# Panasonic®

## OPERATING INSTRUCTIONS

# TX-24M330B
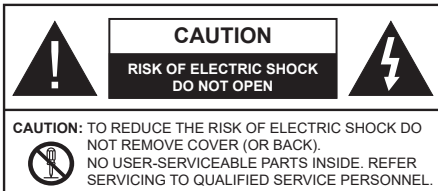
## LED TV

## Contents

## 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 5000 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 indoor 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.

- 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 |

### 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.

**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**

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

## 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.

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A television may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

• ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the television set.

• ALWAYS use furniture that can safely support the television set.

• ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.

• ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.

• ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.

• NEVER place a television set in an unstable location.

• NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.

• NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.

• NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.

• The equipment is only suitable for mounting at heights ≤2 m.

If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

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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)

## 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

• Using other wall-hanging brackets, or installing a wall-hanging bracket by yourself have the risk of personal injury and product damage. In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets. Any damage caused by installing without a qualified installer will void your warranty.

• Carefully read the instructions accompanying optional accessories, and be absolutely sure to take steps to prevent the TV from falling off.

• Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

• Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.

• To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

Figures and illustrations in this user manual are provided for reference only and may differ from the actual product appearance. Product design and specifications may be changed without notice.

## Maintenance

**First, remove the mains plug from the mains socket.**

### Display panel, Cabinet, Pedestal

### Regular care:

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to remove dirt or fingerprints.

### For stubborn dirt:

1. First clean the dust from the surface.

2. Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water).

3. Wring out the cloth firmly. (Please note, do not let liquid enter the TV inside as it may lead to product failure.)

4. Carefully wipe moisten and wipe away the stubborn dirt.

5. Finally, wipe away all the moisture.

### Caution

Do not use a hard cloth or rub the surface too hard, otherwise this may cause scratches on the surface.

• Take care not to subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.

• The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.

• Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

### Mains plug

Wipe the mains plug with a dry cloth at regular intervals.

Moisture and dust may cause fire or electrical shock.
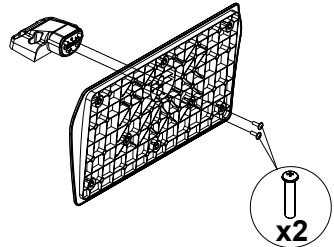
## Assembling / Removing the pedestal

**Preparations**

Take out the pedestal(s) and the TV from the packing case and put the TV onto a work table with the screen panel down on the clean and soft cloth (blanket, etc.)

• Use a flat and firm table bigger than the TV.
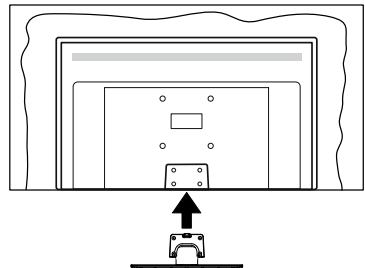
• Do not hold the screen panel part.

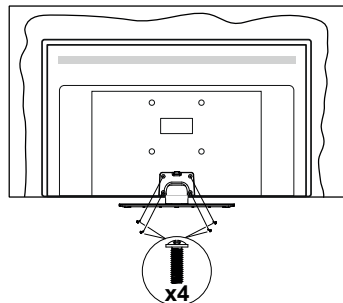• Make sure not to scratch or break the TV.

**Assembling the pedestal**

1. The stand of the TV consists two pieces. Install these pieces together.



2. Place the stand(s) on the stand mounting pattern(s) on the rear side of the TV.



3. Insert the screws (M4 x 12) provided and tighten them gently until the stand is properly fitted.

### Removing the pedestal from the TV

Be sure to remove the pedestal in the following way when using the wall-hanging bracket or repacking the TV.

• Put the TV onto a work table with the screen panel down on the clean and soft cloth. Leave the stand(s) protruding over the edge of the surface.

• Unsrew the screws that fixing the stand(s).

• Remove the stand(s).

### When using the wall-hanging bracket

Please contact your local Panasonic dealer to purchase the recommended wall-hanging bracket.
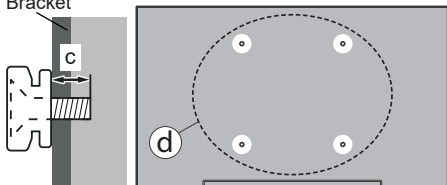
Holes for wall-hanging bracket installation;

### Rear of the TV
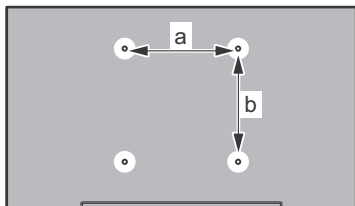


| a (mm) | 75 |
|--------|-----|
| b (mm) | 75 |

### View from the side



| (d) | Depth of screw (c) | min. | 7 mm |
|-----|--------------------|------|------|
|     |                    | max. | 10 mm |
|     | Diameter           |      | M4 |

*Note: The screws for fixing the TV onto the wall-hanging bracket are not supplied with the TV.*

### 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 **Settings>Picture** menu.*

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

If pressed Right button or Left button consecutively, "**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.

### Features

• Remote controlled colour TV

• Fully integrated digital terrestrial/cable/satellite TV (DVB-T-T2/C/S-S2)

• 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)
- Picture off function
- Ethernet (LAN) for interactive services available on digital channels

- Remote Control
- Batteries: 2 x AA
- Instruction Book
- Detachable stand
- Stand mounting screws (M4 x 12)

## 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."**

The **Auto TV OFF** option(in the **Settings>System >More** menu) could have been set to a value between 1 and 8 hours by default. If this setting is not set as **Off** and the TV has been left on and not been operated during the set time, it will switch into standby mode after the set time has expired. When you next switch-on the TV, the following message will be displayed. **"TV switched to stand-by mode automatically because no operation was made for a long time."** Before the TV switches into standby mode a dialogue window will be displayed. If you do not press any button the TV will switch into the standby mode after a waiting period of about 5 minutes. You can highlight **Yes** and press **OK** to switch the TV into standby mode immediately. If you highlight **No** and press **OK**, the TV will remain on. You can also choose to cancel the **Auto TV OFF** function from this dialogue. Highlight **Disable** and press **OK**, the TV will remain on and the function will be cancelled. You can enable this function again by changing the setting of the **Auto TV OFF** option from the **Settings>System>More** menu.

## TV Control Switch & Operation
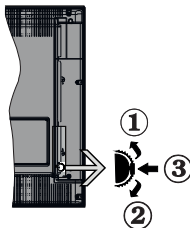


1. Up direction
2. Down direction

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 button.*

## Operation with the Remote Control

Press the **Home** button on your remote control to display main menu. Use the directional buttons and **OK** button to navigate and set. Press **Return/Back** or **Home** 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 the **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 **Programme +/-** and **Volume +/-** buttons on the remote.

## Using Main TV Menu

When the **Home** button is pressed, the main TV menu will appear at the bottom of the screen. You can navigate through the menu items using the directional buttons on the remote. To select an item or see the sub-menu options of the highlighted menu press **OK** button. When you highlight a menu option some of the sub-menu items of this menu may appear on the upper side of the menu bar for quick access. To use a quick access item highlight it, press **OK** and set as desired using the Left/Right directional buttons. When finished press **OK** or **Back/Return** button to exit.

Press **Exit** button to close the main menu.

### 1. Home

When main menu is opened **Home** menu bar will be highlighted. The content of the **Home** menu can

be customised by adding options from other menus. Just highlight an option and press the Down direction button on the remote. If you see **Add to Home** option you can add it to the **Home** menu. Same way you can delete or change the position of any item in the **Home** menu. Press the Down direction button and select **Delete** or **Move** option and press **OK**. In order to move a menu item use the Right and Left direction buttons to select the position that you want the item to move to and press **OK**.

## 2. TV

### 2.1. Guide

You can access the electronic programme guide menu using this option. Refer to **Electronic Programme Guide** section for more information.

### 2.2. Channels

You can access the **Channels** menu using this option. Refer to **Using the Channel List** section for more information.

### 2.3. Timers

You can set timers for future events using the options of this menu. You can also review the previously created timers under this menu.

To add a new timer select the **Add Timer** tab using the Left/Right buttons and press **OK**. Set the sub-menu options as desired and when finished press **OK**. A new timer will be created.

To edit a previously created timer, highlight that timer, select the **Edit Selected Timer** tab and press **OK**. Change the sub-menu options as desired and press **OK** to save your settings.

To cancel an already set timer, highlight that timer, select **Delete Selected Timer** tab and press **OK**. A confirmation message will be displayed. Highlight **Yes** and press **OK** to proceed. The timer will be cancelled.

It is not possible to set timers for two or more events that will broadcasted in different channels at the same time interval. In this case you will be asked to choose one of these timers and cancel others. Highlight the timer you want to cancel and press **OK**, **Options** menu will be displayed. Then highlight **Set/Cancel** and press **OK** to cancel that timer. You will have to save changes after that. In order to do that press **OK**, highlight **Save Changes** and press **OK** again.

## 3. Settings

You can manage the settings of your TV using the options of this menu. Refer to **Settings Menu Contents** section for more information.

## 4. Sources

You can manage your input source references using the options of this menu. To change the current source highlight one of the options and press **OK**.

### 4.1. Source Settings

Edit the names, enable or disable selected source options.

## Inserting the Batteries into the Remote

Remove the back cover to reveal the battery compartment. Insert two size **AA** 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.

A message will be displayed on the screen when the batteries are low and must be replaced. Note that when the batteries are low, the performance of the remote control may be impaired.

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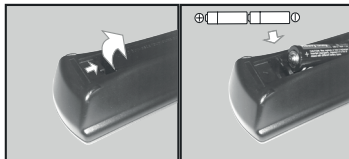


## Power Connection

**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 or satellite plug to the SATELLITE INPUT (LNB) socket located on the rear side of the TV.

**Rear side of the TV**
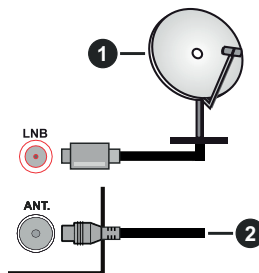


**1.** Satellite

**2.** Aerial or cable

> 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.

## Disposal of Old Equipment and Batteries

### Only for European Union and countries with recycling systems

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resouces and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### Note for the battery symbol (bottom symbol):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

## Declaration of Conformity (DoC)

Hereby, Panasonic Marketing Europe GmbH, declares that this TV is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU.

If you want to get a copy of the original DoC of this TV, please visit the following website:

http://www.ptc.panasonic.eu/compliance-documents

Authorised Representative:

Panasonic Testing Centre

Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, Germany

Web Site: http://www.panasonic.com

## UK Declaration of Conformity (DoC)

Hereby, Panasonic Marketing Europe GmbH, declares that this product is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017 No. 1206.

If you want to get a copy of the original DoC of this product, please visit the following website:

http://www.ptc.panasonic.eu/compliance-documents

Panasonic Marketing Europe GmbH, Wiesbaden, Germany

Importer for UK:

Panasonic UK, a branch of Panasonic Marketing Europe GmbH

Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

## Sales and Support Information

### Customer Communication Centre

• For customers within the UK: **0344 844 3899**

• For customers within Ireland: **01289 8333**

• Monday - Friday 9:00am - 5:00pm, (Excluding public holidays).

• For further support on your product, please visit our website: **www.panasonic.co.uk**

### Direct Sales at Panasonic UK

• Order accessory and consumable items for your product with ease and confidence by phoning our Customer Comminications Centre Monday - Friday 9:00am - 5:00pm, (Excluding public holidays).

• Or go on line through our Internet Accessory ordering application at **www.pas-europe.com**.

- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.
- 

## Specification

| | |
|---|---|
| **TV Broadcasting** | PAL BG/I/DK<br>SECAM BG/DK |
| **Receiving Channels** | VHF (BAND I/III) - UHF (BAND U) - HYPERBAND |
| **Digital Reception** | Fully integrated digital terrestrial-cable-satellite TV (DVB-T-C-S)<br>(DVB-T2, DVB-S2 compliant) |
| **Number of Preset Channels** | 8 000 |
| **Channel Indicator** | On Screen Display |
| **RF Aerial Input** | 75 Ohm (unbalanced) |
| **Operating Voltage** | 220-240V AC, 50Hz. |
| **Audio** | A2 Stereo+Nicam Stereo |
| **Headphone** | 3.5 mm mini stereo jack |
| **Audio Output Power (WRMS.) (10% THD)** | 2 x 2,5 W |
| **Power Consumption (W)** | 45 W |
| **Weight (kg)** | 3,75 Kg |
| **TV Dimensions DxLxH (with stand) (mm)** | 134 x 553 x 372 |
| **TV Dimensions DxLxH (without stand) (mm)** | 63 x 553 x 334 |
| **Display** | 16/9 24" |
| **Operation temperature and operation humidity** | 0ºC up to 40ºC, 85% humidity max |

For more product information, please visit EPREL: https://eprel.ec.europa.eu.

EPREL registration number is available on https://eprel.panasonic.eu/product.

## Notice

**DVB / Data broadcasting**

- This TV is designed to meet the standards (as of August, 2019) of DVB-T / T2 (MPEG2, MPEG4-AVC(H.264) and HEVC(H.265)) digital terrestrial services, DVB-C (MPEG2, MPEG4-AVC(H.264) and HEVC(H.265)) digital cable services and DVB-S (MPEG2, MPEG4-AVC(H.264) and HEVC(H.265)) digital satellite services.

  Consult your local dealer for availability of DVB-T / T2 or DVB-S services in your area.
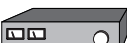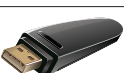
  Consult your cable service provider for availability of DVB-C services with this TV.

- This TV may not work correctly with the signal which does not meet the standards of DVB-T / T2, DVB-C or DVB-S.

- Not all the features are available depending on the country, area, broadcaster, service provider and satellite environment.

- Not all CI modules work properly with this TV. Consult your service provider about the available CI module.

- This TV may not work correctly with CI module that is not approved by the service provider.

- Additional fees may be charged depending on the service provider.

- The compatibility with future services is not guaranteed.
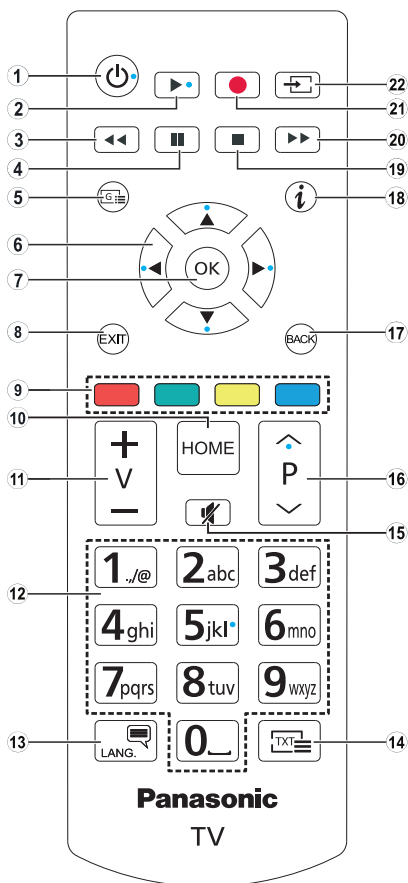
1. **Standby:** Switches On / Off the TV
2. **Play:** Starts to play selected media
3. **Rewind:** Moves frames backwards in media such as movies
4. **Pause:** Pauses the media being played
5. **Guide:** Displays the electronic programme guide
6. **Directional buttons:** Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left
7. **OK:** Confirms user selections, holds the page (in TXT mode), views **Channels** menu (DTV mode)
8. **Exit:** Closes and exits from displayed menus or returns to previous screen
9. **Coloured Buttons:** Follow the on-screen instructions for coloured button functions
10. **Home:** Displays TV menu
11. **Volume +/-**
12. **Numeric buttons:** Switches the channel, enters a number or a letter in the text box on the screen, switches the TV on when in standby mode
13. **Language:** Switches among sound modes (analogue TV), displays and changes audio/subtitle language and turns subtitles on or off (digital TV, where available)
14. **Text:** Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
15. **Mute:** Completely turns off the volume of the TV
16. **Programme +/-:** Programme up-down, Page up-down (in TXT mode), switches the TV on when in standby mode
17. **Back/Return:** Returns to previous screen, previous menu, opens index page (in TXT mode). Quickly cycles between previous and current channels or sources
18. **Info:** Displays information about on-screen content, shows hidden information (reveal - in TXT mode)
19. **Stop:** Stops the media being played
20. **Fast Forward:** Moves frames forward in media such as movies
21. No function
22. **Source:** Shows available broadcast and content sources

**English** - 10 -

## Connections

| Connector | Type | Cables | Device |
|---|---|---|---|
| VGA | VGA Connection (back) | | |
| AUDIO IN | PC/YPbPr Audio Connection (side) | YPbPr/PC Audio Cable | |
| HDMI | HDMI Connection (back) | | |
| Scart | Scart Connection (back) | | |
| YPBPR | YPbPr Video Connection (back) | PC to YPbPr Connection Cable | |
| SIDE AV | Side AV (Audio/Video) Connection (side) | Audio/Video Cable | |
| SPDIF | SPDIF (Coaxial Out) Connection (back) | | |
| HEADPHONE | Headphone Connection (side) | | |
| USB | USB Connection (side) | | |
| CI | CI Connection (side) | | CAM module |

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 audio inputs with a YPbPr/PC audio cable for audio connection. 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, H.265) 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.

## 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 middle of the side function switch on the TV in.

## To Switch the TV Off

Press the **Standby** button on the remote control or press the middle of the side function switch on the TV in and hold it down for a few seconds, the TV will switch 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.*

When turned on for the first time, the language selection screen is displayed. Select the desired language and press **OK**. In the following steps of the installation guide, set your preferences using the directional buttons and **OK** button.

On the second screen set your country preference. 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.

You can activate **Store Mode** option in the next step. 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 side 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 **Settings>System>More** menu and can be turned off/on later. Make your selection and press **OK** to continue.

On next screen you can set broadcast types to be searched, set your encrypted channel searching and time zone (depending on the country selection) preferences. 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, highlight **Next** and press **OK** to continue.

## About Selecting Broadcast Type

To turn a search option for a broadcast type highlight it and press **OK**. The checkbox next to the selected option will be checked. To turn the search option off clear the checkbox by pressing **OK** after moving the focus on the desired broadcast type option.

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

**Digital Cable:** If **D. Cable** broadcast search option is turned on, the TV will search for digital cable broadcasts after other initial settings are completed. A message will be displayed before starting to search asking if you want to perform cable network search. If you select **Yes** and press **OK** you can select **Network** or set values such as **Frequency**, **Network ID** and **Search Step** on the next screen. If you select **No** and press **OK** you can set **Start Frequency**, **Stop Frequency** and **Search Step** on the next screen. When finished, highlight **Next** and press **OK** button to continue.

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

**Satellite:** If **Satellite** broadcast search option is turned on, the TV will search for digital satellite broadcasts after other initial settings are completed. Before satellite search is performed some settings should be made. **Antenna Type** menu will be displayed first. You can select **Antenna Type** as **Direct**, **Single Satellite Cable** or **DiSEqC switch** by using Left or Right buttons. After selecting your antenna type press **OK** to see the options to proceed. **Continue**, **Transponder list** and **Configure LNB** options will be available. You can change the transponder and LNB settings using the related menu options.

• **Direct:** If you have a single receiver and a direct satellite dish, select this antenna type. Press **OK** to continue. Select an available satellite on the next screen and press **OK** to scan for services.

• **Single Satellite Cable:** If you have multiple receivers and a single satellite cable system, select this antenna type. Press **OK** to continue. Configure settings by following instructions on the next screen. Press **OK** to scan for services.

• **DiSEqC switch:** If you have multiple satellite dishes and a **DiSEqC switch**, select this antenna type. Then set the DiSEqC version and press **OK** to continue. You can set up to four satellites (if available) for version v1.0 and sixteen satellites for version v1.1 on the next screen. Press **OK** button to scan the first satellite in the list.

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

After the initial settings are completed TV will start to search for available broadcasts of the selected broadcast types.

While the search continues current scan results will be displayed at the bottom of the screen. After all the

available stations are stored, **Channels** menu will be displayed. You can edit the channel list according to your preferences using the **Edit** tab options or press the **Home** 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.

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.*

## Media Browser

You can play back music and movie files and display photo files stored on a USB storage device by connecting it to your TV. Connect a USB storage device to one of the USB inputs located on the side of the TV.

After connecting a USB storage device to your TV **Media Browser** menu will be displayed on the screen. You can access the content of the connected USB device any time later from the **Sources** menu. Select the related USB input option from this menu and press **OK**. Then select the file of your choice and press **OK** to display or play it back.

You can set your **Media Browser** preferences by using the **Settings** menu. **Settings** menu can be accessed via the information bar which is displayed on the bottom of the screen when pressed the **Info** button while playing back a video file or displaying a picture file. Press the **Info** button, highlight the gear wheel

symbol positioned on the right side of the information bar and press **OK**. **Picture Settings**, **Sound Settings**, **Media Browser Settings** and **Options** menus will be available. The contents of these menus may change according to the type of the currently open media file. Only **Sound Settings** menu will be available while playing back audio files.

| *Loop/Shuffle Mode Operation* | |
|---|---|
| Start playback and activate 🔁 | All files in the list will be continuously played in original order |
| Start playback and activate 🔂 | The same file will be played continuously (repeat) |
| Start playback and activate 🔀 | All files in the list will be played once in random order |
| Start playback and activate 🔁, 🔀 | All files in the list will be continuously played in the same random order |

To use the functions on the information bar highlight the symbol of the function and press **OK**. To change the status of a function highlight the symbol of the function and press **OK** as much as needed. If the symbol is marked with a red cross, that means it is deactivated.

## CEC

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 **Settings>System>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 and hold the "0-Zero" button on the remote control for 3 seconds.

You can disable the CEC functionality by setting the related option under the **Settings>System>More** menu accordingly.

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 **Settings>System>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.*

## Settings Menu Contents

### Picture Menu Contents

| | |
|---|---|
| **Mode** | 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**. |
| **Contrast** | Adjusts the light and dark values on the screen. |
| **Brightness** | Adjusts the brightness values on the screen. |
| **Sharpness** | Sets the sharpness value for the objects displayed on the screen. |
| **Colour** | Sets the colour value, adjusting the colours. |
| **Energy Saving** | For setting the **Energy Saving** to **Custom**, **Minimum**, **Medium**, **Maximum**, **Auto**, **Screen Off** or **Off**. <br> *Note: Available options may differ depending on the selected Mode.* |
| **Backlight** | This setting controls the backlight level. The backlight function will be inactive if the **Energy Saving** is set to an option other than **Custom**. |
| **Advanced Settings** | |
| **Dynamic Contrast** | You can change the dynamic contrast ratio to desired value. |
| **Noise Reduction** | If the signal is weak and the picture is noisy, use the **Noise Reduction** setting to reduce the amount of noise. |
| **Colour Temp** | Sets the desired colour temperature value. **Cool**, **Normal**, **Warm** and **Custom** options are available. |
| **White Point** | 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. |
| **Picture Zoom** | Sets the desired image size format. |
| **Picture Shift** | This option may be available depending on the **Picture Zoom** setting. Highlight and press **OK**, then use directional buttons to shift the picture upwards or downwards. |
| **Film Mode** | 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. |
| **Skin Tone** | Skin tone can be changed between -5 and 5. |
| **Colour Shift** | Adjust the desired colour tone. |
| **HDMI Full Range** | While watching from a HDMI source, this feature will be visible. You can use this feature to enhance blackness in the picture. |
| **PC Position** | Appears only when the input source is set to VGA/PC. |
| **Autoposition** | If the image is not centered in VGA mode use this option to automatically adjust the position of the image. Press **OK** to start the auto adjustment. |
| **H Position** | This item shifts the image horizontally to the right hand side or left hand side of the screen. |
| **V Position** | This item shifts the image vertically towards the top or bottom of the screen. |
| **Dot Clock** | Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts. |
| **Phase** | 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. |
| **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** menu while in PC mode.*

| Sound Menu Contents | |
|---|---|
| **Volume** | Adjusts the volume level. |
| **Equalizer** | Selects the equalizer mode. Custom settings can be made only when in **User** mode. |
| **Balance** | Adjusts whether the sound comes from the left or right speaker. |
| **Headphone** | Sets headphone volume.<br>Please ensure before using headphones that the headphone volume is set to a low level, to prevent damage to your hearing. |
| **Sound Mode** | You can select a sound mode (If the viewed channel supports). |
| **AVL (Automatic Volume Limiting)** | Sets the sound to obtain fixed output level between programmes. |
| **Headphone/Lineout** | When you connect an external amplifier to your TV using the headphone jack, you can select this option as **Lineout**. If you have connected headphones to the TV, set this option as **Headphone**.<br>Please ensure before using headphones that this menu item is set to **Headphone**. If it is set to **Lineout**, the output from the headphone socket will be set to maximum which could damage your hearing. |
| **Dynamic Bass** | Enables or disables the Dynamic Bass. |
| **Surround sound** | Surround sound mode can be changed as **On** or **Off**. |
| **Digital Out** | Sets digital out audio type. |

## Network Menu Contents

| | |
|---|---|
| **Network Type** | Disable or enable the wired network connection. |
| **Internet Speed Test** | Start a speed test to check your connection bandwidth. The result will be displayed on the screen when finished. |
| **Advanced Settings** | Change the IP and DNS configurations of your TV. |
| *Note: For detailed information on the options of this menu refer to the **Wired Network Connection** section.* | |

## Installation Menu Contents

| | |
|---|---|
| **Automatic channel scan (Retune)** | Displays automatic tuning options. **D. Aerial:** Searches and stores aerial DVB stations. **D. Cable:** Searches and stores cable DVB stations. **Analogue:** Searches and stores analogue stations. **Satellite:** Searches and stores satellite stations. |
| **Manual channel scan** | This feature can be used for direct broadcast entry. |
| **Network channel scan** | Searches for the linked channels in the broadcast system. **D. Aerial:** Searches for aerial network channels. **D. Cable:** Searches for cable network channels. **Satellite:** Searches for satellite network channels. |
| **Analogue fine tune** | You can use this setting for fine tuning analogue channels. This feature is not available if no analogue channels are stored and if currently watched channel is not an analogue channel. |
| **Satellite Settings** | Displays satellite settings. **Satellite list:** Displays available satellites. You can **Add**, **Delete** satellites or **Edit** satellite settings on the list. **Antenna installation:** You can change satellite antenna settings and/or start a satellite scan. |
| **Installation Settings (optional)** | Displays installation settings menu. **Standby Search (*):** Your TV will search for new or missing channels while in standby. Any new found broadcasts will be shown. **Dynamic Channel Update(*):** If this option is set as Enabled, the changes on the broadcasts such as frequency, channel name, subtitle language etc., will be applied automatically while watching. <br> *(*) Availability depends on model.* |
| **Clear Service List** | Use this setting to clear channels stored. This setting is visible only when the **Country** option is set to Denmark, Sweden, Norway or Finland. |
| **Select Active Network** | 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. |
| **Signal Information** | You can use this menu item to monitor signal related information such as signal level/ quality, network name etc for available frequencies. |
| **First time installation** | Deletes all stored channels and settings, resets TV to factory settings. |

| System Menu Contents | |
|---|---|
| **Conditional Access** | Controls conditional access modules when available. |
| **Language** | You may set a different language depending on the broadcaster and the country. |
| **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.<br>*Note: Some menu options may not be available depending on the country selection in the **First Time Installation**. Default PIN could have been 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.* |
| **Date/Time** | Sets date and time. |
| **Sources** | Edit the names, enable or disable selected source options. |
| **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. |
| **More** | Displays other setting options of the TV. |
|     **Menu Timeout** | Changes timeout duration for menu screens. |
|     **Standby LED** | If set as **Off** the standby LED will not light up when the TV is in standby mode. |
|     **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 are 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. This option can be set from 1 to 8 hours in steps of 1 hour. You can also disable this option by setting as **Off**. |
|     **Biss Key** | Biss is a satellite signal scrambling system that is used for some broadcasts. If you need to enter Biss key on a broadcast, you can use this setting. Highlight **Biss Key** and press **OK** to enter keys on the desired broadcast. |
|     **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. |

# 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 **Channels** menu options. Press the **OK** button to open the channel list. You can filter the listed channels or make advanced changes in the current list using the **Filter** and **Edit** tab options. Highlight the tab you want and press **OK** to see available options.

## Managing the Favourite Lists

You can create four different lists of your favourite channels. Enter the **TV>Channels** menu or press the **OK** button in order to open the **Channels** menu. Highlight the **Edit** tab and press **OK** to see the editing options and select the **Tag/Untag channel** option. Select the desired channel on the list by pressing the **OK** button while the channel is highlighted. You can make multiple choices. You can also use the **Tag/Untag all** option to select all channels on the list. Then press **Back/Return** button to return to the Edit menu options. Select **Add/Remove Favourites** option and press the **OK** button again. Favourite channel list options will be displayed. 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 filtering function in the **Channels** menu to filter the channels in the channel list permanently according to your preferences. For instance, using the options of the **Filter** tab, you can set one of your four favourite lists to be displayed every time the channel list is opened.

## Configuring Parental Settings

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

To display parental lock menu options, a PIN should be entered. After coding the correct PIN, **Parental** 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 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 could have been 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 model and/or on the country selection in the **First Time Installation**.*

## Electronic Programme Guide

By means of electronic programme guide function of your TV you can browse the event schedule of the currently installed channels on your channel list. It depends on the related broadcast whether this feature is supported or not.

To access the programme guide, press the **Guide** button on your remote. You can also use the **Guide** option under **TV** menu.

There are 2 different types of schedule layouts available, **Timeline Schedule** and **Now/Next**. To switch between these layouts highlight the tab with the name of the alternative layout on the upper side of the screen and press **OK**.

Use the directional buttons to navigate through the programme guide. Use the **Back/Return** button to use the tab options on the upper side of the screen.

### Timeline Schedule

In this layout option, all events of the listed channels will be displayed by timeline. You can use the directional buttons to scroll through the list of the events. Highlight an event and press **OK** to display event options menu.

Press **Back/Return** button to use available tab options. Highlight **Filter** tab and press **OK** to see the filtering options. To change the layout highlight **Now/Next** and press **OK**. You can use the **Previous Day** and **Next Day** options to display the events of the previous and next day.

Highlight **Extras** tab and press **OK** to access below options.

  **Highlight Genre:** Displays **Highlight Genre** menu. Select a genre and press **OK**. The events in the programme guide matching the selected genre will be highlighted.
  **Guide Search:** Displays searching options. Using these options, you can search the programme guide database in accordance with the selected criteria. Matching results will be listed.
  **Now:** Displays current event of the highlighted channel.
  **Zoom:** Highlight and press **OK** to see events in a wider time interval.

### Now/Next Schedule

In this layout option, only the current and next events of the listed channels will be displayed. You can use the directional buttons to scroll through the list of the events.

Press **Back/Return** button to use available tab options. Highlight **Filter** tab and press **OK** to see the filtering

options. To change the layout highlight **Timeline Schedule** and press **OK**.

## Event Options

Use the directional buttons to highlight an event and press **OK** button to display **Options** menu. The following options are available.

**Select Channel:** Using this option, you can switch to the selected channel in order to watch it. The programme guide will be closed.

**More Info:** Display detailed information on the selected event. Use up and down directional buttons to scroll through the text.

**Set Timer on Event / Delete Timer on Event:** Select **Set Timer on Event** option and press **OK**. You can set timers for future events. To cancel an already set timer, highlight that event and press the **OK** button. Then select **Delete Timer on Event** option. The timer will be cancelled.

*Notes: You cannot switch to any other channel while there is an active timer on the current channel.*

*It is not possible to set timer for two or more individual events at the same time interval.*

### Teletext Services (where available)

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.

### MHEG Teletext

With digital terrestrial broadcasting (DVB-T), in addition to pictures and sound, you can also view digital teletext. Digital teletext is sometimes broadcast at the same time with the normal broadcasting.

• Press the **Text** or **Red** button

• The digital teletext information appears

• Operate it with the coloured buttons, directional buttons and **OK** button

The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on digital teletext screen. Press the **Text** button to returs 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 **Settings>System** and then **More**. Navigate to **Software upgrade** and press the **OK** button. Then 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 is set to **Enabled** and if the TV is connected to an aerial signal or to Internet. 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.*

*All updates are automatically controlled. If a manual search is carried out and no software is found then this is the current version.*

### 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 may be 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.

## The Image is not centered in VGA source

To have your TV automatically center the image, enter the **PC Position** menu in **Picture** menu, highlight **Autoposition** and press **OK**. Wait for it to finish. In order to set the position of the image manually you can use **H Position** and **V Position** options. Select the desired option and use Left and Right directional buttons on the remote to set.

### PC Input Typical Display Modes

The following table is an illustration of some of the typical video display modes. Your TV may not support all resolutions.

| Index | Resolution | Frequency |
|-------|------------|-----------|
| 1 | 640x480 | 60 Hz |
| 2 | 800x600 | 56 Hz |
| 3 | 800x600 | 60 Hz |
| 4 | 1024x768 | 60 Hz |
| 5 | 1024x768 | 66 Hz |
| 6 | 1280x768 | 60 Hz |
| 7 | 1280x960 | 60 Hz |
| 8 | 1280x1024 | 60 Hz |
| 9 | 1360x768 | 60 Hz |
| 10 | 1400x1050 | 60 Hz |
| 11 | 1600x1200 | 60 Hz |
| 12 | 1920x1080 | 60 Hz |

### AV and HDMI Signal Compatibility

| Source | Supported Signals | | Available |
|--------|-------------------|---|-----------|
| **EXT (SCART)** | PAL 50/60 | | O |
| | NTSC 60 | | O |
| | RGB 50 | | O |
| | RGB 60 | | O |
| **Side AV** | PAL 50/60 | | O |
| | NTSC 60 | | O |
| **PC/YPbPr** | 480I, 480P | 60Hz | O |
| | 576I, 576P | 50Hz | O |
| | 720P | 50Hz,60Hz | O |
| | 1080I | 50Hz,60Hz | O |
| | 1080P | 50Hz,60Hz | O |
| **HDMI** | 480I | 60Hz | O |
| | 480P | 60Hz | O |
| | 576I, 576P | 50Hz | O |
| | 720P | 50Hz,60Hz | O |
| | 1080I | 50Hz,60Hz | O |
| | 1080P | 24Hz, 25Hz 30Hz, 50Hz, 60Hz | O |

**(X: Not Available, O: Available)**

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

| Media | Extension | Format | Notes |
|-------|-----------|--------|-------|
| **Video** | .mpg, .mpeg | MPEG1-2 | MPEG1: 768x576 @ 30P, MPEG2:1920x1080 @ 30P |
| | .vob | MPEG2 | 1920x1080 @ 30P |
| | .mp4 | MPEG4, Xvid, H.264 | |
| | .mkv | H.264, MPEG4,VC-1 | |
| | .avi | MPEG2, MPEG4, Xvid, H.264 | |
| | .flv | H.264/VP6/ Sorenson | H.264/VP6: 1920x1080 @ 30P<br>Sorenson: 352x288 @ 30P |
| | .mp4, .mov, .3gpp, .3gp, MPEG transport stream, .ts,.trp, .tp, .mkv | HEVC/H.265 | 1080P@60fps - 50Mbps |
| | .3gp | MPEG4 , H.264 | 1920x1080 @ 30P |
| **Audio** | .mp3 | MPEG1 Layer 2/3 | Layer2: 32Kbps ~ 448Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz, 16kHz, 22.05kHz, 24kHz (Sampling rate)<br>Layer3: 32Kbps ~ 320Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz, 16kHz, 22.05kHz, 24kHz, 8kHz, 11.025kHz, 12kHz (Sampling rate) |
| | (works only with video files) | AC3 | 32Kbps ~ 640Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz (Sampling rate) |
| | | AAC | 16Kbps ~ 576Kbps (Bit rate) / 48kHz, 44.1kHz, 32kHz, 24kHz, 22.05kHz, 16kHz, 12kHz, 11.025kHz, 8kHz (Sampling rate) |
| | | EAC3 | 32Kbps ~ 6Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz (Sampling rate) |
| | | LPCM | Unsigned 8bit PCM, Signed/Unsigned 16bit PCM (big / little endian), 24bit PCM (big endian), DVD LPCM 16/20/24bit (Bit rate)<br>/ 6kHz, 8kHz, 11.025kHz, 12kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz , 88.2kHz, 96kHz, 176.4kHz, 192kHz (Sampling rate) |
| | | IMA-ADPCM/ MS-ADPCM | 384Kbps (Bit rate) / 8KHz ~ 48Khz (Sampling rate) |
| | | LBR | 32Kbps ~ 96Kbps (Bit rate) / 32kHz, 44.1kHz, 48kHz (Sampling rate) |
| **Picture** | .jpeg | Baseline | Resolution(WxH): 17000x10000 |
| | | Progressive | Resolution(WxH): 4000x4000 |
| | .bmp | - | Resolution(WxH): 5760x4096 |
| **Subtitle** | .sub, .srt | - | - |

## 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.

| | 56Hz | 60Hz | 66Hz | 70Hz | 72Hz | 75Hz |
|---|---|---|---|---|---|---|
| 640x400 | | | | x | | |
| 640x480 | | x | x | | x | x |
| 800x600 | x | x | | x | x | x |
| 832x624 | | | | | | x |
| 1024x768 | | x | x | x | x | x |
| 1152x864 | | x | | x | | x |
| 1152x870 | | | | | | x |
| 1280x768 | | x | | | | x |
| 1360x768 | | x | | | | |
| 1280x960 | | x | | | | x |
| 1280x1024 | | x | | | | x |
| 1400x1050 | | x | | | | x |
| 1440x900 | | x | | | | x |
| 1600x1200 | | x | | | | |
| 1680x1050 | | x | | | | |
| 1920x1080 | | x | | | | |

## 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.
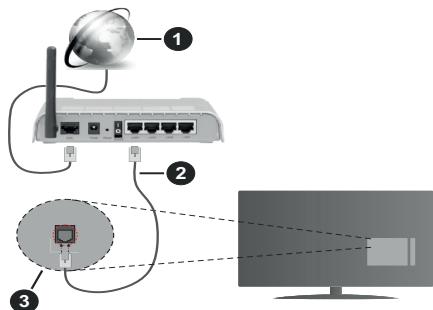


1. Broadband ISP connection
2. LAN (Ethernet) cable
3. LAN input on the rear side of the TV

**To configure wired settings refer to the Network section in the Settings menu.**

- You might be able to connect your TV to your LAN depending on your network's configuration. In such a case, use an Ethernet cable to connect your TV directly to the network wall outlet.
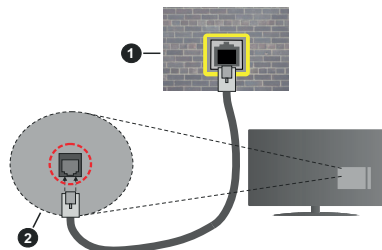


1. Network wall socket
2. LAN input on the rear side of the TV

### Configuring Wired Device Settings

### 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.

### 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.

### 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. Highlight **Save** and press the **OK** button to save settings 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.

### DVB functionality information

This DVB receiver is only suitable for use in the country which it was designed to be used in.

Although this DVB receiver conforms to the latest DVB specifications at the time of manufacture, we cannot guarantee compatibility with future DVB transmissions due to changes that may be implemented in broadcast signals and technologies.

Some digital television functions may not be available in all countries.

We continually strive to improve our products; therefore, specifications may change without prior notice.
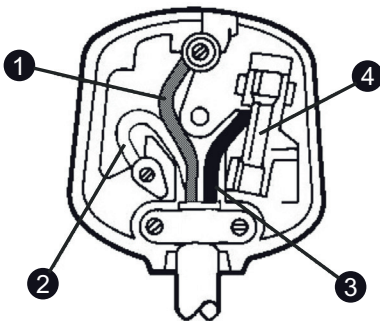
For advice on where to purchase accessories, please contact the store where you purchased your equipment.

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.

## MAINS (AC) OPERATION

The wires in the mains lead are coloured in accordance with the following code :



1. Green&Yellow (Earth) (if there is earth cable)
2. Blue (Neutral)
3. Brown (Live)
4. Fuse

**IMPORTANT**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured brown or red must be connected to the terminal which is marked with the letter L or coloured Red.
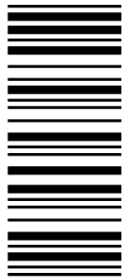
For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 5A 250VAC fuse).

**CAUTION**

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**SAFETY PRECAUTION**

THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.