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## Important safety precautions

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

**Don't operate your TV in extreme ambient conditions as this may cause damage to your TV.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

## IMPORTANT - Please read these instructions fully before installing or operating

### Preparation

Place the device on a solid even surface. For ventilation, leave a free space of at least 10 cm all around the set. To prevent any fault and unsafe situations, do not place any objects on top of the set. Use this device in moderate climates.

**Operation temperature and operation humidity:** 0°C up to 40°C, 85% rel. humidity max. (not blocking ventilation openings).

### Intended Use

This device is used to receive and display TV programmes. The different connection options make an additional expansion of the reception and display sources possible (various external devices). This device is only suitable for dry interior use. This appliance is intended solely for private domestic use and may not be used for industrial and commercial purposes. We exclude liability in principle, if the device is not used as intended, or unauthorized modifications have been made. To operate your TV in extreme ambient conditions may cause the damage of the device.

**This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

**Children may not recognize dangers. The swallowing of batteries can be fatal. Keep batteries always out of reach of small children. If a battery is swallowed, seek immediate medical attention. Keep the packaging films out of reach of children, there is a risk of suffocation.**

\*\*\*\*\*

**Please read the following recommended safety precautions carefully for your safety.**

### SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

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

\*\*\*\*\*

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

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

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

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

**DO** route the mains lead so that it is not likely to be walked on, crushed, chafed, or subjected to excessive wear and tear or heat.

\*\*\*\*\*

**DON'T** remove any fixed cover as this may expose dangerous voltages.

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

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

**DON'T** place hot objects or naked flame sources such as lighted candles or nightlights on, or close to

equipment. High temperatures can melt plastic and lead to fires.

**DON'T** use makeshift stands and **NEVER** fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

**DON'T** listen to headphones at high volume, as such use can permanently damage your hearing.

**DON'T** leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch, on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

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

### **ABOVE ALL**

--- **NEVER let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;**

--- **NEVER guess or take chances with electrical equipment of any kind**

--- **It is better to be safe than sorry!**

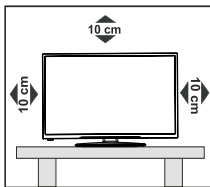
### **Power source**

- The TV should be operated only from a 220-240 V AC, 50 Hz outlet.

**⚠ WARNING: Do not leave your TV in standby or operating mode when you leave your house.**

### **Positioning the TV**

- For ventilation, please leave a clear space of at least 10cm all around the TV.



- **Do not** block the ventilation openings.
- **Do not** place the TV on sloping or unstable surfaces, the TV may tip over.
- To prevent damage to the TV, **do not** place any objects on top of the TV.

### **Power cord and plug**

- Do not place the set, a piece of furniture, etc. on the power cord (mains lead) or pinch the cord. Handle the power cord by the plug. Do not pull the plug by

holding its neck, as this could result in damage to the plug. Do not unplug the appliance by pulling from the power cord and never touch the power cord with wet hands as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be placed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electric shock. When it is damaged and needs to be replaced, it should be done by qualified personnel.

- This TV receiver is supplied with a moulded mains plug. The mains plug must not be cut off, as it may contain a special radio interference filter, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate safety approved extension lead or consult your dealer.
- Observe the manufacturers instructions when connecting extension leads to the set. Check the fuse rating on the new plug; this should be fitted with a 5 Amp fuse which conforms to either ASTA or BSI (BS1362) approvals, these are easily identifiable by either the ⚡ or ⚡ symbols. If you are in any doubt about the installation of an extension lead, please consult a competent electrician.

### **Moisture and Water**

- **Do not** use this TV in a humid or damp place (avoid bathrooms, the sink in the kitchen, and near the washing machine).
- **Do not** expose this TV to rain or water.
- **Do not** place objects filled with liquids, such as flower vases, on top of the TV. Avoid from dripping or splashing.
- If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

### **Ventilation**

- The slots and openings on the TV set are intended for ventilation and to ensure reliable operation.
- To prevent overheating, these openings must not be blocked or covered in anyway.

### **Heat sources and Flames**

- **Do not** expose the TV to direct sunlight or other heat sources.
- The TV should not be placed near to open flames and sources of intense heat such as an electric heater.
- Ensure that no open flame sources, such as lit candles, are placed on top of the TV.



### **Headphone Volume**

- Excessive sound pressure from earphones and headphones can cause hearing loss, please take care.



## Wall Mounting

- To prevent injury, this TV must be securely attached to the wall in accordance with the installation instructions (if the option is available).


## LCD Screen

- Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point. Please note that this does not affect the performance of your product.
- Take care not to scratch the screen with fingernails or other hard objects.

## Cleaning


- Before cleaning, unplug the TV from the wall socket.
- **Do not** use liquid or aerosol cleaners. Only use a soft, dry cloth.

## Batteries

 **WARNING:** *Incorrect installation of batteries may cause battery leakage and corrosion, resulting in damage to the remote control.*

- **Do not** mix old and new batteries, or batteries of different types.
- **Do not** dispose of batteries in a fire.
- **Do not** dispose of batteries with normal household waste, take to a local recycling centre.



 **CAUTION:** *Insert the batteries / rechargeable batteries in the correct polarity. Don't try to recharge non rechargeable batteries and under no circumstances throw them into fire. Danger of explosion. Do not use unequal batteries (old and new, Alkaline and carbon, etc.) simultaneously. If you will not use the device for a long time, remove the batteries and store the device in a dry and dust free place. Improper use of batteries may cause an explosion or leakage. If the batteries have leaked, use gloves and clean the appliance thoroughly with a dry cloth! Batteries should not be exposed to heat, such as sunshine, fire or the like.*

## Replacement Parts

When replacement parts are required, make sure that the service technician has used replacement parts, which are specified by the manufacturer or have the same specifications as the original one. Unauthorised substitutions may result in fire, electrical shock or other hazards.

## Taking out of service and storing

Unplug the TV from the mains and pack the TV in an appropriate cardboard box. Remove the batteries from the remote control and pack the remote control with the TV set.



**NOTE:** *The TV set should be stored in a dry and dust-free room.*

## CAUTION

Do not put your fingers in the middle between the TV and stand, especially when you carry the TV, as they may be injured.

## Connection to a Television Distribution System from Tuner

Device 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 cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11).

## Symbols in this Instruction Book

The following symbols are used in the Instruction Book as a marker for restrictions and precautions and safety instructions. Note such information for security reasons.

### **WARNING**

If you do not pay attention to such a marked warning, it can cause serious injury or death. Note these warnings strictly, in order to ensure a safe operation.

### **CAUTION**

Such a precaution is marked, you should take up or note, to avoid injury or property damage. Note these instructions strictly, in order to ensure a safe operation.

### **IMPORTANT**

Warnings on the appliance and restrictions are displayed like this. Read this information strictly in order to operate the system correctly and avoid damage.

### **NOTE**

Information about the operation and additional explanations are marked like this. To be aware of such information is recommended to ensure that the functions can be used optimally.

The illustrations and the OSD in this operation manual are for explanation purposes and may vary slightly from the actual operations.

Technical experts are available 7 days a week

- **Simple help and advice on setting up your digital equipment (image).**
- **Guidance on connecting other devices to your television such as a DVD player, Sky, home cinema system or a games console.**
- **Order spare parts, including that lost remote control.**
- **Any other technical issues you may need assistance with.**

**Call us today: 0345 604 0105**

Local call rates applies\*

**Lines open 9am-8pm Monday to Saturday and 10am-4pm Sunday**

\*Calls to Argos enquiry lines may attract a charge and set up fee from residential lines depending on your call plan/tariff. Mobile and other providers costs may vary, see [www.bt.com/pricing](http://www.bt.com/pricing) for details.

For Security and training purposes, telephone calls to and from customer service centres maybe recorded and monitored. Calls from Republic of Ireland will attract international call charges.

## 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.

## Features

- Remote controlled colour TV
- Fully integrated digital terrestrial TV (DVB-T2)
- 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

## Accessories Included

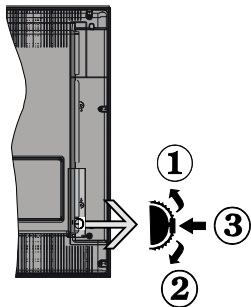
- Remote Control
- Batteries: 2 x AAA
- Instruction Book
- Quick Start Guide

## Standby Notifications

If the TV does not receive any input signal (e.g. from an aerial or HDMI source) for 5 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.

If the TV is on and it isn't being operated for a while it will go into standby. When you next switch-on, the following message will be displayed. "**TV switched to stand-by mode automatically because no operation was made 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, 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 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 down and hold it down for a few seconds, the TV will turn into standby mode.

### Notes:

- If you turn the TV off, this circle starts again beginning with the volume setting.
- Main menu OSD cannot be displayed via control button.

### Operation with the Remote Control

Press the **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** 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 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 **Volume +/-** and **Programme +/-** buttons on the remote.

### Inserting the Batteries into the Remote

Lift the cover on the back of the remote gently. Insert two **AAA** batteries. Make sure the (+) and (-) signs match (observe correct polarity). Place the cover back on.

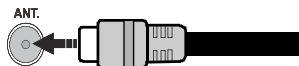


### Connect Power

**IMPORTANT:** The TV set is designed to operate on **220-240V AC, 50 Hz** socket. 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 TV plug to the **AERIAL INPUT (ANT)** socket located on the back of the TV.



### Notification

#### TRADEMARK ACKNOWLEDGMENT

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



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





## Disposal information

### Instructions for waste disposal:

Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children. Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used battery in an environment friendly manner. Find out about the legal regulations which apply in your area.

Don't try to recharge batteries. Danger of explosion. Replace batteries only with the same or equivalent type.

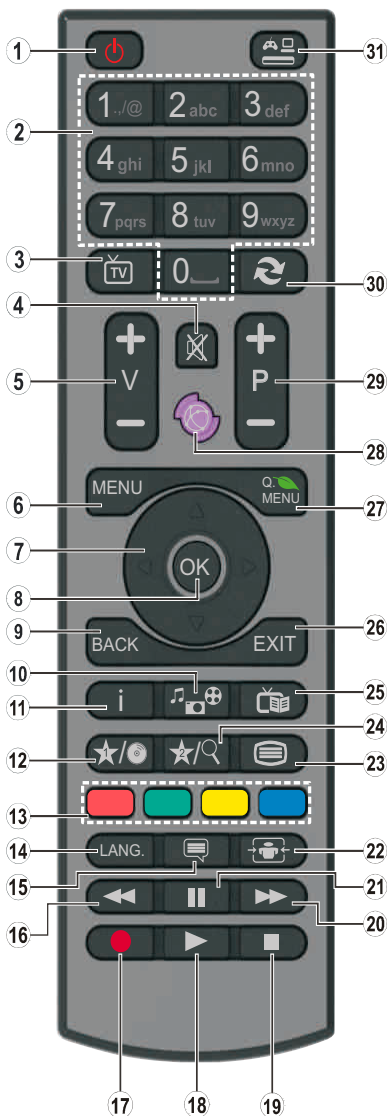
### Information for Users in European Union Countries

The mark shown on the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries as unsorted municipal waste, but use the return and collection systems available. If the batteries or accumulators included with this equipment display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium or more than, 0.004% Lead.



## Specification

<b>TV Broadcasting</b>	PAL BG/DK/II' SECAM BG/DK
<b>Receiving Channels</b>	VHF (BAND I/III) - UHF (BAND U) - HYPERBAND
<b>Digital Reception</b>	Fully integrated digital terrestrial TV (DVB-T) (DVB-T2 compliant)
<b>Number of Preset Channels</b>	1.000
<b>Channel Indicator</b>	On Screen Display
<b>RF Aerial Input</b>	75 Ohm (unbalanced)
<b>Operating Voltage</b>	220-240V AC, 50Hz.
<b>Audio</b>	German+Nicam Stereo
<b>Audio Output Power (WRMS.) (10% THD)</b>	2 x 2,5
<b>Power Consumption (W)</b>	45
<b>Weight (Kg)</b>	3,30
<b>TV Dimensions DxLxH (with foot) (mm)</b>	134 x 473 x 328
<b>TV Dimensions DxLxH (without foot) (mm)</b>	55 x 473 x 294
<b>Display</b>	20"
<b>Operation temperature and operation humidity</b>	0°C up to 40°C, 85% humidity max
<b>Vesa</b>	75 x 75 M4





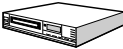








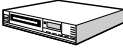















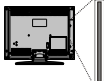





## (\*) MY BUTTON 1 & MY BUTTON 2:


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.

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. **Directional 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. **Info:** Displays information about on-screen content, shows hidden information (reveal - in TXT mode)
12. **My button 1 (\*)**
13. **Coloured Buttons:** Follow the on-screen instructions for coloured button functions
14. **Language:** Switches among sound modes (analogue TV), displays and changes audio/subtitle language (digital TV, where available)
15. **Subtitles:** Turns subtitles on and off (where available)
16. **Rapid reverse:** Moves frames backwards in media such as movies
17. No function
18. **Play:** Starts to play selected media
19. **Stop:** Stops the media being played
20. **Rapid advance:** Moves frames forward in media such as movies
21. **Pause:** Pauses the media being played
22. **Screen:** Changes the aspect ratio of the screen
23. **Text:** Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
24. **My button 2 (\*)**
25. **EPG (Electronic programme guide):** Displays the electronic programme guide
26. **Exit:** Closes and exits from displayed menus or returns to previous screen
27. **Quick Menu:** Displays a list of menus for quick access
28. No function
29. **Programme +/-**
30. **Swap:** Quickly cycles between previous and current channels or sources
31. **Source:** Shows all available broadcast and content sources

## Connections

Connector	Type	Cables	Device
	Scart Connection (back)		
	VGA Connection (back)		
<b>SIDE AV</b> 	PC/YPbPr Audio Connection (side)	 YPbPr/PC Audio Cable (not supplied)	
	HDMI Connection (back)		
<b>SPDIF</b> 	SPDIF (Coaxial Out) Connection (back)		
<b>SIDE AV</b> 	Side AV (Audio/Video) Connection (side)	 AV Cable (not supplied)	
<b>HEADPHONE</b> 	Headphone Connection (side)		
<b>YPBPR</b> 	YPbPr Video Connection (back)	 PC to YPbPr Connection Cable (not supplied)	
	USB Connection (side)		
	CI Connection (side)		
<b>LAN</b> 	Ethernet Connection (back)	 LAN / Ethernet Cable	

 **NOTE:** When connecting a device via the YPbPr or Side AV input, you must use the connection cables to enable connection. See the illustrations on the left side. | You can use YPbPr to VGA cable (not supplied) 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 (not supplied) for audio connection. | If an external device is connected via the SCART socket, the TV will automatically switch to AV 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 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 USB input of your TV supports devices up to 500mA. Connecting devices that have current value above 500mA may damage your TV. | By connecting an HDMI cable to your TV, you have to use only a shielded HDMI cable to guarantee a sufficient immunity against parasitic frequency radiation.



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.

**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.

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.

## 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.

<b>Loop/Shuffle Mode Operation</b>	
Start playback with the <b>Play</b> button and activate 	All files in the list will be continuously played in original order
Start playback with the <b>OK</b> button and activate 	The same file will be played continuously (repeat)
Start playback with the <b>Play</b> button and activate 	All files in the list will be played once in random order
Start playback with the <b>Play</b> button and activate 	All files in the list will be continuously played in the same random order.

## Custom Boot Up Logo

You can personalize your TV and see your favorite image or photo on the screen each time your TV boots up. To do this, copy your favorite image files into a USB disk and open them from the **Media Browser** menu. When you have chosen the desired image, highlight it and press **OK** to view it in full screen. Press **OK** again to choose the image as custom logo. A confirmation message will be displayed. Select **Yes** and press **OK** again. If the image is suitable(\*) you will see it on the screen during the TV's next boot up.

**Note:** If you perform a First Time Installation the TV will return to using the default logo, if any.

(\*) Images should have an aspect ratio of 16:9 and they should be in .jpg, .jpeg or .jpe file formats. Only files with sizes no greater than 300KB are supported. The image cannot be set as boot logo, which's resolution doesn't appear on the info banner.

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

When ARC is active, TV does not mute its other audio outputs automatically. So you need to decrease TV volume to zero manually, if you want to hear audio from connected audio device only (same as other 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**.

## E-Manual (optional)

You can find instructions for your TV's features in the E-Manual.

To use E-Manual, press to the **Info** button while main menu is displayed on the screen or press **Quick Menu** button, select **Information Booklet** and press **OK**.

By using the directional buttons select a desired category. Every category includes different topics. Select a topic and press **OK** to read instructions.

To close the E-Manual screen press the **Exit** or **Menu** button.

**Note:** The contents of the E-Manual may vary according to the model.

# TV Menu Contents

## System - Picture Menu Contents

<b>Mode</b>	You can change the picture mode to suit your preference or requirements. Picture mode can be set to one of these options: <b>Cinema, Game, Sports, Dynamic</b> and <b>Natural</b> .
<b>Contrast</b>	Adjusts the light and dark values on the screen.
<b>Brightness</b>	Adjusts the brightness values on the screen.
<b>Sharpness</b>	Sets the sharpness value for the objects displayed on the screen.
<b>Colour</b>	Sets the colour value, adjusting the colours.
<b>Energy Saving</b>	For setting the <b>Energy Saving</b> to <b>Custom, Off, Minimum, Medium, Maximum, Auto, Screen off</b> . <b>Note:</b> Available options may differ depending on the selected <b>Mode</b> .
<b>Backlight</b>	This setting controls the backlight level. The backlight function will be inactive if the <b>Energy Saving</b> is set to an option other than <b>Custom</b> .
<b>Advanced Settings</b>	
<b>Dynamic Contrast</b>	You can change the dynamic contrast ratio to desired value.
<b>Noise Reduction</b>	If the signal is weak and the picture is noisy, use the <b>Noise Reduction</b> setting to reduce the amount of noise.
<b>Colour Temp</b>	Sets the desired colour temperature value. <b>Cool, Normal, Warm</b> and <b>Custom</b> options are available.
<b>White Point</b>	If the <b>Colour Temp</b> option is set as <b>Custom</b> , this setting will be available. Increase the 'warmth' or 'coolness' of the picture by pressing Left or Right buttons.
<b>Picture Zoom</b>	Sets the desired image size format.
<b>Film Mode</b>	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.
<b>Skin Tone</b>	Skin tone can be changed between -5 and 5.
<b>Colour Shift</b>	Adjust the desired colour tone.
<b>HDMI Full Range</b>	While watching from a HDMI source, this feature will be visible. You can use this feature to enhance blackness in the picture.
<b>PC Position</b>	
<b>Autoposition</b>	Automatically optimizes the display. Press OK to optimize.
<b>H Position</b>	This item shifts the image horizontally to the right hand side or left hand side of the screen.
<b>V Position</b>	This item shifts the image vertically towards the top or bottom of the screen.
<b>Dot Clock</b>	Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.
<b>Phase</b>	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.
<b>Reset</b>	Resets the picture settings to factory default settings (except <b>Game</b> mode).
<i>While in VGA (PC) mode, some items in <b>Picture</b> menu will be unavailable. Instead, VGA mode settings will be added to the <b>Picture Settings</b> while in PC mode.</i>	

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

System - Settings 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 <b>Menu Lock</b> , <b>Maturity Lock</b> , <b>Child Lock</b> or <b>Guidance</b> in this menu. You can also set a new <b>PIN</b> or change the <b>Default CICAM PIN</b> using the related options. <i>Note: Some menu options may not be available depending on the country selection in the <b>First Time Installation</b>. Default PIN can be set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the <b>First Time Installation</b> use the PIN that you have defined.</i>
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.
	<b>Hard of Hearing</b> Enables any special feature sent from the broadcaster.
	<b>Audio Description</b> A narration track will be played for the blind or visually impaired audience. Press <b>OK</b> to see all available <b>Audio Description</b> menu options. This feature is available only if the broadcaster supports it.
More	Displays other setting options of the TV.
	<b>Menu Timeout</b> Changes timeout duration for menu screens.
	<b>Software Upgrade</b> Ensures that your TV has the latest firmware. Press <b>OK</b> to see the menu options.
	<b>Application Version</b> Displays current software version.
	<b>Subtitle Mode</b> This option is used to select which subtitle mode will be on the screen ( <b>DVB</b> subtitle / <b>Teletext</b> subtitle) if both is available. Default value is <b>DVB</b> subtitle. This feature is available only for the country option of Norway.
	<b>Auto TV OFF</b> Sets the desired time for the TV to automatically go into standby mode when not being operated.
	<b>Store Mode</b> Select this mode for store display purposes. Whilst <b>Store Mode</b> is enabled, some items in the TV menu may not be available.
	<b>Power Up Mode</b> This setting configures the power up mode preference. <b>Last State</b> and <b>Standby</b> options are available.
	<b>CEC</b> With this setting you can enable and disable CEC functionality completely. Press Left or Right button to enable or disable the feature.
	<b>CEC Auto Power On</b> This function allows the connected HDMI-CEC compatible device to turn on the TV and switch to its input source automatically. Press <b>Left</b> or <b>Right</b> button to enable or disable the feature.
	<b>Speakers</b> To hear the TV audio from the connected compatible audio device set as <b>Amplifier</b> . You can use the remote control of the TV to control the volume of the audio device.



<b>Installation Menu Contents</b>	
<b>Automatic channel scan (Retune)</b>	Displays automatic tuning options. <b>Digital Aerial:</b> Searches and stores aerial DVB stations. <b>Analogue:</b> Searches and stores analogue stations.
<b>Manual channel scan</b>	This feature can be used for direct broadcast entry.
<b>Network channel scan</b>	Searches for the linked channels in the broadcast system. <b>Digital Aerial:</b> Searches for aerial network channels.
<b>Analogue fine tune</b>	You can use this setting for fine tuning analogue channels. This feature is not available if no analogue channels are stored.
<b>First time installation</b>	Deletes all stored channels and settings, resets TV to factory settings.

## 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. This changes will not remain the next time the **Channel list** is opened.

### 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.

**Maturity Lock:** If this option is set, TV gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

*Note: If the country option in the **First Time Installation** is set as France, Italy or Austria, **Maturity Lock**'s value will be set to 18 as default.*

**Child Lock:** If this option is set to **ON**, the TV can only be controlled by the remote control. In this case the control buttons on the TV will not work.

**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.

**Select Genre (Subtitles button):** Displays **Select 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 (Swap button):** Displays current event of the highlighted channel.

#### 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.

## Now/Next Schedule

**Navigate (Directional buttons):** Press the **Directional buttons** to navigate through the channels and events.

**Options (OK button):** Displays event options.

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

**Filter (Blue button):** Views filtering options.

### Event Options

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

**Select Channel:** Using this option, you can switch to the selected channel.

**Set Timer on Event / Delete Timer on Event:** After you have selected an event in the EPG menu, press the **OK** button. Select **Set Timer on Event** option and press the **OK** button. You can set a timer 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 or source 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

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.

### 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 confirm the question asking about rebooting the TV by pressing the **OK** to continue with the reboot operation.

## 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 wall outlet. Check if batteries are exhausted. Press the Power button on the TV.

#### Poor picture

- Check if you have selected the correct TV system.
- Low signal level can cause picture distortion. Please check antenna access.
- Check if you have entered the correct channel frequency if you have done manual tuning.
- The picture quality may degrade when two devices are connected to the TV at the same time. In such a case, disconnect one of the devices.

#### No picture

- This means your TV is not receiving any transmission. 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 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.

#### Input sources - can not be selected

- If you cannot select an input source, it is possible that no device is connected. If not;
- Check the AV cables and connections if you are trying to switch to the input source dedicated to the connected device.

## To Program Your SKY Remote For Your TV

1. Make sure your SKY box is connected to your TV
2. Turn your TV and SKY box on
3. Press TV on your SKY remote control handset
4. Hold down SELECT and the RED button together for about two seconds, until the red light on the SKY remote blinks twice.
5. Key in 0065 on your SKY remote. The light on the SKY remote should blink twice
6. Press the STANDBY button on your SKY remote control. Your TV should now switch off.
7. Press SELECT again. The light on your SKY remote control should now blink twice

You should now be able to control some basic functions on your TV from your SKY remote control (e.g. volume up/down, programme up/down).

## 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	640x350	85Hz
2	640x400	70Hz
3	640x480	60Hz
4	640x480	66Hz
5	640x480	72Hz
6	640x480	75Hz
7	640x480	85Hz
8	800x600	56Hz
9	800x600	60Hz
10	800x600	70Hz
11	800x600	72Hz
12	800x600	75Hz
13	800x600	85Hz
14	832x624	75Hz
15	1024x768	60Hz
16	1024x768	66Hz
17	1024x768	70Hz
18	1024x768	72Hz
19	1024x768	75Hz
20	1024x768	85Hz
21	1152x864	60Hz
22	1152x864	70Hz
23	1152x864	75Hz
24	1152x864	85Hz
25	1152x870	75Hz
26	1280x768	60Hz
27	1360x768	60Hz
28	1280x768	75Hz
29	1280x768	85Hz
30	1280x960	60Hz
31	1280x960	75Hz
32	1280x960	85Hz
33	1280x1024	60Hz
34	1280x1024	75Hz
35	1280x1024	85Hz
36	1400x1050	60Hz
37	1400x1050	75Hz
38	1400x1050	85Hz
39	1440x900	60Hz
40	1440x900	75Hz
41	1600x1200	60Hz
42	1680x1050	60Hz
43	1920x1080	60Hz
44	1920x1200	60Hz

## AV and HDMI Signal Compatibility

Source	Supported Signals	Available	
EXT (SCART)	PAL	O	
	SECAM	O	
	NTSC4.43	O	
	NTSC3.58	O	
	RGB 50/60	O	
Side AV	PAL	O	
	SECAM	O	
	NTSC4.43	O	
	NTSC3.58	O	
YPbPr	480i, 480p	60Hz	O
	576i, 576p	50Hz	O
	720p	50Hz,60Hz	O
	1080i	50Hz,60Hz	O
HDMI1 HDMI2	480i, 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 Video File Formats for USB Mode

Extension	Video Codec	SPEC (Resolution) & Bit Rate
.dat, vob	MPEG1/2	1080P@30fps - 40 Mbps
.mpg, .mpeg	MPEG1/2, MPEG4	
.ts, .trp, .tp	MPEG1/2, H.264, AVS, MVC	<b>H.264:</b> 1080Px2@30fps - 62.5 Mbps, 1080P@60fps - 62.5 Mbps <b>MVC:</b> 1080P@30fps - 62.5 Mbps <b>Other:</b> 1080P@30fps - 40Mbps
.mp4, .mov, .3gpp, .3gp	MPEG1/2, MPEG4, H.263, H.264, Motion JPEG	<b>H.264:</b> 1080Px2@30fps - 62.5 Mbps, 1080P@60fps - 62.5 Mbps <b>Motion JPEG:</b> 640x480@30fps - 10 Mbps <b>Other:</b> 1080P@30fps - 40 Mbps
.avi	MPEG1/2, MPEG4, Sorenson H.263, H.263, H.264, WMV3, Motion JPEG	
.mkv	MPEG1/2, MPEG4, H.263, H.264, WMV3, Motion JPEG	
.asf	Sorenson H.263, H.264, WMV3, Motion JPEG	
.flv	WMV3	
.swf	RV30/RV40	1080P@30fps - 40 Mbps
.wmv		

## Supported Picture File Formats for USB Mode

Image	Photo	Resolution (width x height)	Remark
JPEG	Base-line	15360x8640	The limitation of max resolution depends on DRAM size
	Progressive	1024x768	
PNG	non-interlace	9600x6400	
	interlace	1200x800	
BMP		9600x6400	

## Supported Audio File Formats for USB Mode

Extension	Audio Codec	Bit Rate	Sample rate
.mp3,	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
.avi	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
G711 A/mu-law	64Kbps ~ 128Kbps	8KHz	
.asf	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
.mkv, .mka	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
	VORBIS		Up to 48KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
FLAC	< 1.6Mbps	8KHz ~ 96KHz	
.ts, .trp, .tp, .dat, .vob, .mpg, .mpeg	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz

Extension	Audio Codec	Bit Rate	Sample rate
.wav	MPEG1/2 Layer1	32Kbps ~ 448Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
.3gpp, .3gp, .mp4, .mov, .m4a	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
	VORBIS		Up to 48KHz
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
.flv	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
.ac3	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
.swf	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
.ec3	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
.rm, .rmvb, .ra	AAC, HEAAC		8KHz ~ 48KHz
	LBR (cook)	6Kbps ~ 128Kbps	8KHz, 11.025KHz, 22.05KHz, 44.1KHz
.wma, .wmv	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
.webm	VORBIS		Up to 48KHz

### Supported Subtitle File Formats for USB Mode

Internal Subtitles		
Extension	Container	Subtitle Code
dat, mpg, mpeg, vob	MPG, MPEG	DVD Subtitle
ts, trp, tp	TS	DVB Subtitle
mp4	MP4	DVD Subtitle UTF-8 Plain Text
mkv	MKV	ASS SSA UTF-8 Plain Text VobSub DVD Subtitle

External Subtitles		
Extension	Subtitle Parser	Remark
.srt	Subrip	
.ssa/ .ass	SubStation Alpha	
.smi	SAMI	
.sub	SubViewer MicroDVD DVDSubtitleSystem Subldx (VobSub)	SubViewer 1.0 & 2.0 Only
.txt	TMPlayer	



## 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				<input checked="" type="checkbox"/>		
640x480		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
800x600	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
832x624						<input checked="" type="checkbox"/>
1024x768		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1152x864		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
1152x870						<input checked="" type="checkbox"/>
1280x768		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
1360x768		<input checked="" type="checkbox"/>				
1280x960		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
1280x1024		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
1400x1050		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
1440x900		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
1600x1200		<input checked="" type="checkbox"/>				
1680x1050		<input checked="" type="checkbox"/>				
1920x1080		<input checked="" type="checkbox"/>				
1920x1200		<input checked="" type="checkbox"/>				

# DVD Mode

## Safety Information

### CAUTION

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure. Be sure to operate the player correctly as instructed.

**CLASS 1  
LASER PRODUCT**

### RISK OF ELECTRIC SHOCK

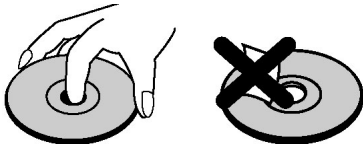
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### Notes on Discs

#### On handling discs

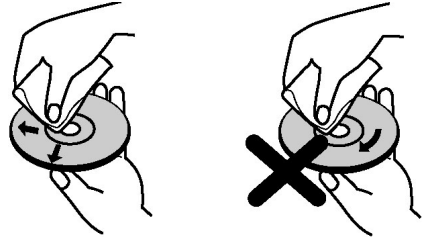
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- After playing, store the disc in its case.

## On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

### Licence Notification

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering and disassembly are prohibited.

### How to Watch a DVD

When placing a disc into the loader, labeled side of the disc should be on the front.

When TV set is turned on, first switch to DVD source by using the **Source** button on the remote control. Press play on the remote control, or directly press play button at the front panel. If there is no disc inside the loader, place a DVD first and press play.

**Note:** If you switch to another source by pressing **Source**, **Swap** or **Programme +/-** buttons on the remote control, DVD playback will be paused automatically. You should press **Play** button and resume the playback manually when you switch to DVD mode.

### DVD Control Panel Buttons

#### ▶ / || (Play / Pause)

Plays/pauses the disc. When DVD menu (root menu) is active, this button functions as "button select" (selects the highlighted item in menu) if this is not prohibited by the disc.

#### ■ / ▲ (Stop / Eject)

Stop playing disc / Eject or Load the disc.

Note:

- You cannot eject the disc via the remote control.
- While playing a file, you should press **STOP** button three times to eject.

**Basic Play**

1. Press on the power button
2. Please insert a disc into the loader.

The disc will be automatically loaded and play will commence if the disc does not have any menus recorded on it.


A menu may appear on the TV screen after a few moments or the film may start immediately. This behaviour depends on the disc content and may change.

**Note:** Step 3 and 4 is available only when a menu is recorded on the disc.


3. Press **Down / Up / Left / Right** or the numeric button (s) to select the preferred title.
4. Press **OK**.

To confirm the selected items. The played item may be a motion picture, a still picture or another submenu depending on the disc.

**For your reference:**

If an action corresponding to a button is prohibited the  symbol appears.

**Notes on Playback:**

1. No sound will be heard during Rapid advance or Rapid reverse.
2. No sound will be heard during Slow motion play.
3. Reverse slow motion play may not be available depending on the dvd content.
4. In some cases, the subtitle language is not changed immediately to the selected one.
5. When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
6. When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
7. If a language is selected, not supported by the disc, the subtitle language will automatically be set to the disc's priority language.
8. Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until **"Subtitles Off"** appears on the screen.
9. When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.
10. Some DVDs may not contain root and/or title menus.
11. Reverse stepping is not available.
12. For your convenience:  
If you attempt to enter a number greater than the total time of the current title, the time search box disappears and  "Input Invalid" message appears on up-left corner of screen.
13. Slide Show is disabled when the ZOOM mode is on.

**Poor picture quality (DVD)**

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the DVD disc and try again.

*See instructions described in "Notes on Discs" to clean your disc properly.*

- Ensure that the DVD disc is in the tray with the label facing upward.
- A damp DVD disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

**Disc does not play**

- No disc in the machine. Place a disc into the loader.
- Disc incorrectly loaded.

*Ensure that the DVD disc is in the tray with the label facing upward.*

- Wrong type of disc. The machine cannot play CD-ROMS etc. The region code of the DVD must match the player.

**Wrong OSD language**

- Select the language in the set-up menu.
- The language for the sound or subtitles on a DVD cannot be changed.
- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu
- These functions are not available on the DVD.

**No picture**

- Make sure you have pressed the correct buttons on the remote control. Try once more.

**No sound**

- Check if volume is set to an audible level.
- Make sure the sound isn't turned off by mistake.





**Distorted sound**

- Check that the appropriate listening mode setting is correct.

**If nothing works**

If you have tried the above solutions and none seem to work, try switching your TV-DVD off and on again. If this does not work, contact your supplier or TV-DVD repair technician. Never attempt to repair a defective TV-DVD yourself.

## Disc Types Compatible with This Unit

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
	Audio + Video	12 cm	Single-sided; 240 min. Double-sided; 480 min.	<ul style="list-style-type: none"> <li>DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System.</li> <li>Various screen and audio functions can be easily selected through the on screen menu.</li> </ul>
	Audio	12 cm	74 min.	<ul style="list-style-type: none"> <li>An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.</li> </ul>
	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	<ul style="list-style-type: none"> <li>MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.</li> </ul>
	Video (still picture)	12 cm	It depends on JPEG quality.	<ul style="list-style-type: none"> <li>JPEG is recorded as a Digital Signal with better picture quality over time.</li> </ul>

For proper operation, only 12 cm discs must be used.

## Specifications

<b>Types of Discs Supported</b>	<b>DVD:</b> SS/SL 4.7" (DVD-5)	CD-DA
	SS/DL 4.7" (DVD-9) DS/SL 4.7" (DVD-10) DS/DL 4.7" (DVD-18)	CD-R CD-RW MP-3/JPEG
<b>Video Type</b>	MPEG-2 Video Standard Decoding (MPEG-1 supported)	
	Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixels	
	50 and 60 Hz frame refresh rates (PAL & NTSC)	
<b>Audio Type</b>	Digital bit-stream processing rate up to 108Mbits/sec	
	Line resolution more than 500 lines	
<b>Audio Output</b>	MPEG Multichannel Decoding	
	LPCM	
<b>Audio Output</b>	<b>Analog Outputs:</b>	
	24 bit /48, 44.1kHz down-sampling DAC	

## Overview of the Remote Control



1. Standby
2. Numeric buttons
3. TV Menu
4. Navigation buttons
5. OK / Select
6. Back
7. Angel
8. Info
9. Display / DVD Menu
10. Zoom
11. Language selection
12. Subtitle
13. Rapid reverse
14. Play
15. Stop
16. Rapid advance
17. Pause
18. Root
19. Title
20. Repeat
21. Search mode
22. Source

**Note:** Buttons not indicated with a number are not functional in DVD mode.

## General DVD Operation (depending on model)

You can operate DVD, movie CD, music or picture CD's content by using the proper buttons on your remote control. Below are main functions of commonly used remote control buttons.

Buttons	DVD Playback	Movie Playback	Picture Playback	Music Playback
	Play	Play	Play	Play
	Pause	Pause	Pause	Pause
	Stop	Stop	Stop	Stop
	Skip backward/ forward	Skip backward/ forward	Rotate	Skip backward/forward
	Highlights a menu item / Shifts the zoomed picture up or down (if available).			
	Rapid advance / Rapid reverse			
<b>MEDIA BROWSER</b>	Views the scene from different angles (if available)		Changes slide effect (depends on the content)	X
<b>MY BUTTON 1</b>	Displays time / Views main setup menu			
<b>INFO</b>	Time counter mode selection (during playback). Press repeatedly to switch between modes.			
<b>LANGUAGE</b>	Auto language		X	X
<b>MENU</b>	Displays TV menu.			
<b>OK</b>	Enter / View / Play			
<b>GREEN BUTTON</b>	Displays repeat options.			
<b>RETURN/BACK</b>	Returns back to the previous menu (if available).			
<b>YELLOW BUTTON</b>	Goes back to the root folder (if available).			
<b>MY BUTTON 2 (*)</b>	Direct selection of scenes or time.		Selects the desired file.	Selects the desired file.
<b>SUBTITLES</b>	Subtitle on-off. Press repeatedly to switch between subtitle options.		X	X
<b>BLUE BUTTON</b>	Displays disc menu (if available).	Displays disc menu (if available).	X	X
<b>RED BUTTON</b>	Zooms picture. Press repeatedly to switch between zoom options.			

### Other Functions – Button Combinations (During playback)

	Slow forward
	Sets slow forward speed
	Sets rapid advance speed
	Sets rapid reverse speed
	Confirms stop command

(\*) You can switch to title by pressing numeric keys directly. You need to press 0 and then digit key to switch one digit titles (example: to select 5, press 0 and 5).

## **DVB-T 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.



## Product Guarantee

This product is guaranteed against manufacturing defects for a period of



This product is guaranteed for twelve months from the date of original purchase. Any defect that arises due to faulty materials or workmanship will either be replaced, refunded or repaired free of charge where possible during this period by the dealer from whom you purchased the unit.

The guarantee is subject to the following provisions:

- The guarantee does not cover accidental damage, misuse, cabinet parts, knobs or consumable items.
- The product must be correctly installed and operated in accordance with the instructions contained in this manual.
- It must be used solely for domestic purpose.
- The guarantee will be rendered invalidated if the product is re-sold or has been damaged by inexpert repair.
- Specifications are subject to change without notice.
- The manufacturer disclaims any liability for the incidental or consequential damages.
- The guarantee is in addition to, and does not diminish your statutory or legal rights.
- In the event of a problem with the product within the guarantee period call the **Customer Helpline: 0345 604 0105**

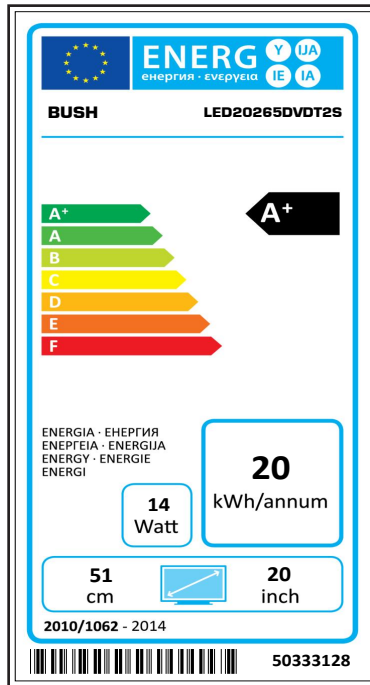
Guarantor: Argos Ltd  
489 - 499 Avebury Boulevard  
Central Milton Keynes  
MK9 2NW



# Product fiche

## Commercial Brand: BUSH

<b>Product No.</b>	10100950
<b>Model No.</b>	LED20265DVDT2S
<b>Energy efficiency class</b>	A+
<b>Visible screen size (diagonal,approx.) (inch/cm)</b>	20 inches / 51 cm
<b>On mode average power consumption (Watt)</b>	14 W
<b>Annual energy consumption (kWh/annum)</b>	20 kWh
<b>Standby power consumption (Watt)</b>	0,5 W
<b>Off mode power consumption (Watt)</b>	0 W
<b>Display resolution (px)</b>	1366x768



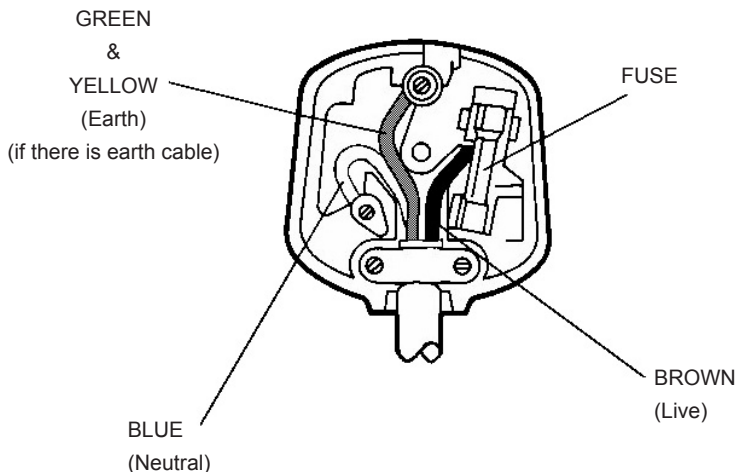
Standby Power Consumption (approx.)	0,5 W
Screen Resolution	1366x768

## Important Instructions

For your own safety read the following instructions 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 :



### 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.