img src="image" alt="HDMI Cable" /></td>
<td><img src="image" alt="HDMI Device" /></td>
</tr>
<tr>
<td>SPDIF</td>
<td>SPDIF (Coaxial Out) Connection (back)</td>
<td><img src="image" alt="SPDIF Cable" /></td>
<td><img src="image" alt="SPDIF Device" /></td>
</tr>
<tr>
<td>SIDE AV</td>
<td>Side AV (Audio/Video) Connection (side)</td>
<td><img src="image" alt="AV Cable" /></td>
<td><img src="image" alt="AV Device" /></td>
</tr>
<tr>
<td>HEADPHONE</td>
<td>Headphone Connection (side)</td>
<td><img src="image" alt="Headphone Cable" /></td>
<td><img src="image" alt="Headphone Device" /></td>
</tr>
<tr>
<td>PC to YPbPr</td>
<td>YPbPr Video Connection (back)</td>
<td><img src="image" alt="PC to YPbPr Connection Cable" /></td>
<td><img src="image" alt="PC to YPbPr Connection Cable" /></td>
</tr>
<tr>
<td>USB</td>
<td>USB Connection (side)</td>
<td><img src="image" alt="USB Cable" /></td>
<td><img src="image" alt="USB Device" /></td>
</tr>
<tr>
<td>CI</td>
<td>CI Connection (side)</td>
<td><img src="image" alt="CI Cable" /></td>
<td><img src="image" alt="CI Device" /></td>
</tr>
<tr>
<td>LAN</td>
<td>Ethernet Connection (back)</td>
<td><img src="image" alt="LAN Cable" /></td>
<td><img src="image" alt="LAN Device" /></td>
</tr>
</tbody>
</table>

**NOTE:** When connecting a device via the YPbPr or the Side AV input, you must use a connection adapter cable. See the illustrations on the left side. You can use YPbPr to VGA cable to enable YPbPr signal via VGA input. You cannot use VGA and YPbPr at the same time. To enable PC/YPbPr audio, you will need to use the Side AV input with a YPbPr/PC audio cable for audio connection, using the Side AV connection cable’s RED and WHITE inputs. If an external device is connected via the SCART socket, the TV may automatically switch to EXT1 mode. When receiving DTV channels (Mpeg4 H.264) or while in Media Browser mode, output will not be available via the scart socket. When using the wall mounting kit (available from a third party in the market, if not supplied), we recommend that you plug all your cables into the back of the TV before mounting on the wall. Insert or remove the CI module only when the TV is SWITCHED OFF. You should refer to the module instruction manual for details of the settings. The/Each USB input of your TV supports devices up to 500mA. Connecting devices that have current value above 500mA may damage your TV. When connecting equipment using a HDMI cable to your TV, to guarantee sufficient immunity against parasitic frequency radiation, you have to use a high speed shielded (high grade) HDMI cable with ferrites.

If you want to connect a device to the TV, make sure that both the TV and the device are turned off before making any connection. After the connection is done, you can turn on the units and use them.
Switching On/Off

To Switch the TV On

Connect the power cord to a power source such as a wall socket (220-240V AC, 50 Hz).

To switch on the TV from standby mode either:
• Press the Standby button, Programme +/- or a numeric button on the remote control.
• Press the side function switch on the TV until the TV comes on from standby.

To Switch the TV Off

Press the Standby button on the remote control or press the side function switch on the TV until the TV switches into standby mode.

To power down the TV completely, unplug the power cord from the mains socket.

Note: When the TV is switched into standby mode, the standby LED can blink to indicate that features such as Standby Search, Over Air Download or Timer is active. The LED can also blink when you switch on the TV from standby mode.

First Time Installation

When turned on for the first time, the language selection screen is displayed. Select the desired language and press OK.

On the next screen, set your preferences using the directional buttons.

Note: Depending on the Country selection you may be asked to set and confirm a PIN at this point. The selected PIN cannot be 0000. You have to enter it if you are asked to enter a PIN for any menu operation later.

About Selecting Broadcast Type

Digital Aerial: If Digital Aerial broadcast search option is turned on, the TV will search for digital terrestrial broadcasts after other initial settings are completed.

Digital Cable: If Digital Cable broadcast search option is turned on, the TV will search for digital cable broadcasts after other initial settings are completed. According to your other preferences a confirmation message may be displayed before starting to search. Select YES and press OK to proceed. To cancel operation, select NO and press OK. You can select Network or set values such as Frequency, Network ID and Search Step. When finished, press OK button.

Note: Searching duration will change depending on the selected Search Step.

Analogue: If Analogue broadcast search option is turned on, the TV will search for analogue broadcasts after other initial settings are completed.

Additionally you can set a broadcast type as your favourite one. Priority will be given to the selected broadcast type during the search process and the channels of it will be listed on the top of the Channel List. When finished, press OK to continue.

You can activate Store Mode option at this point. This option will configure your TV’s settings for store environment and depending on the TV model being used, the supported features of it may be displayed on the top of the screen as an info banner. This option is intended only for store use. It is recommended to select Home Mode for home use. This option will be available in System>Settings>More menu and can be turned off/on later.

Press OK button on the remote control to continue. After the initial settings are completed TV will start to search for available broadcasts of the selected broadcast types.

After all the available stations are stored, scan results will be displayed. Press OK to continue. The Edit Channel List menu will be displayed next. You can edit the channel list according to your preferences or press the Menu button to quit and watch TV.

While the search continues a message may appear, asking whether you want to sort channels according to the LCN(*). Select Yes and press OK to confirm.

(*) LCN is the Logical Channel Number system that organizes available broadcasts in accordance with a recognizable channel number sequence (if available).

Note: Do not turn off the TV while initializing first time installation. Note that, some options may not be available depending on the country selection.

Media Playback via USB Input

You can connect 2.5" and 3.5" inch (hdd with external power supply) external hard disk drives or USB memory stick to your TV by using the USB inputs of the TV.

IMPORTANT! Back up the files on your storage devices before connecting them to the TV. Manufacturer will not be responsible for any file damage or data loss. Certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this TV. The TV supports FAT32 and NTFS disk
formatting but recording will not be available with NTFS formatted disks.

While formatting USB hard drives which have more than 1TB (Tera Byte) storage space you may experience some problems in the formatting process.

Wait a little while before each plugging and unplugging as the player may still be reading files. Failure to do so may cause physical damage to the USB player and the USB device itself. Do not pull out your drive while playing a file.

You can use USB hubs with your TV’s USB inputs. External power supplied USB hubs are recommended in such a case.

It is recommended to use the TV’s USB input(s) directly, if you are going to connect a USB hard disk.

**Note:** When viewing image files the Media Browser menu can only display 1000 image files stored on the connected USB device.

### Recording a Programme

**IMPORTANT:** When using a new USB hard disk drive, it is recommended that you first format the disk using your TV’s “Format Disk” option in the Media Browser>Settings>Recording Settings menu.

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

To use recording your USB drive should have 2 GB free space and be USB 2.0 compatible. If the USB drive is not compatible an error message will be displayed.

To record long duration programmes such as movies, it is recommended to use USB Hard disk drives (HDD’s).

Recorded programmes are saved into the connected USB disk. If desired, you can store/copy recordings onto a computer; however, these files will not be available to be played on a computer. You can play the recordings only via your TV.

Lip Sync delay may occur during the timeshifting. Radio record is supported. The TV can record programmes up to ten hours.

Recorded programmes are split into 4GB partitions.

If the writing speed of the connected USB disk is not sufficient, the recording may fail and the timeshifting feature may not be available.

It is recommended to use USB hard disk drives for recording HD programmes.

Do not pull out the USB/HDD during a recording. This may harm the connected USB/HDD.

Multipartition support is available. A maximum of two different partitions are supported. The first partition of the USB disk is used for USB Recording ready features. It also must be formatted as the primary partition to be used for the USB Recording ready features.

Some stream packets may not be recorded because of signal problems, as a result sometimes videos may freeze during playback.

Record, Play, Pause, Display (for playlist dialogue) keys can not be used when teletext is on. If a recording starts from timer when teletext is on, teletext is automatically turned off. Also teletext usage is disabled when there is an ongoing recording or playback.

### Timeshift Recording

Press **Pause** button while watching a broadcast to activate timeshifting mode. In timeshifting mode, the programme is paused and simultaneously recorded to the connected USB disk.

Press **Play** button again to resume the paused programme from where you stopped. Press the **Stop** button to stop timeshift recording and return to the live broadcast.

Timeshift cannot be used while in radio mode.

You can use the timeshift fast reverse feature after resuming normal playback or fast forward option.

### Instant Recording

Press **Record** button to start recording an event instantly while watching a programme. You can press **Record** button on the remote control again to record the next event after selecting the next programme from within the EPG. Press **Stop** button to cancel instant recording.

You can not switch broadcasts or view the Media Browser during the recording mode. While recording a programme or during the timeshifting, a warning message appears on the screen if your USB device speed is not sufficient.
Watching Recorded Programmes

Select the Recordings from the Media Browser menu. Select a recorded item from the list (if previously recorded). Press the OK button to view the Play Options. Select an option then press OK button.

Press the Stop button to stop a playback and return to the Recordings.

Slow Forward

If you press Pause button while watching recorded programmes, the slow forward feature will be available. You can use Rapid advance button to slow forward. Pressing Rapid advance button consecutively will change slow forwarding speed.

Note: Viewing main menu and menu items will not be available during the playback.

Recording Configuration

Select the Recording Settings item in the Media Browser>Settings menu to configure the recording settings.

Format Disk: You can use the Format Disk feature for formatting the connected USB disk. Your PIN is required to use the Format Disk feature.

Note: Default PIN can be set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the First Time Installation use the PIN that you have defined.

IMPORTANT: Formatting your USB drive will erase ALL the data on it and it's file system will be converted to FAT32. In most cases operation errors will be fixed after a format but you will lose ALL your data.

If “USB disk writing speed too slow to record” message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

Media Browser Menu

You can play photo, music, and movie files stored on a USB disk by connecting it to your TV. Connect a USB disk to one of the USB inputs located on the side of the TV. Pressing the Menu button while in the Media Browser mode will access the Picture, Sound and Settings menu options. Pressing the Menu button again will exit from this screen. You can set your Media

Browser preferences by using the Settings Menu.

<table>
<thead>
<tr>
<th>Loop/Shuffle Mode Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start playback with the Play button and activate</td>
</tr>
<tr>
<td>Start playback with the OK button and activate</td>
</tr>
<tr>
<td>Start playback with the Play button and activate</td>
</tr>
<tr>
<td>Start playback with the Play button and activate</td>
</tr>
</tbody>
</table>

CEC and CEC RC Passthrough

This function allows to control the CEC-enabled devices, that are connected through HDMI ports by using the remote control of the TV.

The CEC option in the System>Settings>More menu should be set as Enabled at first. Press the Source button and select the HDMI input of the connected CEC device from the Sources List menu. When new CEC source device is connected, it will be listed in source menu with its own name instead of the connected HDMI ports name(such as DVD Player, Recorder 1 etc.).

The TV remote is automatically able to perform the main functions after the connected HDMI source has been selected.

To terminate this operation and control the TV via the remote again, press Quick Menu button on the remote, highlight the CEC RC Passthrough and set as Off by pressing Left or Right button. This feature can also be enabled or disabled under the System>Settings>More menu.

The TV supports ARC (Audio Return Channel). This feature is an audio link meant to replace other cables between the TV and an audio system (A/V receiver or speaker system).

When ARC is active, the TV does not mute its other audio outputs automatically. You will need to decrease TV volume to zero manually if you wish to hear the ARC audio only (same as optical or co-axial digital audio outputs). If you want to change connected device’s volume level, you should select that device from the source list. In that case volume control keys are directed to connected audio device.

Note: ARC is supported only via the HDMI1 input.
System Audio Control

Allows an Audio Amplifier/Receiver to be used with the TV. The volume can be controlled using the remote control of the TV. To activate this feature set the **Speakers** option in the **System>Settings>More** menu as **Amplifier**. The TV speakers will be muted and the sound of the watched source will be provided from the connected sound system.

*Note: The audio device should support System Audio Control feature and **CEC** option should be set as **Enabled**.*
### TV Menu Contents

#### System - Picture Menu Contents

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mode</strong></td>
<td>You can change the picture mode to suit your preference or requirements. Picture mode can be set to one of these options: Cinema, Game (optional), Sports, Dynamic and Natural.</td>
</tr>
<tr>
<td><strong>Contrast</strong></td>
<td>Adjusts the light and dark values on the screen.</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>Adjusts the brightness values on the screen.</td>
</tr>
<tr>
<td><strong>Sharpness</strong></td>
<td>Sets the sharpness value for the objects displayed on the screen.</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Sets the colour value, adjusting the colors.</td>
</tr>
<tr>
<td><strong>Energy Saving</strong></td>
<td>For setting the Energy Saving to Custom, Minimum, Medium, Maximum, Auto, Screen Off or Off.</td>
</tr>
<tr>
<td><strong>Note:</strong></td>
<td>Available options may differ depending on the selected Mode.</td>
</tr>
<tr>
<td><strong>Backlight</strong></td>
<td>This setting controls the backlight level. The backlight function will be inactive if the Energy Saving is set to an option other than Custom.</td>
</tr>
</tbody>
</table>

#### Advanced Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dynamic Contrast</strong></td>
<td>You can change the dynamic contrast ratio to desired value.</td>
</tr>
<tr>
<td><strong>Noise Reduction</strong></td>
<td>If the signal is weak and the picture is noisy, use the Noise Reduction setting to reduce the amount of noise.</td>
</tr>
<tr>
<td><strong>Colour Temp</strong></td>
<td>Sets the desired colour temperature value. Cool, Normal, Warm and Custom options are available.</td>
</tr>
<tr>
<td><strong>White Point</strong></td>
<td>If the Colour Temp option is set as Custom, this setting will be available. Increase the ‘warmth’ or ‘coolness’ of the picture by pressing Left or Right buttons.</td>
</tr>
<tr>
<td><strong>Picture Zoom</strong></td>
<td>Sets the desired image size format.</td>
</tr>
<tr>
<td><strong>Film Mode</strong></td>
<td>Films are recorded at a different number of frames per second to normal television programmes. Turn this feature on when you are watching films to see the fast motion scenes clearly.</td>
</tr>
<tr>
<td><strong>Skin Tone</strong></td>
<td>Skin tone can be changed between -5 and 5.</td>
</tr>
<tr>
<td><strong>Colour Shift</strong></td>
<td>Adjust the desired colour tone.</td>
</tr>
<tr>
<td><strong>RGB Gain (Optional)</strong></td>
<td>You can configure the colour temperature values using the RGB Gain feature.</td>
</tr>
<tr>
<td><strong>HDMI Full Range</strong></td>
<td>While watching from a HDMI source, this feature will be visible. You can use this feature to enhance blackness in the picture.</td>
</tr>
</tbody>
</table>

#### PC Position

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Autoposition</strong></td>
<td>Automatically optimizes the display. Press OK to optimize.</td>
</tr>
<tr>
<td><strong>H Position</strong></td>
<td>This item shifts the image horizontally to the right hand side or left hand side of the screen.</td>
</tr>
<tr>
<td><strong>V Position</strong></td>
<td>This item shifts the image vertically towards the top or bottom of the screen.</td>
</tr>
<tr>
<td><strong>Dot Clock</strong></td>
<td>Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.</td>
</tr>
<tr>
<td><strong>Phase</strong></td>
<td>Depending on the input source(computer etc.) you may see a hazy or noisy picture on the screen. You can use phase to get a clearer picture by trial and error.</td>
</tr>
</tbody>
</table>

**Reset**

 Resets the picture settings to factory default settings (except Game Mode).

*While in VGA (PC) mode, some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to the Picture Settings while in PC mode.*
<table>
<thead>
<tr>
<th><strong>System - Sound Menu Contents</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volume</strong></td>
<td>Adjusts the volume level.</td>
</tr>
<tr>
<td><strong>Equalizer</strong></td>
<td>Selects the equalizer mode. Custom settings can be made only when in <strong>User</strong> mode.</td>
</tr>
<tr>
<td><strong>Balance</strong></td>
<td>Adjusts whether the sound comes from the left or right speaker.</td>
</tr>
<tr>
<td><strong>Headphone</strong></td>
<td>Sets headphone volume. Please ensure before using headphones that the headphone volume is set to a low level, to prevent damage to your hearing.</td>
</tr>
<tr>
<td><strong>Sound Mode</strong></td>
<td>You can select a sound mode (If the viewed channel supports).</td>
</tr>
<tr>
<td><strong>AVL (Automatic Volume Limiting)</strong></td>
<td>Sets the sound to obtain fixed output level between programmes.</td>
</tr>
<tr>
<td><strong>Headphone/Lineout</strong></td>
<td>When you connect an external amplifier to your TV using the headphone jack, you can select this option as <strong>Lineout</strong>. If you have connected headphones to the TV, set this option as <strong>Headphone</strong>. Please ensure before using headphones that this menu item is set to <strong>Headphone</strong>. If it is set to <strong>Lineout</strong>, the output from the headphone socket will be set to maximum which could damage your hearing.</td>
</tr>
<tr>
<td><strong>Dynamic Bass</strong></td>
<td>Enables or disables the Dynamic Bass.</td>
</tr>
<tr>
<td><strong>DTS TruSurround</strong></td>
<td>Enables or disables the <strong>DTS TruSurround</strong>.</td>
</tr>
<tr>
<td><strong>Digital Out</strong></td>
<td>Sets digital out audio type.</td>
</tr>
<tr>
<td><strong>System - Settings Menu Contents</strong></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Conditional Access</strong></td>
<td>Controls conditional access modules when available.</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>You may set a different language depending on the broadcaster and the country.</td>
</tr>
</tbody>
</table>
| **Parental** | Enter correct password to change parental settings. You can easily adjust **Menu Lock**, **Maturity Lock**, **Child Lock** or **Guidance** in this menu. You can also set a new **PIN** or change the **Default CICAM PIN** using the related options.  
*Note:* Some menu options may not be available depending on the country selection in the **First Time Installation**. Default PIN can be set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the **First Time Installation** use the PIN that you have defined. |
| **Timers** | Sets sleep timer to turn off the TV after a certain time. Sets timers for selected programmes. |
| **Date/Time** | Sets date and time. |
| **Sources** | Enables or disables selected source options. |
| **Network/Internet Settings** | Displays network/internet settings. |
| **Accessibility** | Displays accessibility options of the TV. |
| **Hard of Hearing** | Enables any special feature sent from the broadcaster. |
| **Audio Description** | A narration track will be played for the blind or visually impaired audience. Press **OK** to see all available **Audio Description** menu options. This feature is available only if the broadcaster supports it.  
*Note:* Audio description sound feature is not available in recording or time shifting mode. |
| **More** | Displays other setting options of the TV. |
| **Menu Timeout** | Changes timeout duration for menu screens. |
| **Software Upgrade** | Ensures that your TV has the latest firmware. Press **OK** to see the menu options. |
| **Application Version** | Displays current software version. |
| **Subtitle Mode** | This option is used to select which subtitle mode will be on the screen (**DVB subtitle** / **Teletext subtitle**) if both is available. Default value is **DVB** subtitle. This feature is available only for the country option of Norway. |
| **Auto TV OFF** | Sets the desired time for the TV to automatically go into standby mode when not being operated. |
| **Store Mode** | Select this mode for store display purposes. Whilst **Store Mode** is enabled, some items in the TV menu may not be available. |
| **Power Up Mode** | This setting configures the power up mode preference. **Last State** and **Standby** options are available. |
| **CEC** | With this setting you can enable and disable CEC functionality completely. Press Left or Right button to enable or disable the feature. |
| **CEC Auto Power On** | This function allows the connected HDMI-CEC compatible device to turn on the TV and switch to its input source automatically. Press **Left** or **Right** button to enable or disable the feature. |
| **Speakers** | To hear the TV audio from the connected compatible audio device set as **Amplifier**. You can use the remote control of the TV to control the volume of the audio device. |
| **OSS** | Displays Open Source Software license information. |
## Installation Menu Contents

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automatic channel scan (Retune)</strong></td>
<td>Displays automatic tuning options. <strong>Digital Aerial</strong>: Searches and stores aerial DVB stations. <strong>Digital Cable</strong>: Searches and stores cable DVB stations. <strong>Analogue</strong>: Searches and stores analogue stations.</td>
</tr>
<tr>
<td><strong>Manual Channel Scan</strong></td>
<td>This feature can be used for direct broadcast entry.</td>
</tr>
<tr>
<td><strong>Network Channel Scan</strong></td>
<td>Searches for the linked channels in the broadcast system. <strong>Digital Aerial</strong>: Searches for aerial network channels. <strong>Digital Cable</strong>: Searches for cable network channels.</td>
</tr>
<tr>
<td><strong>Analogue Fine Tune</strong></td>
<td>You can use this setting for fine tuning analogue channels. This feature is not available if no analogue channels are stored.</td>
</tr>
<tr>
<td><strong>Installation Settings (Optional)</strong></td>
<td>Displays installation settings menu. <strong>Standby Search</strong>: Your TV will search for new or missing channels while in standby. Any new found broadcasts will be shown.</td>
</tr>
<tr>
<td><strong>Clear Service List</strong></td>
<td>Use this setting to clear channels stored. This setting is visible only when the <strong>Country</strong> option is set to Denmark, Sweden, Norway or Finland.</td>
</tr>
<tr>
<td><strong>Select Active Network</strong></td>
<td>This setting allows you to select only the broadcasts within the selected network to be listed in the channel list. This feature is available only for the country option of Norway.</td>
</tr>
<tr>
<td><strong>First Time Installation</strong></td>
<td>Deletes all stored channels and settings, resets TV to factory settings.</td>
</tr>
</tbody>
</table>
General TV Operation

Using the Channel List

The TV sorts all stored stations in the Channel List. You can edit this channel list, set favourites or set active stations to be listed by using the Channel List options. Press the OK/TV button to open the Channel List. You can filter the listed channels by pressing the Blue button or open the Edit Channel List menu by pressing the Green button in order to make advanced changes in the current list.

Managing the Favourite Lists

You can create four different lists of your favourite channels. Enter the Channel List in the main menu or press the Green button while the Channel List is displayed on the screen in order to open the Edit Channel List menu. Select the desired channel on the list. You can make multiple choices by pressing the Yellow button. Then press the OK button to open the Channel Edit Options menu and select Add/Remove Favourites option. Press the OK button again. Set the desired list option to On. The selected channel/s will be added to the list. In order to remove a channel or channels from a favourite list follow the same steps and set the desired list option to Off.

You can use the Filter function in the Edit Channel List menu to filter the channels in the Channel list permanently according to your preferences. Using this Filter option, you can set one of your four favourite lists to be displayed everytime the Channel list is opened. The filtering function in the Channel list menu will only filter the currently displayed Channel list in order to find a channel and tune in to it. These changes will not remain the next time the Channel list is opened if you don’t save them. To save the changes on the list press the Red button after filtering while the Channel list is displayed on the screen.

Configuring Parental Settings

The Parental Settings menu options can be used to prohibit users from viewing of certain programmes, channels and using of menus. These settings are located in the System>Settings>Parental menu.

To display parental lock menu options, a PIN number should be entered. After coding the correct PIN number, Parental Settings menu will be displayed.

Menu Lock: This setting enables or disables access to all menus or installation menus of the TV.

Guidance: This setting enables or disables access of some of the MHEG applications. Disabled applications can be released by entering the right PIN.

Set PIN: Defines a new PIN number.

Default CICAM PIN: This option will appear as greyed out if no CI module is inserted into the CI slot of the TV. You can change the default PIN of the CI CAM using this option.

Note: Default PIN can be set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the First Time Installation use the PIN that you have defined.

Some options may not be available depending on the country selection in the First Time Installation.

Electronic Programme Guide (EPG)

Some channels send information about their broadcast schedules. Press the Epg button to view the Programme Guide menu.

There are 3 different types of schedule layouts available, Timeline Schedule, List Schedule and Now/Next Schedule. To switch between them follow the instructions on the bottom of the screen.

Timeline Schedule

Zoom (Yellow button): Press the Yellow button to see events in a wider time interval.

Filter (Blue button): Views filtering options.

Highlight Genre (Subtitles button): Displays Highlight Genre menu. Using this feature, you can search the programme guide database in accordance with the genre. Info available in the programme guide will be searched and results matching your criteria will be highlighted.

Options (OK button): Displays event options.

Event Details (Info button): Displays detailed information about selected events.

Next/Prev Day (Programme +/- buttons): Displays the events of previous or next day.

Search (Text button): Displays Guide Search menu.

Now (Red button): Displays current event of the highlighted channel.
Rec./Stop (Record button): The TV will start to record the selected event. You can press again to stop the recording.

IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

Note: Switching to a different broadcast or source is not available during a recording.

List Schedule(*)

(*) In this layout option, only the events of the highlighted channel will be listed.

Prev. Time Slice (Red button): Displays the events of previous time slice.

Next/Prev Day (Programme +/- buttons): Displays the events of previous or next day.

Event Details (Info button): Displays detailed information about selected events.

Filter (Text button): Views filtering options.

Next Time Slice (Green button): Displays the events of next time slice.

Options (OK button): Displays event options.

Rec./Stop (Record button): The TV will start to record the selected event. You can press again to stop the recording.

IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

Note: Switching to a different broadcast or source is not available during a recording.

Now/Next Schedule

Navigate (Directional buttons): Press the directional buttons to navigate through the channels and programmes.

Options (OK button): Displays event options.

Event Details (Info button): Displays detailed information about selected events.

Filter (Blue button): Views filtering options.

Rec./Stop (Record button): The TV will start to record the selected event. You can press again to stop the recording.

IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

Note: Switching to a different broadcast or source is not available during a recording.

Teletext Services

Press the Text button to enter. Press again to activate mix mode, which allows you to see the teletext page and the TV broadcast at the same time. Press once more to exit. If available, sections in the teletext pages will become colour-coded and can be selected by pressing the coloured buttons. Follow the instructions displayed on the screen.

Digital Teletext

Press the Text button to view digital teletext information. Operate it with the coloured buttons, cursor buttons and the OK button. The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on the digital teletext screen. When the Text button is pressed again, the TV returns to television broadcast.
Software Upgrade
Your TV is capable of finding and updating the firmware automatically via the broadcast signal or via Internet.

Software upgrade search via user interface
On the main menu select System>Settings and then More. Navigate to Software upgrade and press the OK button. In Upgrade options menu select Scan for upgrade and press OK button to check for a new software upgrade.

If a new upgrade is found, it starts to download the upgrade. After the download is completed, a warning will be displayed, press OK button to complete software upgrade process and restart TV.

3 AM search and upgrade mode
Your TV will search for new upgrades at 3:00 o'clock if Automatic scanning option in the Upgrade options menu is set to Enabled and if the TV is connected to an aerial signal. If a new software is found and downloaded successfully, it will be installed at the next power on.

Note: Do not unplug the power cord while led is blinking during the reboot process. If the TV fails to come on after the upgrade, unplug, wait for two minutes then plug it back in.

Troubleshooting & Tips
Tv will not turn on
Make sure the power cord is plugged in securely to a wall outlet. Press the Power button on the TV.

Poor picture
• Check if you have correctly tuned the TV.
• Low signal level can cause picture distortion. Please check antenna connections.
• Check if you have entered the correct channel frequency if you have performed manual tuning.

No picture
• TV is not receiving any signal. Make sure the correct source has been selected.
• Is the antenna connected properly?
• Is the antenna cable damaged?
• Are suitable plugs used to connect the antenna?
• If you are in doubt, consult your dealer.

No sound
• Check if the TV sound is muted. Press the Mute button or increase the volume to check.
• Sound is coming from only one speaker. Check the balance settings from Sound menu.

Remote control - no operation
• The batteries may be exhausted. Replace the batteries.
• The batteries maybe inserted incorrectly. Refer to the section “Inserting the Batteries into the Remote”.

No signal on an input source
• It is possible that no device is connected.
• Check the AV cables and connections from your device.
• Check the device is switched on.

Recording unavailable
To record a programme, you should first correctly connect a USB storage device to your TV, while the TV is switched off. You should then switch on the TV to enable the recording feature. If you cannot record, check the storage device is correctly formatted and there is sufficient space.

USB is too slow
If a “USB storage device writing speed too slow to record” message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB storage device does not meet the speed requirements. Try using a different USB storage device.
The following table is an illustration of some of the typical video display modes. Your TV may not support all resolutions. Your TV supports up to 1920x1080.

<table>
<thead>
<tr>
<th>Index</th>
<th>Resolution</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>640x480</td>
<td>60 Hz</td>
</tr>
<tr>
<td>2</td>
<td>800x600</td>
<td>56 Hz</td>
</tr>
<tr>
<td>3</td>
<td>800x600</td>
<td>60 Hz</td>
</tr>
<tr>
<td>4</td>
<td>1024x768</td>
<td>60 Hz</td>
</tr>
<tr>
<td>5</td>
<td>1024x768</td>
<td>66 Hz</td>
</tr>
<tr>
<td>6</td>
<td>1280x768</td>
<td>60 Hz</td>
</tr>
<tr>
<td>7</td>
<td>1280x960</td>
<td>60 Hz</td>
</tr>
<tr>
<td>8</td>
<td>1280x1024</td>
<td>60 Hz</td>
</tr>
<tr>
<td>9</td>
<td>1360x768</td>
<td>60 Hz</td>
</tr>
<tr>
<td>10</td>
<td>1400x1050</td>
<td>60 Hz</td>
</tr>
<tr>
<td>11</td>
<td>1600x1200</td>
<td>60 Hz</td>
</tr>
<tr>
<td>12</td>
<td>1920x1080</td>
<td>60 Hz</td>
</tr>
</tbody>
</table>

In some cases a signal on the TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.
## Supported File Formats for USB Mode

<table>
<thead>
<tr>
<th>Media</th>
<th>Extension</th>
<th>Format</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Video</td>
<td>.mpg, .mpeg</td>
<td>MPEG1-2</td>
<td>MPEG1: 768x576 @ 30P; MPEG2: 1920x1080 @ 30P</td>
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<td>.vob</td>
<td>MPEG2</td>
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<td>.mp4</td>
<td>MPEG4, Xvid, H.264</td>
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<td>.mkv</td>
<td>H.264, MPEG4,VC-1</td>
<td>1920x1080 @ 30P</td>
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<td>.avi</td>
<td>MPEG2, MPEG4, Xvid, H.264</td>
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<td>.flv</td>
<td>H.264/VP6/ Sorenson</td>
<td>H.264/VP6: 1920x1080 @ 30P; Sorenson: 352x288 @ 30P</td>
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<td>.mp4, .mov, .3gpp, .3gp, MPEG transport stream, .ts,.trp, .tp, .mkv</td>
<td>HEVC/H.265</td>
<td>1080P @ 60fps - 50Mbps</td>
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<tr>
<td></td>
<td>.3gp</td>
<td>MPEG4, H.264</td>
<td>1920x1080 @ 30P</td>
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<td>Audio</td>
<td>.mp3</td>
<td>MPEG1 Layer 2/3</td>
<td>Layer2: 32Kbps ~ 448Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz, 16kHz, 22.05kHz, 24kHz (Sampling rate)</td>
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<td>Layer3: 32Kbps ~ 320Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz, 16kHz, 22.05kHz, 24kHz, 8kHz, 11.025kHz, 12kHz (Sampling rate)</td>
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<td>AAC</td>
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<td>LPCM</td>
<td>Unsigned 8bit PCM, Signed/Unsigned 16bit PCM (big / little endian), 24bit PCM (big endian), DVD LPCM 16/20/24bit (Bit rate) / 6kHz, 8kHz, 11.025kHz, 12kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz (Sampling rate)</td>
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<td>LBR</td>
<td>32Kbps ~ 96Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz (Sampling rate)</td>
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<td>Picture</td>
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<td>Baseline</td>
<td>Resolution(WxH): 17000x10000</td>
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<td>.bmp</td>
<td>Progressive</td>
<td>Resolution(WxH): 4000x4000</td>
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<td>Subtitle</td>
<td>.sub, .srt</td>
<td>-</td>
<td>Resolution(WxH): 5760x4096</td>
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</table>
Supported DVI Resolutions

When connecting devices to your TV’s connectors by using DVI converter cable (DVI to HDMI cable - not supplied), you can refer to the following resolution information.

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<thead>
<tr>
<th>Resolution</th>
<th>56Hz</th>
<th>60Hz</th>
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<td>1024x768</td>
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<td>1600x1200</td>
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</table>

Find out all you need to know about the latest, trend-setting TV technology on our website.

www.toshiba-tv.com

You can review your TV user manual online or download as you like.
**Wired Network Connection**

- You must have a modem/router connected to an active broadband connection.
- Connect your TV to your modem/router via an ethernet cable. There is a LAN port at the rear (back) of your TV.

![Broadband ISP connection](image)

**Network Type**
The **Network Type** can be selected as **Wired Device** or **Disabled**, in accordance with the active connection to the TV set. Select this as **Wired Device** if you are connecting via an ethernet cable.

**Advanced Settings**
Highlight **Advanced Settings** and press the **OK** button. On the next screen you can change the IP and DNS settings of the TV. Highlight the desired one and press Left or Right button to change the setting from **Automatic** to **Manual**. Now you can enter the **Manual IP** and / or **Manual DNS** values. Select the related item in the drop down menu and enter the new values using the numeric buttons of the remote. Press the **OK** button to save settings when complete.

**Internet Speed Test**
Highlight **Internet Speed Test** and press the **OK** button. TV will check the internet connection bandwidth and display the result when complete.

**Troubleshooting**

**Internet Connection Not Available**
If the MAC address (a unique identifier number) of your PC or modem has been permanently registered, it is possible that your TV might not connect to the internet. In such a case, the MAC address is authenticated each time when you connect to the internet. This is a precaution against unauthorized access. Since your TV has its own MAC address, your internet service provider cannot validate the MAC address of your TV. For this reason, your TV cannot connect to the internet. Contact your internet service provider and request information on how to connect a different device, such as your TV, to the internet.

It is also possible that the connection may not be available due to a firewall problem. If you think this causes your problem, contact your internet service provider.
**Product Fiche**

**Commercial Brand:** TOSHIBA

**Model No.:** 24W1753DB

**Energy efficiency class:** A+

**Visible screen size (diagonal, approx.) (inch/cm):** 24 inches 61 cm

**On mode average power consumption (Watt):** 19.0 W

**Annual energy consumption (kWh/annum):** 27.0 kWh

**Standby power consumption (Watt):** 0.50 W

**Off mode power consumption (Watt):** N/A

**Display resolution (px):** 1366x768

---

**A. VESA WALL MOUNT MEASUREMENTS**

<table>
<thead>
<tr>
<th>B</th>
<th>Hole Pattern Sizes (mm)</th>
<th>W</th>
<th>H</th>
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</thead>
<tbody>
<tr>
<td>C</td>
<td>Screw Sizes</td>
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<tr>
<td>D</td>
<td>Length (X)</td>
<td>min. (mm)</td>
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<tr>
<td></td>
<td>max. (mm)</td>
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<tr>
<td>E</td>
<td>Thread (Y)</td>
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**B. VESA WALL MOUNT MEASUREMENTS**

<table>
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**C. Screw Sizes**

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**D. Length (X)**

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**E. Thread (Y)**

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TOSHIBA