LOGIK | Instruction Manual

24" LED TV with built-in DVD Player

L24HED18

FreeviewHD HDTV DVD VIDEO DOLBY AUDIO HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE dts TruSurround

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Chapter 1 Safety Warnings

- Read all the instructions carefully before using the unit and keep them for future reference.
- Retain the manual. If you pass the unit onto a third party make sure to include this manual.
- Check that the voltage marked on the rating label matches your mains voltage.
- **WARNING**: Never let people (including children) with reduced physical, sensory or mental capabilities or lack of experience and / or knowledge use electrical devices unsupervised.
- To avoid danger of suffocation, keep plastic bags out of reach of 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.

Damage

- Please inspect the unit for damage after unpacking.
- Do not continue to operate the unit 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.

Location of Unit

- The unit must be placed on a flat stable surface and should not be subjected to vibrations.
- Do not place the unit on sloped or unstable surfaces as the unit may fall off or tip over causing serious personal injury or death.
- The mains socket must be located near the unit and should be easily accessible.
- This unit is designed for indoor, domestic use only.
- Use this TV set at an altitude of less than 2000 meters above sea level, in dry locations and in regions with moderate or tropical climates.

Many injuries, particularly to children, can be avoided by taking simple precautions such as;

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

Wall Mounting

- Read the TV and wall mount instructions before mounting your TV on the wall.
- For TVs over 40" in size, wall mounting requires 2 people to lift and position the TV on to the wall mount.
- The wall mount bracket is not supplied, they can be purchased from your dealer.
- Do not install the TV on a ceiling or an inclined wall.
- Only use the screws supplied with the wall mount bracket when attaching the TV to the bracket. See your TV instructions for screw type.
- Tighten the wall mount screw firmly to prevent the TV from falling. Do not over tighten the screws.
- If you are in any doubt how to mount your TV, contact a professional.

Temperature

- Avoid extreme degrees of temperature, either hot or cold. Place the unit well away from heat sources such as radiators or gas / electric fires.
- Avoid exposure to direct sunlight and other sources of heat.

Naked Flames

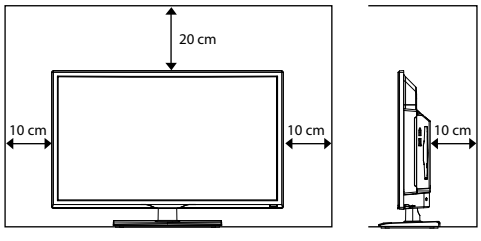
- Never place any type of candle or naked flame on the top of or near the unit.

Moisture

- To reduce the risk of fire, electric shock or product damage, do not expose this unit to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, should be placed on the unit.
- If you spill any liquid into the unit, it can cause serious damage. Switch it off at the mains immediately. Withdraw the mains plug and consult your dealer.

Ventilation

- To prevent the risk of electric shock or fire hazard due to overheating, ensure that curtains and other materials do not obstruct the ventilation vents.
- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.
- Make sure that there is a gap of at least 10 cm on both sides and a gap of 20 cm at the top.



Safety

- Always disconnect the unit from the mains supply before connecting / disconnecting other devices or moving the unit.
- Unplug the unit from the mains socket during a lightning storm and long inactivity periods (going on holiday).

Mains Cable

- Make sure the unit or unit stand is not resting on top of the mains cable, as the weight of the unit may damage the mains cable and create a safety hazard.
- 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. If the mains cable is damaged it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

Interference

- Do not place the unit on or near appliances which may cause electromagnetic interference. If you do, it may adversely affect the operating performance of the unit, and cause a distorted picture or sound.

Optimum viewing

- View the unit in moderate light to prevent eye strain. It is recommended to watch the unit from a distance 3-7 times that of the screen height.

LCD screen

- The LCD screen is manufactured using high-precision technology. However, some tiny black points and / or bright points (red, blue or green in colour) may constantly appear on the LCD screen. These points are generated in the manufacturing process and are normal.

Screen Burn

- A characteristic of Plasma and TV Panels is that displaying the same image for a long time may cause a permanent after-image to remain on the screen. This is called screen burn. Most pictures shown on the unit will be constantly moving and fill the screen.
- Examples of images that you need to watch out for are as follows (this is not an all-inclusive list):
    1. **Black Bars:** If black bars appear at the left / right or top / bottom of the screen, it is recommended to change the format so that the picture fills the entire screen.
    2. **TV Channel Logos:** e.g. Shopping channel logos and pricing displays - especially if they are bright and stationary. Moving or low-contrast graphics are less likely to cause ageing of the screen.
    3. **Time Displays**
    4. **Teletext:** Do not view a stationary page for long periods of time.
    5. **TV Menus**
    6. **Pause Mode:** Do not leave the screen in pause mode for long periods of time, e.g. when watching videos.
- To prevent screen burn if viewing any of the above for long periods of time, reduce contrast and brightness when viewing. Once burn-in occurs it will never disappear completely.

Earphones

- Listening to loud sounds for prolonged periods of time may permanently damage your hearing.
- Before putting on earphones, turn the volume down then put the earphones on and slowly increase the volume until you reach a comfortable listening level.

Standby

- The ⏻ button on the remote control does not switch off the unit completely. The unit will continue to draw electricity from the mains supply while in standby. In the interests of safety and to avoid unnecessary energy consumption, never leave the unit in standby while unattended for long periods of time, e.g. overnight, while on holiday or while out of the house. Disconnect the mains plug from the mains socket.

Batteries

- Batteries used in the remote control for this unit are easily swallowed by young children and this is dangerous.
- Keep loose batteries away from young children and make sure that the battery holder tray is secure in the remote control. Seek medical advice if you believe a cell has been swallowed.
- Please dispose of batteries correctly by following the guidance in this manual.
- Do not dispose of batteries in fire or with hazardous or flammable materials.
- The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Supervision

- Children should be supervised to ensure that they do not play with the unit and the remote control.
- Never let anyone especially children push anything into the holes, slots or any other openings in the case - this could result in a fatal electric shock.

DVD

- **Class 1 Laser Product**

  This unit utilises a laser. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Before moving the unit, ensure the disc tray is empty.
- Always remove the disc when the unit is not in use.
- Failure to do so will risk severely damaging the disc and the unit.
- Do not stack devices, heat from other devices may affect the performance of the unit.

Earthing

- Apparatus connected to the protective earthing of the building installation through the MAINS connection or through other apparatus with a connection to protective earthing - and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)

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 unit's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

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 manual accompanying the unit.

Service

- To reduce the risk of electric shock, do not remove screws. The unit does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.
- Do not open any fixed covers as this may expose dangerous voltages.

Maintenance

- Ensure to unplug the unit from the mains socket before cleaning.
- Do not use any type of abrasive pad or abrasive cleaning solutions as these may damage the unit's surface.
- Do not use liquids to clean the unit.
- The wall socket plug is used as a disconnect device, the disconnect device should be readily accessible.
- This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.
- AC voltage: This symbol indicates that the rated voltage marked with the symbol is AC voltage.
- DC voltage: This symbol indicates that the rated voltage marked with the symbol is DC voltage.

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

Chapter 2 Preparation

Thank you for purchasing your new Logik TV.

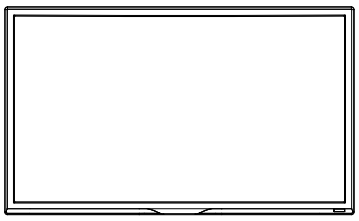
Your new TV has many features and incorporates the latest technology to enhance your viewing experience. We recommend that you spend some time reading this instruction manual so that you fully understand these features. You will also find some hints and tips to help you resolve any issues.

Read all the safety instructions carefully before use and keep this instruction manual for future reference.

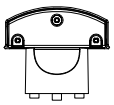
Unpacking the TV

Remove all packaging from the TV. Retain the packaging. If you dispose of it please do so according to local regulations.

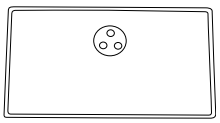
The following items are included:



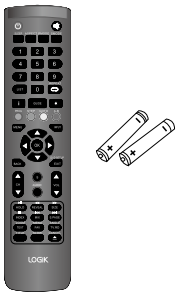
TV



TV Stand Support

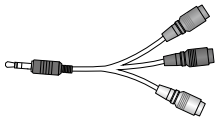


TV Base

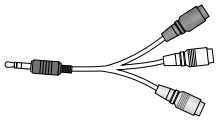


Remote Control / AAA Batteries x 2

Screw x 6



Component Adapter Cable (YPbPr)



Composite Adapter Cable (AV)

Instruction Manual

Quick Start Guide

- If items are missing, or damaged please contact Partmaster (UK only). Tel: 0344 800 3456 for assistance.
- if you require additional assistance:
  For UK, please call our UK Call Centre on **0344 561 1234**.
  For Ireland, please call our Ireland Call Center on **1 890 818 575**.

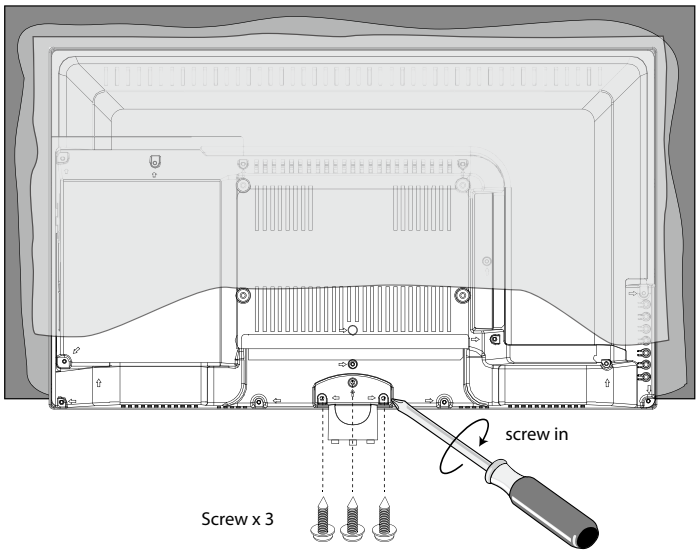
Installing / Removing the Base Stand

The LCD display is very fragile, and must be protected at all times when installing and removing the base stand. Be sure that no hard or sharp object, or anything that could scratch or damage the LCD display, comes into contact with it. DO NOT exert pressure on the front of the TV at any time because the screen could crack.

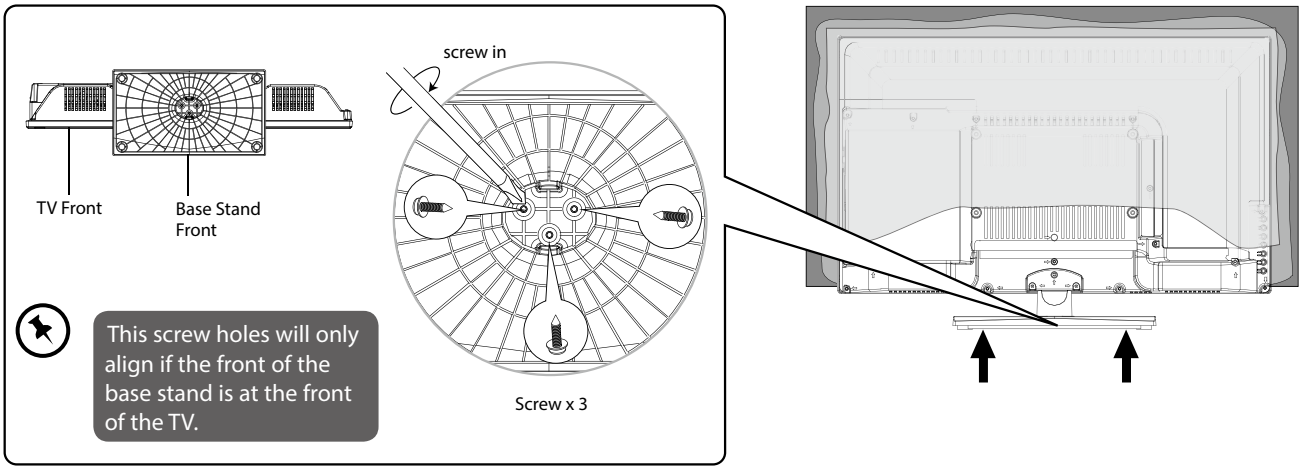
1. Disconnect all cables connected to the TV.
2. Lay the TV down on a flat surface with the back side facing up, and ideally at the edge of a table so that the base of the TV slightly overhangs on it. Please make sure a soft cushioned material (such as a towel or thick piece of foam) is placed beneath the screen. Leave the protective bag on your TV until you have fully attached the TV stand.

Installing the Base Stand

1. To install the TV stand, first attach the stand support to the TV by using 3 screws. Align with the screw holes then use 3 screws to fix the stand support to the TV.



2. To install the base stand, align the screw holes, then secure with a screw driver (not included) using the 3 screws provided.



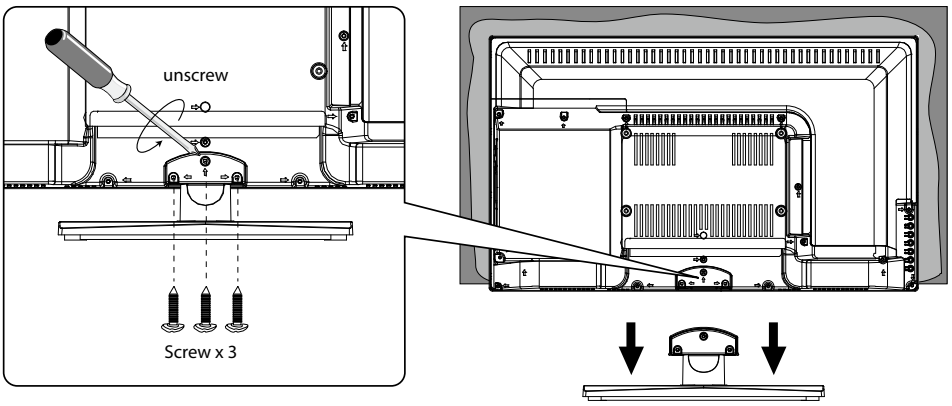
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance:
  For UK, please call our UK Call Centre on **0344 561 1234**.
  For Ireland, please call our Ireland Call Center on **1 890 818 575**.

Mounting the TV to a Wall

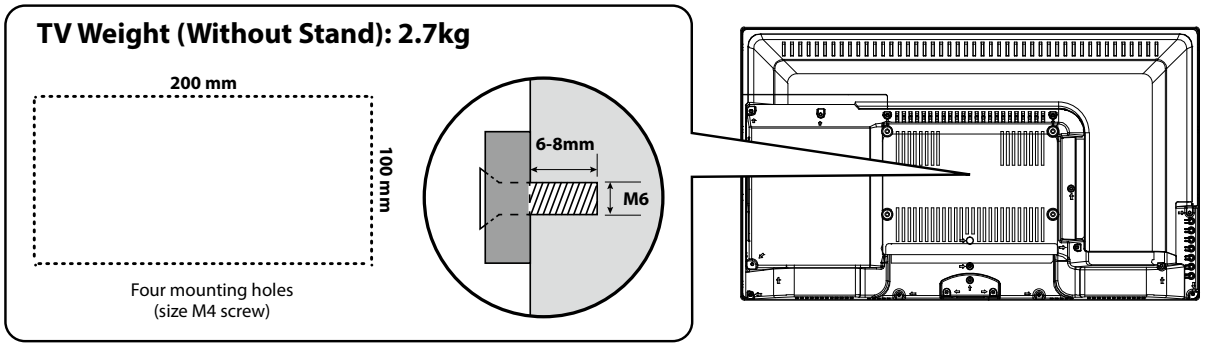
- Remove the stand assembly before mounting the TV onto the wall.
- It is recommended that two people take part in the wall mounting.

1. To remove the stand assembly, untighten the screws holding the stand assembly to the rear of the TV. Slide the stand assembly out.

Keep all the spare screws should you want to use the stand assembly option.



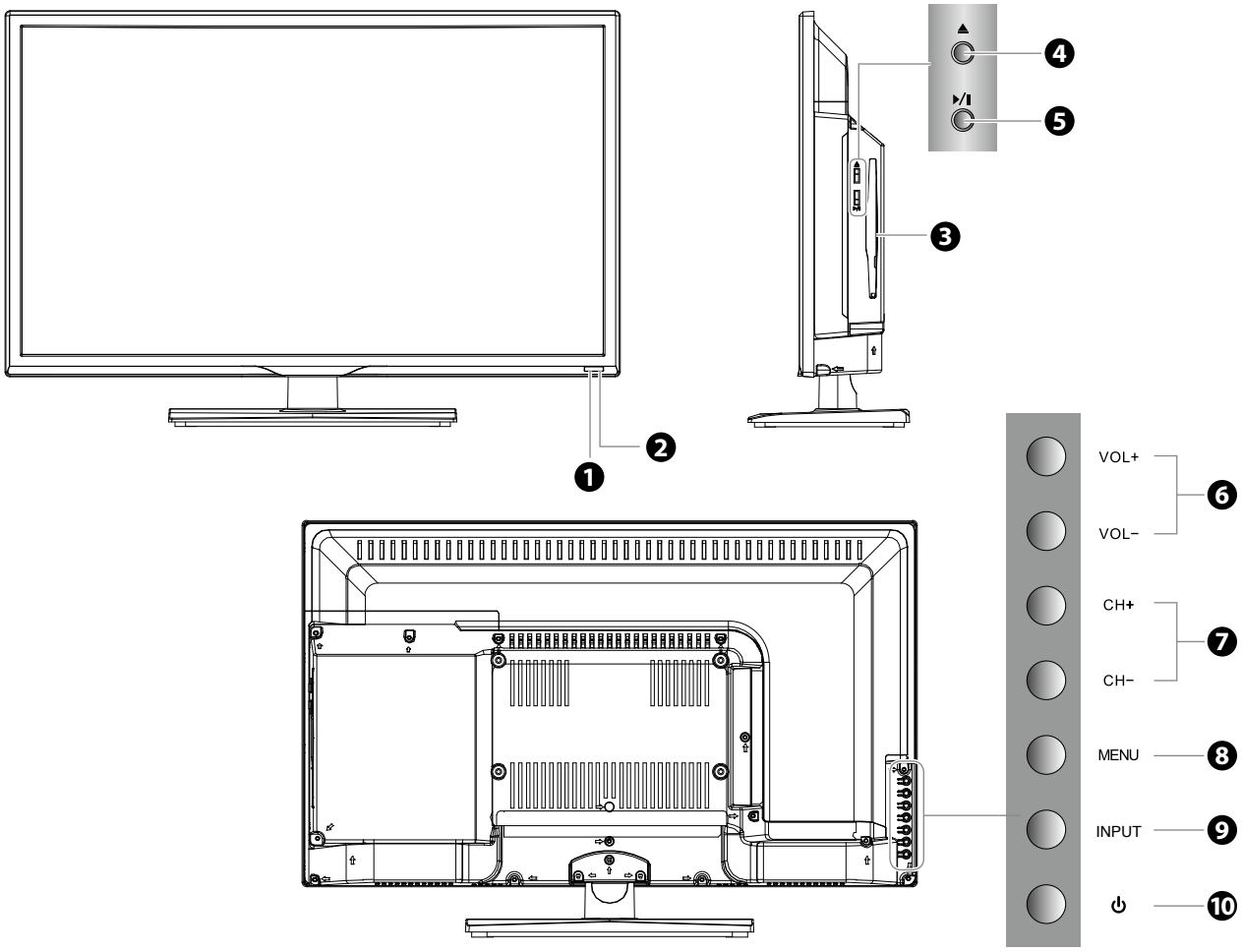
2. This TV is designed to be wall-mounted with a standard mounting kit (sold separately) designed for flat-panel TVs. Mount this TV according to the instructions included in the mounting kit. Due to space restrictions, we recommend that you make all connections (refer to page 16-20 and page 51 for details) before mounting on to the wall.



- Some models of TV are provided 4 screws inside the mounting holes. Be sure to use these supplied screws with your mounting kit when attaching the mounting hooks to the TV set. The supplied screws are designed for the TV. Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.
- Before mounting on the wall, untighten the screws inside the mounting holes.

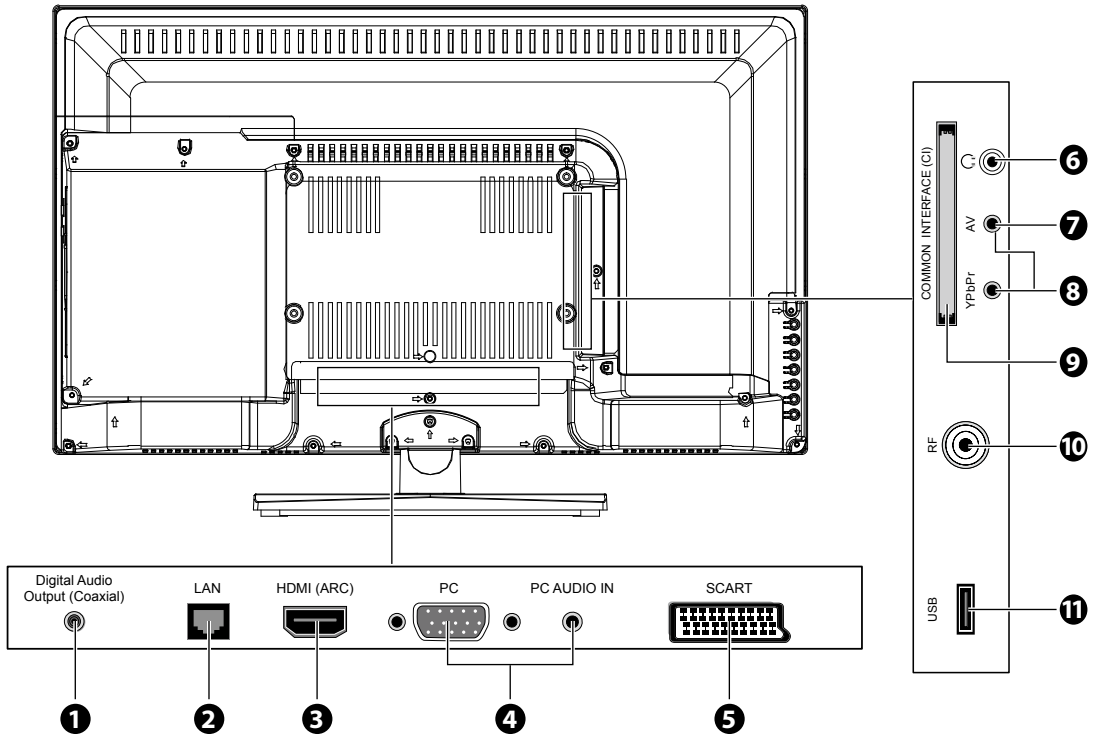
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance:
  For UK, please call our UK Call Centre on **0344 561 1234**.
  For Ireland, please call our Ireland Call Center on **1 890 818 575**.

Front / Right Side View and Rear Controls



Item		Description
1	**POWER LED**	Illuminates blue when the TV is turned on. Illuminates red when the TV is in standby mode. The LED will illuminate blue and then blink red and blue confirming that a timer recording programme has started in the standby mode.
2	**IR (Infrared Receiver)**	Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected.
3	**Disc Slot**	Insert a disc with the label side facing towards the rear of the TV. (12 cm discs only. Don't insert 8 cm discs.)
4	⏏	Press to eject disc. (DVD mode)
5	▶/II	Press to start playback or pause. (DVD mode)
6	**VOL + / –**	Adjusts the volume. Press to select and adjust a setting in the OSD menu.
7	**CH + / –**	Press to select a channel or select a sub-menu from the OSD menu.
8	**MENU**	Displays the OSD (on screen display) menu.
9	**INPUT**	Press to select among different input signal sources: Digital TV / Analogue TV / HDMI / AV / SCART / YPbPr / DVD / PC / USB. Use the ▲▼ buttons on the remote control to select the input, and then press the **OK** button to confirm.
10	⏻	Switches the TV on from standby mode. Switches the TV back to standby mode.

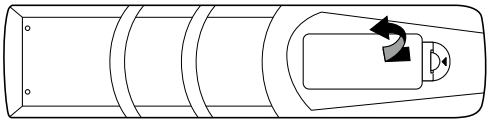
Rear View and Sockets



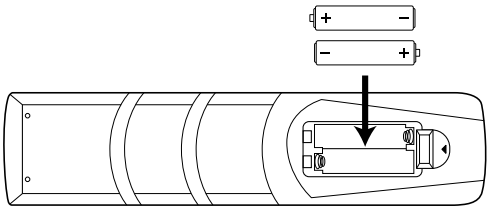
Item		Description
1	**Digital Audio Output (Coaxial)**	To connect to the audio socket on the digital/standard 5.1 audio system.
2	**LAN**	Connects your TV to the internet router by an Ethernet cable.
3	**HDMI (ARC)**	Connects to a High-Definition (HD) signal output device, such as a set-top box, blu-ray disc player or AV receiver.
4	**PC AUDIO IN / PC**	Connects to a computer or other devices with a VGA interface.
5	**SCART**	Connects to a VCR, DVD Player, or other AV device with a SCART output socket.
6	🎧	Connects to the headphones.
7	**AV**	Connects to the Composite output sockets on external video devices.
8	**YPbPr / AV (Audio)**	Connects to a DVD player, Digital Set-Top-Box, or other AV devices with component (YPbPr) video and audio output sockets.
9	**COMMON INTERFACE**	Allows the insertion of a Common Access Module. (Refer to page 33 for details.)
10	**RF**	Connects to the aerial socket on the wall with the RF coaxial cable.
11	**USB**	Allows the insertion of a USB storage device to play video, audio, photo and text files (USB mode) and record DTV programmes on to a USB storage device.

Installing Batteries in the Remote Control

1. Press and lift the back cover to open the battery compartment of the remote control.



2. Insert two AAA size batteries. Make sure the (+) and (-) ends of the batteries match the (+) and (-) ends indicated in the battery compartment.



3. Close the battery compartment cover.

Handling the Batteries

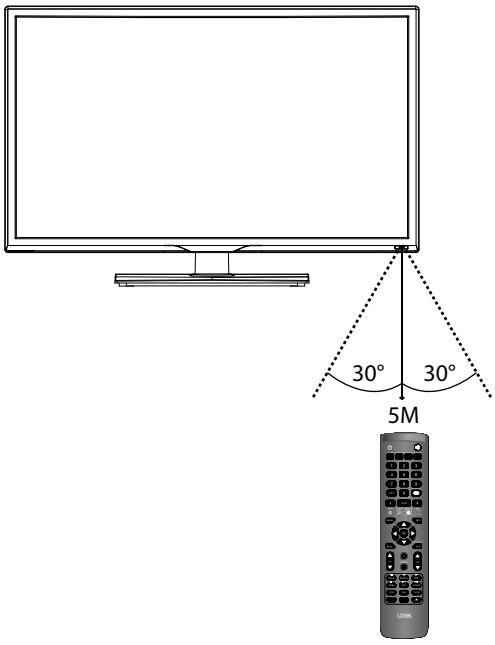
- Improper or incorrect use of batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Only use the battery type indicated in this manual.
- When the batteries are exhausted, the remote will not function. Replace both batteries at the same time with new ones.
- Do not install new batteries with used ones and do not mix different types of batteries.
- Do not dispose of used batteries as domestic waste. Dispose of them in accordance with local regulations.

Handling the Remote Control

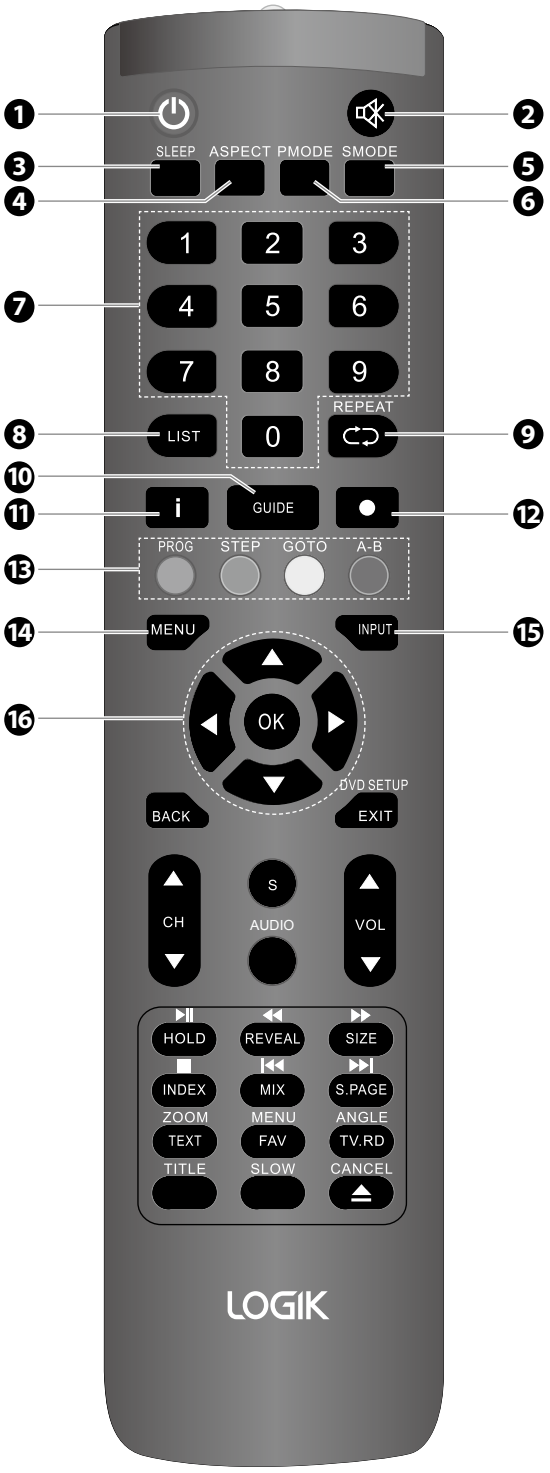
- Take care of your fingernails when you press and hold the battery release tab.
- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control under direct sunlight or near sources of excessive heat.
- Remove the battery from the remote control when not in use for a long period of time, as it could cause corrosion or battery leakage and may result in physical injury and/or property damage including fire.

Remote Control Operation Range

Point the remote control at the TV no more than 5 metres from the remote control sensor on the TV and within 60° in front of the TV. The operating distance may vary depending on the brightness of the room.



Remote Control



1. ⏻
Switch the TV between on and standby mode.

2.
Mute and restore your TV sound.

3. SLEEP
Set the TV sleep timer: OFF / 10 / 20 / … / 180 / 240 min.

4. ASPECT
Watch the screen in various formats: Auto / 4:3 / 16:9 / Smart Zoom / Zoom / Full / Subtitle.

5. SMODE
Select sound mode: Standard / Music / Movie / News / Personal.

6. PMODE
Select picture mode: Standard / Movie / Personal / Dynamic.

7. 0-9 Number Button
- Press to select a programme.
- Select numbered items in a menu. (DVD mode)

8. LIST
Display the channel list. (ATV / DTV mode)

9.
- Return to the previous viewing channel. (ATV / DTV mode)
- Return to menu (DVD mode)

REPEAT
Select between different repeat modes. (DVD mode)

10. GUIDE
Displays the EPG Electronic Programme Guide. (DTV mode)

11. i
- Display the present channel information such as the current time and channel name. (ATV / DTV mode)
- Display the present disc information. (DVD mode)

12. ●
Record the current programme. (DTV mode).

13. Coloured buttons
- Access the TELETEXT items (ATV / DTV mode)
- Access menu options.

PROG (RED)
- Access menu options.
- Programme the DVD. (DVD mode)

STEP (GREEN)
Play the playback forward frame by frame. (DVD mode)

GOTO (YELLOW)
Skip to a specific location during play video. (DVD / USB mode)

A–B (BLUE)
Repeat a segment between A and B. (DVD mode)

14. MENU
Display the OSD (On Screen Display) menu.

15. INPUT
Select among the different input signal sources:
Digital TV / Analogue TV / HDMI / AV / SCART / YPbPr / DVD / PC / USB.

16. ◀▲▼▶
Allows you to navigate the OSD menus and adjust the system settings to your preference.

OK
Confirm the selection in the OSD menus.

17. BACK
Return to the previous menu in the OSD menus.

18. Exit
Exit the OSD menu.

DVD SETUP
Display and exit the DVD setup menu. (DVD mode)

19. S (Subtitle)
- Display subtitle language which are broadcast with the programme. (DTV mode)
- Display subtitles on the DVD. (DVD mode)

20. CH ▲ / ▼
Select a channel.

21. VOL ▲ / ▼
Adjust the volume.

22. AUDIO
- To display the Audio Language list and select an audio language or audio format if available (only applicable when the TV programme has this feature). (DTV mode)
- Select different Audio mode on DVD mode. (DVD mode)
- Select Stereo / Dual Sound Reception. (ATV mode)

23. HOLD (No Function)

⏯
- To start or pause the time-shift function. (DTV mode)
- To start playback or pause. (DVD / USB mode)

24. REVEAL (No Function)

◀◀
Reverse playback rapidly. (DVD / USB mode)

25. SIZE (No Function)

▶▶
Advance playback rapidly. (DVD / USB mode)

26. MIX (No Function)

⏮
To skip to the beginning of the previous chapter / track / photo. (DVD / USB mode)

27. INDEX (No Function)

■
Stop the playback. (DTV / DVD / USB mode)

28. S.PAGE (No Function)

⏭
Skip to the beginning of the next chapter / track / photo. (DVD / USB mode)

29. TEXT
Turn on and off the teletext function. (DTV mode)

ZOOM
Zoom in on the displayed frame. (DVD mode)

30. FAV
Display the favourite channel list. (ATV / DTV mode)

(DVD) MENU
Display the DVD menu. (DVD mode)

31. TV.RD
A short-cut to switch input source to TV / Digital radio / Data channels.

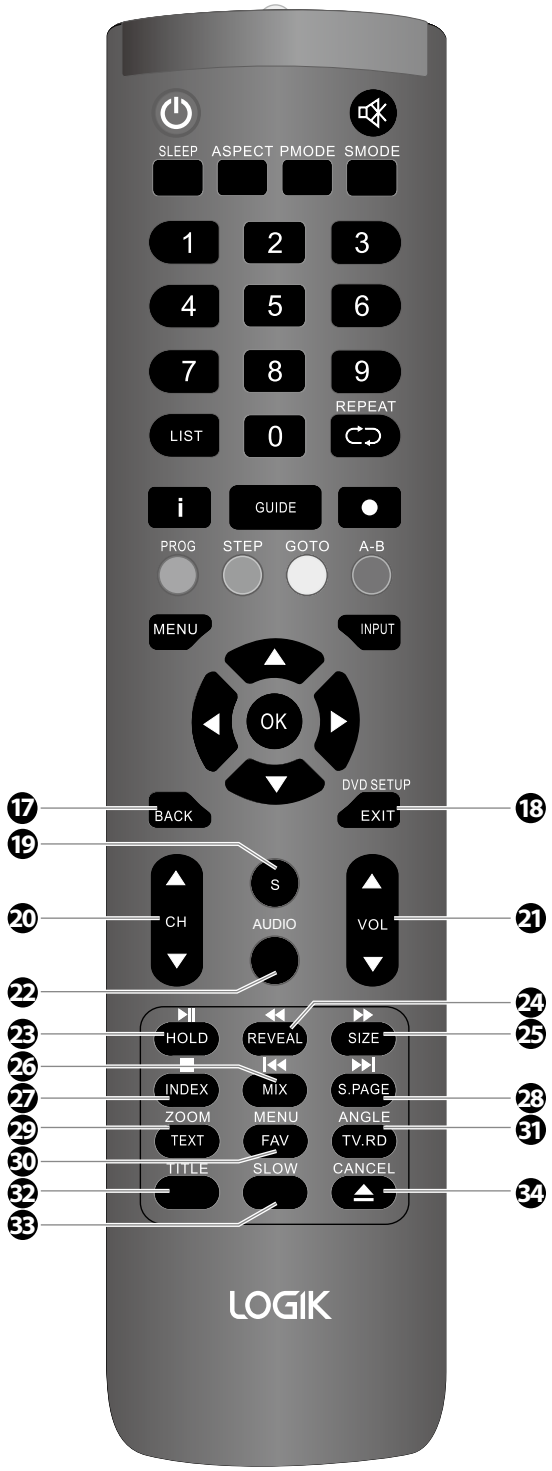
ANGLE
Select different angles for the video. (DVD mode)

32. TITLE
Display the DVD title content. (DVD mode)

33. SLOW
Play video slowly. (DVD / USB mode)

34. ⏏
Eject a disc. (DVD mode)

CANCEL (No Function)



Chapter 3 Connections

Making Video and Audio Connections

Not all AV devices have the ability to connect to a TV, please refer to the owner's manual of your AV device for compatibility and connection procedures.

When connecting any external AV device, do not connect the mains cable to the mains socket until all other connections are complete.

Best Video Performance

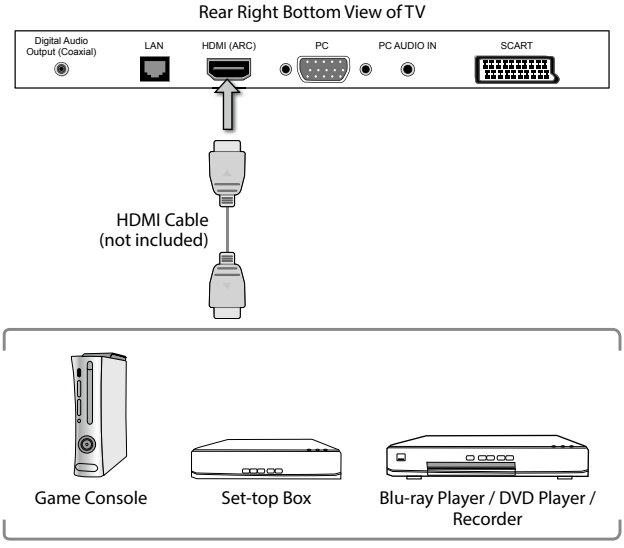
	Signal Type	Separate Audio Connection Required
HDMI1	HDMI (480i/480p/576i/576p/720p/1080i/1080p*)	No
PC	PC	Yes PC AUDIO IN
YPbPr	Component Video (480i/480p/576i/576p/720p/1080i/1080p*)	Yes AV
SCART	SCART (RGB Input)	No
AV	Composite Video	No

*1080i/1080p: Although this TV is compatible with a 1080i/1080p input, it is possible that the screen may not display the exact resolution and consequently the picture quality will be adjusted accordingly.

Connecting an AV Device Using an HDMI Cable

- This TV can accept High-Definition Multimedia Interface (HDMI) supports HDCP (High-Bandwidth Digital Content Protection) Protocol.
- This TV has a total of 1 HDMI input socket, please make sure the correct input source is selected and corresponds to your connected HDMI input socket.
- When you connect to the output of an HD ready player (blu-ray disc player, game console, set-top box or computer) switch to the HDMI function and the TV will automatically detect the resolution used by the HDMI source.
- To get the best picture quality, adjust the blu-ray disc player, game console or set-top box output resolution up to 1920 x 1080p.

1. Use an HDMI cable to connect the TV's HDMI input socket to the external AV device's HDMI output socket.
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV.
4. Press the **INPUT** button on the TV or on the remote control to display the **Input Source** List. Use the ▲▼ buttons to select **HDMI** and then press the **OK** button to confirm.

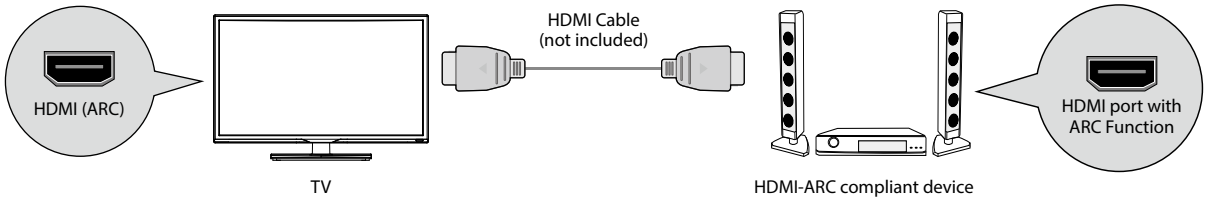


⚠ Although this TV is able to connect to an HDMI device, it is possible that some devices may not operate correctly.

Connecting a Soundbar - HDMI ARC (Audio Return Channel)

The ARC (Audio Return Channel) function allows you to send audio from your ARC-compliant TV to ARC-compliant audio devices (e.g. soundbar) through a single HDMI connection.

To enjoy the ARC function, please ensure your ARC-compliant audio devices are connected by an HDMI cable that support the ARC function to the **HDMI (ARC)** socket of your ARC-compliant TV. When correctly set up, you can use your TV remote control to adjust the volume output (VOL +/– and MUTE) of the connected audio device.

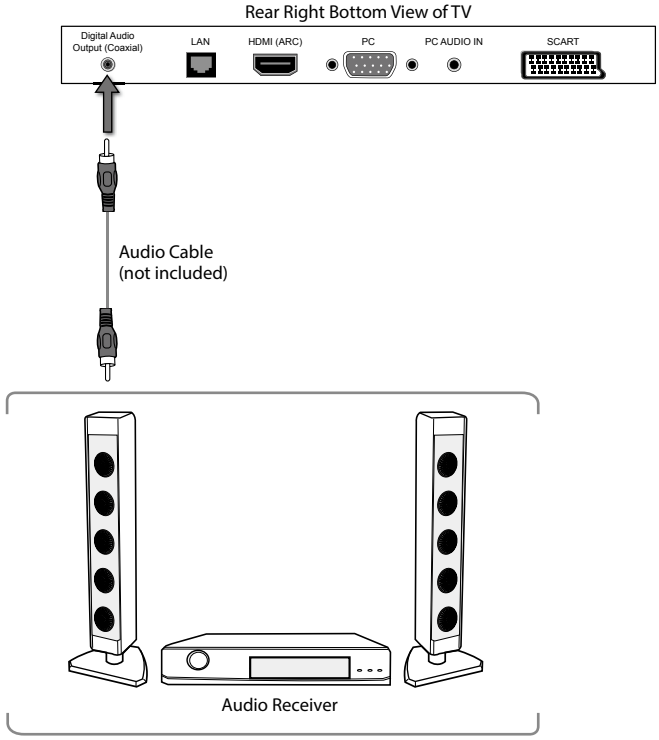


- Ensure that audio device is HDMI CEC and ARC compliant and that the TV is connected to the device using an HDMI cable attached to HDMI-ARC connectors.
- The HDMI connector is HDMI Audio Return Channel (ARC) compliant. Use it to output digital audio to an HDMI home theater system.
- If the ARC-compliant audio devices do not support sound that TV outputs, such as Dolby Digital, or Dolby Digital Plus, then ARC function will not work and there may be no sound from ARC-compliant audio devices. In this case, additional connection with digital optical cable is necessary.
- The HDMI CEC feature has different trade names on different brands. The compatibility performance may vary with different CEC-enabled devices.
- Please refer to your ARC-compliant devices' guidebook for more details on the operation of the HDMI ARC function.
- Ensure **HDMI CEC** is **On** (refer to page 44 for details on **HDMI CEC**).

Connecting an Audio Receiver Using an Coaxial Cable

For better sound quality, you may want to play the audio through your multi-channel audio receiver.

1. Use an optical cable to connect the TV's Digital Audio Output (Coaxial) socket to an external audio receiver's audio optical input socket.
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV.
4. Press the **INPUT** button on the TV or on the remote control to display the **Input Source** list. Use the ▲▼ buttons on the remote control to select any desired input source and then press the **OK** button to confirm.



The TV's volume will not be affected. You may control the audio level via the Audio Receiver.

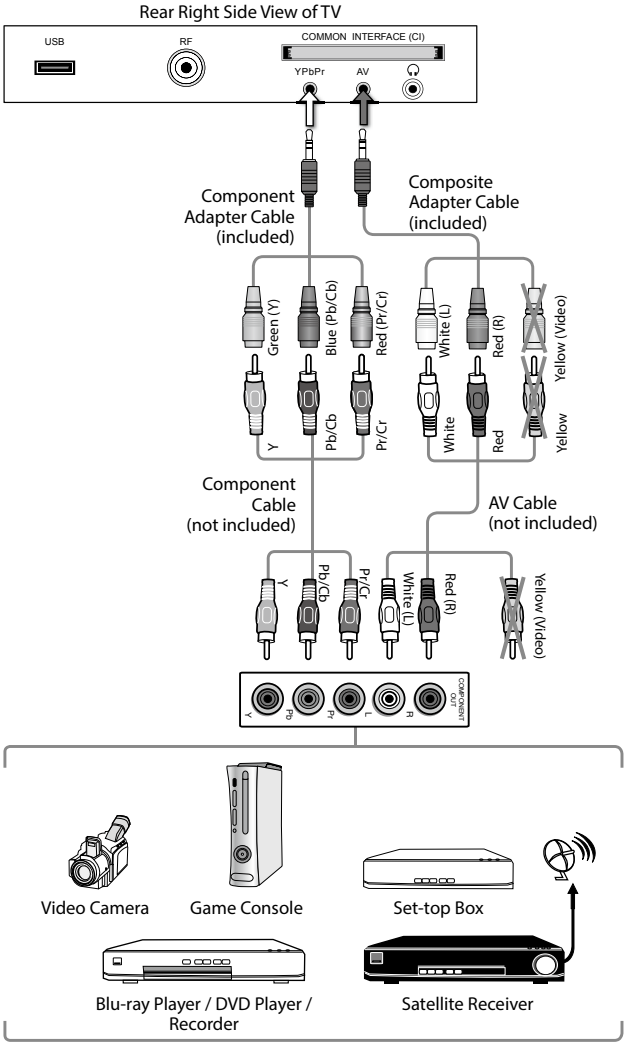
Connecting an AV Device Using a Component (YPbPr) Cable

1. Connect the supplied component adapter cable and a component cable (not included) from the TV's YPbPr input socket to an external AV device's component output sockets.
2. Connect the supplied composite adapter cable and an AV cable (not included) to connect the TV's AV input socket to the external AV device's component audio output sockets. (Audio Left = white, and Audio Right = red)

Component port on the TV	Y	Pb	Pr

Video output ports on DVD player	Y	Pb	Pr
	Y	Cb	Cr

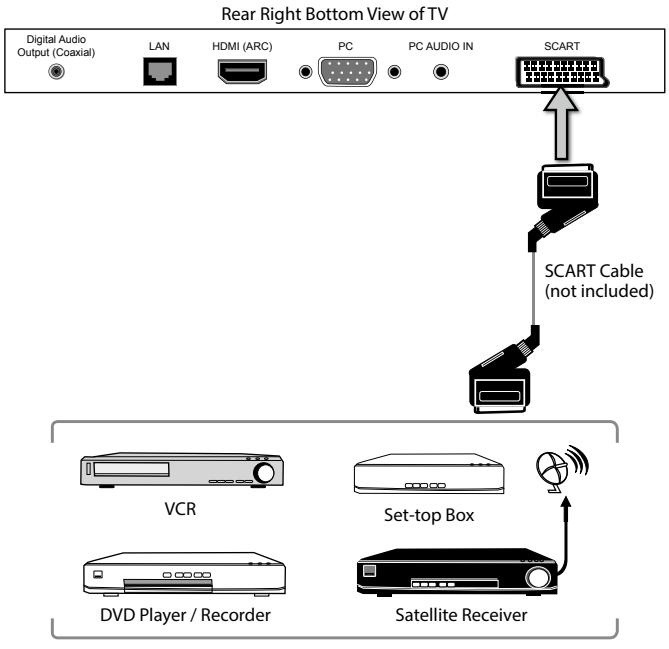
3. Plug the connected devices into the mains socket before switching on the TV.
4. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV.
5. Press the **INPUT** button on the TV or on the remote control to display the **Input Source** list. Use the ▲ ▼ buttons to select **YPbPr** and then press the **OK** button to confirm.



Connecting an AV Device Using a SCART Cable

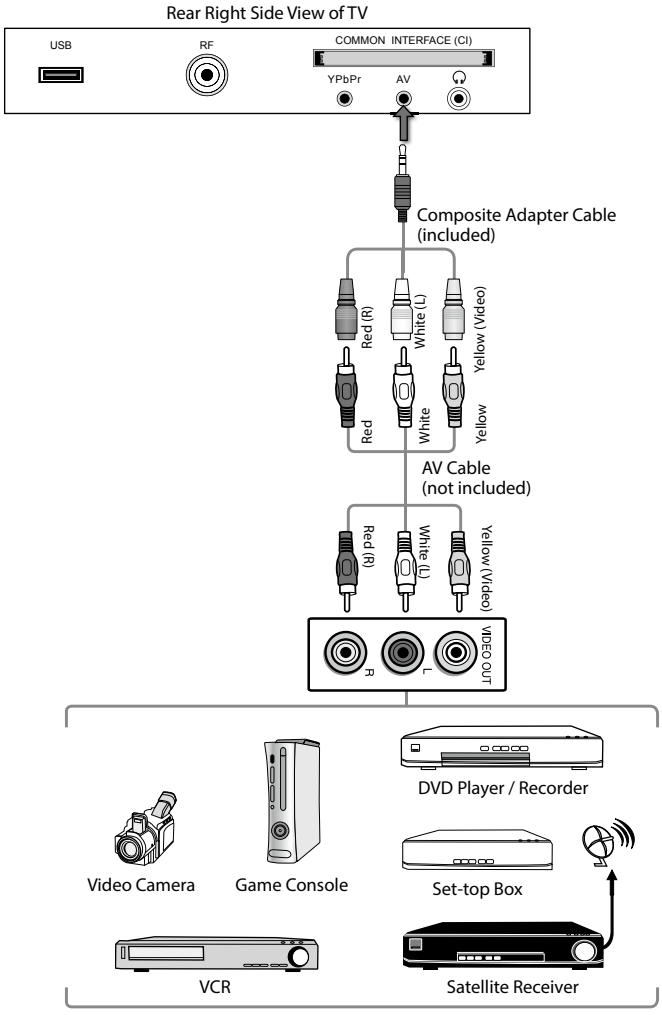
1. Use a SCART cable to connect the TV's SCART input socket to an external AV device's SCART output socket.
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV.
4. The TV will change the input source to **SCART** automatically once the AV device is switched on.

⚠ Ensure the both side of SCART plugs are fully plugged to the TV and the connected devices.



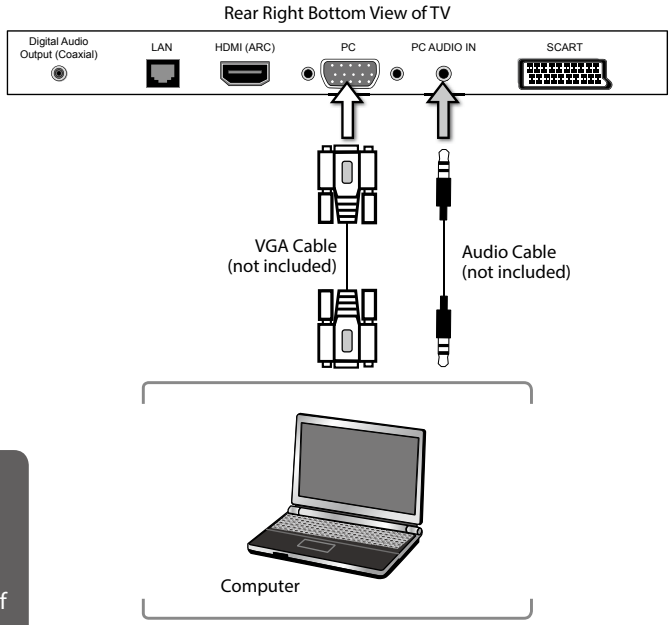
Connecting an AV Device Using Composite Cable

1. Connect the supplied composite adapter cable and an AV cable (not included) to connect the TV's AV input socket to an external AV device's composite audio/video sockets. (Video = yellow, Audio Left = white, and Audio Right = red)
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV.
4. Press the **INPUT** button on the TV or on the remote control to display the **Input Source** list. Use the ▲▼ buttons to select **AV** and then press the **OK** button to confirm.



Connecting a Computer Using a VGA Cable

1. Use a VGA cable to connect the TV's PC input socket to a computer's VGA output socket. Use an audio cable to connect the TV's PC AUDIO IN input socket to the computer's audio output socket.
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV.
4. Press the **INPUT** button on the TV or on the remote control to display the **Input Source** list. Use the ▲▼ buttons to select **PC** and then press the **OK** button to confirm.



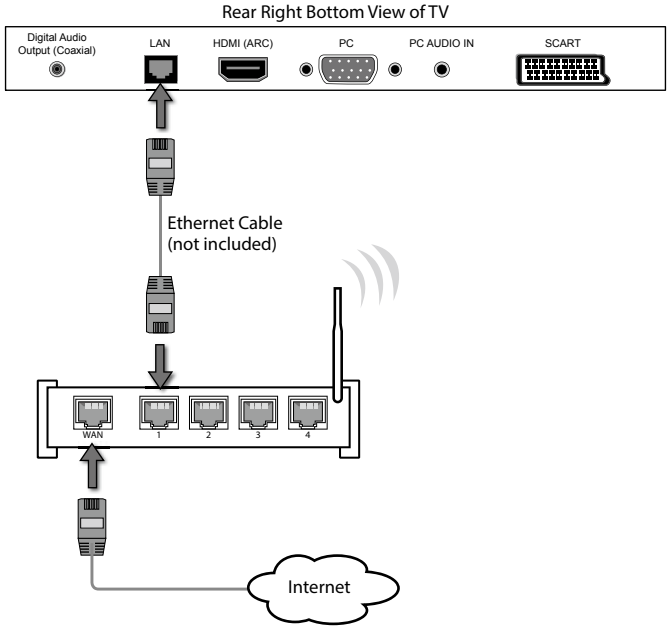
⚠

- The best resolution is 1366 x 768.
- If your computer is set to shut down after a few minutes in the idle mode, the TV will also switch to standby due to no signal being received, this is to save energy. Press the ⏻ button on the rear panel of the TV or on the remote control to restart the TV.

Connecting to Network

Connects your TV to the internet router by an Ethernet cable. It allows access to some IP channels that are available on T2 products. These are accessible through the normal EPG / channel list. It can also allow access to Red button plus services on some TVs.

Wired a Network Connection
Use an LAN or Ethernet cable (CAT5 or better with RJ45 connector) to connect the TV's LAN socket to the corresponding port on your router.



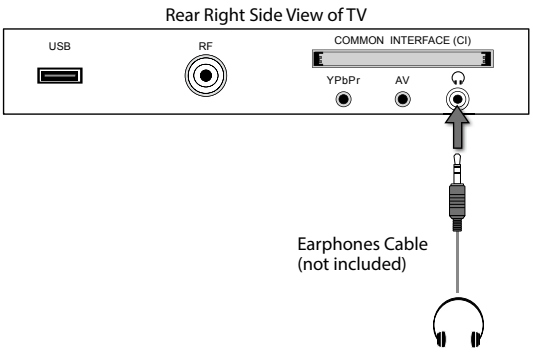
- This unit cannot be connected to a standalone modem directly. A router or a modem incorporated with a router has to be used.
- When plugging or unplugging the LAN cable, hold the plug portion of the cable. When unplugging, do not pull on the LAN cable but unplug while pressing down on the lock.
- Do not connect a modular phone cable to the LAN socket.
- Since there are various connection configurations, please follow the specifications and instructions of your telecommunication carrier, Internet service provider, and router setting guidebook.

Connecting Headphones

Connect your headphones to the TV's socket.

Before putting on the headphones, turn the volume down then put the headphones on and slowly increase the volume until you reach a comfortable listening level.

Long-term exposure to loud music may cause hearing damage. It is best to avoid extreme volume when using headphones, especially for extended periods.



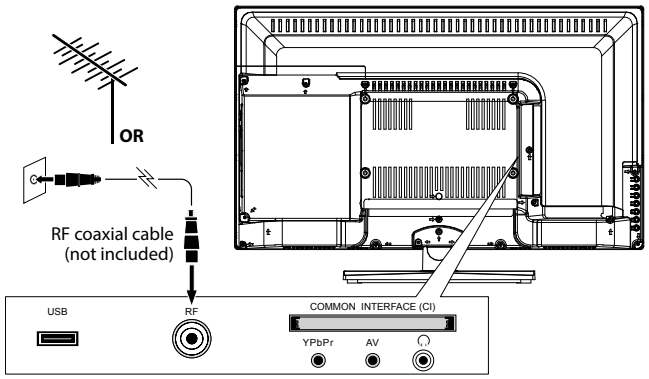
Chapter 4 Initial Setup

Turning the TV On for the First Time

- This instruction manual explains the basic instructions for operating this unit. All pictures shown are for illustrative purpose only. Actual product may vary due to product enhancement. Unless otherwise stated, all operations described are based on remote control use.
- Some DVDs are produced in a manner that allows for specific or limited operation during playback. Therefore, this unit may not respond to all operating commands. This is not a defect.
- When an item in main menu is displayed gray, it means that the item is not available or cannot be adjusted.
- If you are going to watch TV using a set-top box, simply connect your TV and set-top box via a HDMI cable and select HDMI in the **Input Source** menu.

1. Connect one end of the RF coaxial cable to the aerial socket on the wall and the other end of the cable to the RF (75Ω) socket at the rear right bottom of your TV.

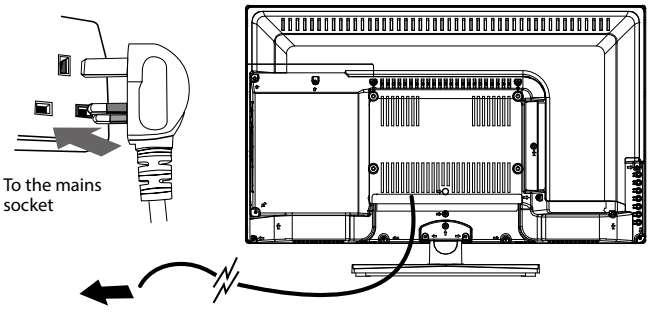
Do not connect the TV to the mains supply until you have completed all the connections.



2. Unwind the mains cable to its full length. Connect the mains cable to the mains socket after you have completed all the connections.

3. At this stage, the TV switches to standby mode. The red LED indicator will illuminate on the front panel of the TV.

4. In standby mode, press the ⏻ button on the rear panel of the TV or on the remote control to turn the TV on. The red LED indicator will turn blue.

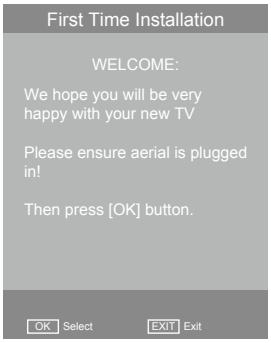


- Always disconnect the TV from the mains socket when not in use for a long period of time.
- The ⏻ button on the rear panel of the TV or on the remote control is only used for switching the TV into standby, it does not disconnect the TV from the mains power. To completely disconnect the mains power, please remove the mains plug from the mains socket.

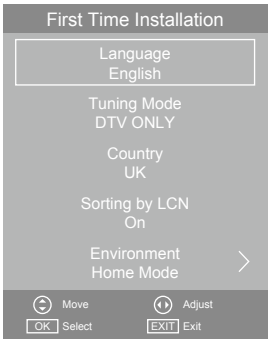
First Time Installation

1. The first time you turn the TV on, it will go straight into the **First Time Installation** menu. Please ensure the aerial is plugged in. (If you have already installed the TV using the Quick Start Guide, please go to the section "**Selecting the Input Source**" on the next page.)

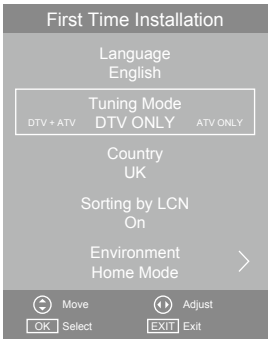
If you are going to watch TV using a set-top box, press the **EXIT** button on the remote control then skip this section. Then press the **INPUT** button on the remote control to select **HDMI** mode.



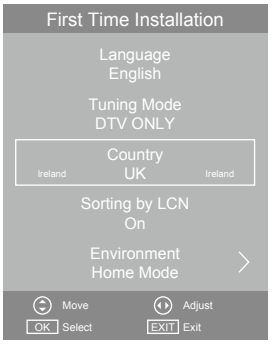
2. The default on-screen menu language is set as **English**.



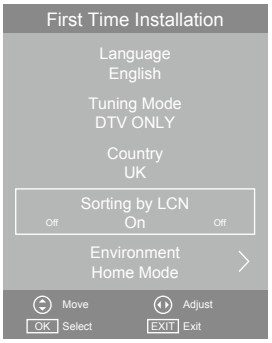
3. Press the ▼ button to select **Tuning Mode**. Press the ◀▶ buttons to select **DTV + ATV** / **DTV ONLY** / **ATV ONLY**.



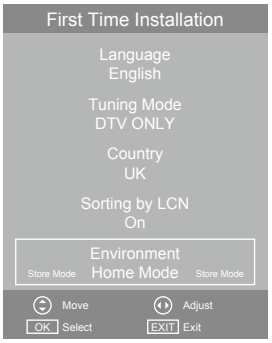
4. Press the ▼ button to select **Country**. Press the ◀▶ buttons to select the country option.



5. Press the ▼ button to select **Sorting by LCN**. Press the ◀▶ buttons to select the LCN (Logical Channel Number, DTV only) **On** or **Off**. If you want to sort the channels.



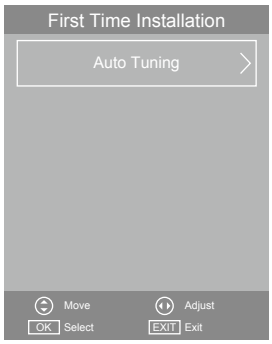
6. Press the ▼ button to select **Environment**. Press the ◀▶ buttons to select your desired mode. If select **Store Mode**, a pop-up menu will be display. Press the ◀▶ buttons to select **Yes** to confirm or press any button to cancel and return to the **Environment** menu.



Home Mode	Intended for use in home environment.
Store Mode	Intended for use in retail environment.

- For the best picture quality in your home environment, we recommend setting the TV to **Home Mode**.
- In **Shop Mode**, the default **Picture Mode** under the **PICTURE** menu is set as **Standard** and the **Backlight** is set as 10 (refer to page 25 for details).

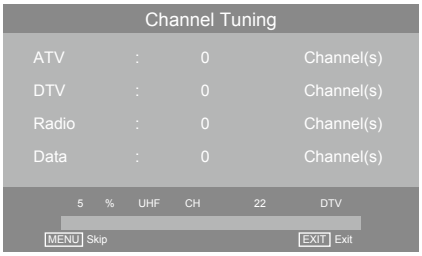
7. Press the ▼ button to select **Auto Tuning** and then press the **OK** button.



8. Channel tuning will commence. This operation may take up to few minutes. The display will show the progress of the tuning and the number of channels found.

9. If you select DTV + ATV and you want to skip the DTV tuning during scanning, press the **MENU** button to interrupt the tuning half way. A pop-up menu will be display. Press the ◀ buttons to select **Yes** to confirm.

10. After tuning is complete, the channels are arranged in a preset order. If you wish to skip channels, modify the preset order or rename channels, select **Channel Edit** under the **Channel** menu (refer to page 31 for details).



Target Region Setting (UK Only)

During tuning your TV may have received signals from more than one transmitter. If this has occurred the Target Region Setting screen will be displayed. This will enable you to select the correct regional transmission for the local news service that you require.

Press the ▲▼ buttons to select each option's setting and then press the **OK** button to confirm.

Country Code	This will be shown as GBR for the UK.
Primary Region	This will show the regional country (e.g. England, Wales, Scotland, NI).
Secondary Region	This will allow you to set the region for your local news service on BBC and ITV (e.g. London, Beds and Cambs etc).
Tertiary Region	You may receive signals from more than one transmitter within the Secondary Region, (e.g Beds and Cambs may have Luton or Sandy Heath).

Eco Friendly / Auto Standby Function

The latest eco-friendly power saving technology will automatically switch the TV into standby mode if the TV is left on and idle for 4 hours or it does not receive an input signal for serveral minutes. A reminder screen will pop up and count down before the switches to standby mode. Once the TV is switched to standby mode, the red LED indicator will illuminate on the front panel of the TV.

Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV. The red LED indicator will turn off and a pop up message will be prompt on the screen **AFTER** wake up from standby. To turn off the auto standby function, please refer to page 37 **Auto Standby** under the **Time Settings** section.

- Always disconnect the TV from the mains socket when not in use for a long period of time.
- The ⏻ button on the rear panel of the TV or on the remote control is only used for switching the TV into standby, it does not disconnect the TV from the mains power. To completely disconnect the mains power, please remove the mains plug from the mains socket.

Selecting the Input Source

1. Press the **INPUT** button to display the **Input Source** list.
2. Press the ▲▼ buttons to select the input source that you want: Digital TV / Analogue TV / HDMI / AV / SCART / YPbPr / DVD / PC / USB.
3. Press the **OK** button to confirm your selection. If you do not press the **OK** button to confirm, the TV will automatically confirm the selected input source within 4 seconds.

Alternative

Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SOURCES** menu and then press the **OK** button. Press the ▲▼ buttons to select the input source that you want, and then press the **OK** button to confirm.

Channel Selection

- Press the **CH + / –** buttons on the rear panel of the TV or the **CH** ▲ / ▼ buttons on the remote control repeatedly or the **0-9** buttons to select the channel.

Alternative

Press the **LIST** button to enter the **Channel List**. Then use the ▲▼ buttons to highlight and select the channel. Press the **OK** button to view the selected channel.

- If a blocked channel is selected, the password screen will be displayed. Press the **0-9** buttons to enter the password, the channel will then be unlocked (refer to page 39 for details on **Channel Lock**).
- Press the **FAV** button to view the **Favourite List**. Then the ▲▼ buttons to highlight and select the channel from the list. Press the **OK** button to view the selected channel (refer to page 31 for details on **Channel Edit**).
- Press the ↻ button to return to the previously viewed channel.

Watching the Data Channel / Listening to the Radio (Radio Mode)

- In DTV mode, press the **TV.RD** button to switch between DTV / Data / Digital radio channel.
- Press the **CH** ▲ / ▼ buttons on the remote control repeatedly to change the TV channel or radio stations.

Alternative

Press the **LIST** button to enter the **Channel List**. Then use the ▲▼ buttons to highlight and select the station. Press the **OK** button to listen to the selected station.

- Press the **GUIDE** button to see all the stations in the Programme Guide (refer to page 49 for details on **EPG**).

Display Channel Information

Press the **i** button to view the current programme information.

Volume Adjustment

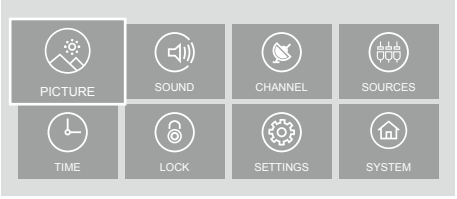
- Press the **VOL +** or **–** button on the rear panel of the TV or the **VOL** ▲ / ▼ buttons on the remote control to adjust the volume.
- If you wish to switch the sound off, press the 🔇 button. You can turn the volume down while your TV is in mute mode. Press the **VOL –** button on the TV or the **VOL** ▼ button on the remote control, you will see the volume level reduce, but you won't hear anything at the moment. To listen to your TV at the new lower level, press the 🔇 button again or **VOL +** button on the TV or the **VOL** ▲ button on the remote control.

Chapter 5 Customising TV Settings

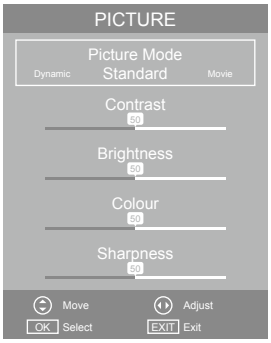
Picture Setting

Allows you to set your preferred picture mode.

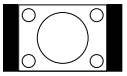
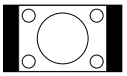
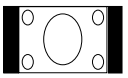
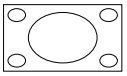
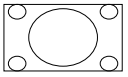
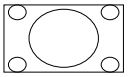
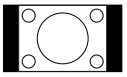
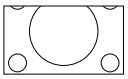
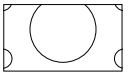
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **PICTURE** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select the following options, and then press the ◀▶ buttons to adjust each option's setting or the **OK** button to select the options.



Picture Mode	Select among picture mode: **Standard** / **Movie** / **Personal** / **Dynamic**. **Alternative** You may press the **PMODE** button to select the picture mode directly.
Contrast	Adjusts the difference between light and dark levels in the picture. (for Personal mode)
Brightness	Increases or decreases the amount of white in the picture. (for Personal mode)
Colour	Controls the colour intensity. (for Personal mode)
Tint (for NTSC format)	Adjusts the balance between red, blue and green levels. (Tint is only available for NTSC signal input via the SCART or AV IN.)
Sharpness	Adjusts the level of crispness in the edges between light and dark areas of the picture. (for Personal mode)
Backlight	Adjusts the backlight setting of your TV. This controls the brightness and display performance of the screen. Increasing the backlight setting will increase the brightness and display performance of the screen. The higher the setting is, the higher the power consumption. You can select from 1-10 to strike a balance between the picture brightness / display performance / power consumption. Reducing the backlight setting will help you reduce power consumption and thus save money by reducing electricity bills.
Colour Temp	Select among colour temperature: **Normal** / **Warm** / **Cold**. • **Red**: Increases red tint • **Green**: Increases green tint • **Blue**: Increases blue tint

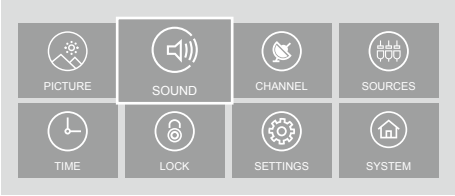
<table>
<tr><td>Aspect Ratio</td><td colspan="4">Allows you to watch the screen in various picture formats: Auto / 4:3 / 16:9 / Smart Zoom / Zoom / Full / Subtitle. Different screen adjustment options are displayed depending on the current input source.
Alternative
You may press the ASPECT button to select the aspect ratio directly.
<table><tr><th></th><th colspan="2">Input Signal 4:3</th><th colspan="2">Input Signal 16:9</th></tr><tr><td>Auto</td><td>This selection will display the picture according to the aspect ratio of the input source. Black bars will appear on both the left and right of the screen.</td><td>  </td><td>This selection will display the picture according to the aspect ratio of the input source.</td><td> </td></tr><tr><td>4:3</td><td>This selection will allow you to view a picture with an original 4:3 aspect ratio. Black bars will appear on both the left and right of the screen.</td><td>  </td><td>This selection will allow you to adjust the picture vertically, in linear proportion. Black bars will appear on both the left and right of the screen.</td><td>  </td></tr><tr><td>16:9</td><td>This selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen.</td><td>  </td><td>This selection will allow you to view a picture with an original 16:9 aspect ratio.</td><td> </td></tr><tr><td>Smart Zoom</td><td>This selection is similar to 16:9 mode, but the picture slightly stretches horizontally and clips off a little from the top and bottom.</td><td>  </td><td>This selection is similar to 4:3 mode, but the picture slightly stretches vertically and clips off a little from the top and bottom.</td><td> </td></tr><tr><td>Zoom</td><td>This selection will allow you to zoom in the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.</td><td>  </td><td>This selection will allow you to zoom in the picture without any alteration, while the 4 sides of the picture will be cropped.</td><td> </td></tr><tr><td>Full</td><td>This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels.</td><td>  </td><td>This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels.</td><td> </td></tr><tr><td>Subtitle</td><td>This selection will allow you to zoom in the picture without any alternation, while filling the entire screen with subtitles shown at the bottom of the screen.</td><td>  </td><td>This selection will allow you to zoom in the picture without any alternation, while showing subtitles at the bottom of the screen.</td><td>  </td></tr></table></td></tr>
<tr><td>Noise Reduction</td><td colspan="4">Select to reduce the noise level of the connected device: Middle / High / Off / Low.</td></tr>
</table>

3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Sound Setting

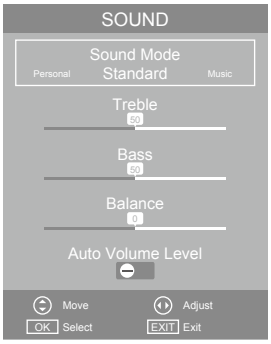
Allows you to select an audio-enhancement technique.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SOUND** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select the following options, and then press the ◀▶ buttons to adjust each option's setting or the **OK** button to select the options.

If the **DTS TruSurround** feature switching **On**, **Sound Mode**, **Treble**, **Bass**, **Balance** and **Auto Volume Level** can not be selected.



Sound Mode	It allows the selection of an audio-enhancement technique: **Standard** / **Music** / **Movie** / **News** / **Personal**. **Alternative** You may press the **SMODE** button to select the sound mode directly.
Treble	Controls the relative intensity of higher pitched sounds. (for Personal mode)
Bass	Controls the relative intensity of lower-pitched sounds. (for Personal mode)
Balance	Adjusts the relative volume of the speakers in a multiple speaker system.
Auto Volume Level	Activates the auto volume leveller to keep the volume level consistent whenever you change channels if selecting **On**.
DTS TruSurround	DTS TruSurround delivers an immersive virtual surround sound experience over front facing speaker configurations, complete with rich bass, high frequency detail and clear dialogue. Press the **OK** button to select **On / Off**.
Digital Audio Output	Selects the digital audio output mode: **PCM** / **Auto** / **Off**. In some TV programmes, the Digital Audio Output terminal may not output some digital audio sources because of copy restrictions. It will switch to PCM automatically. If an **HDMI ARC** in **HDMI CEC** function under **SETTING** menu is switching to **ON**, **Digital Audio Output** will only can select **PCM** or **Auto** (please ref to page 44 for details).
Audio Description (DTV mode only)	This will only work if the programme you are watching broadcasts the audio description. You will hear a description of what is happening on screen, it is designed for people with a visual impairment. Press the the **OK** button to switch **On** / **Off**.
AD Volume (DTV mode only)	Adjust the volume of the audio description. The **Audio Description** in Sound menu must be swtich **On**.

3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Stereo / Dual Sound Reception (ATV Mode)

When a programme is selected, press the **AUDIO** button to display the sound information for the selected station.

Broadcast	On Screen Display
Mono	MONO / NICAM MONO
Stereo	MONO / NICAM STEREO
Dual	MONO / NICAM DUAL I, NICAM DUAL II, NICAM DUAL I+II

Mono sound selection

If the stereo signal is weak, you can switch to mono by pressing the **AUDIO** button. In mono reception, the clarity of sound is improved. To switch back to stereo, press the **AUDIO** button again.

Language selection for dual language broadcast

If a programme can be received in two languages (dual language), you can switch to **NICAM Stereo** or **MONO** by pressing the **AUDIO** button repeatedly.

Speaker Sound Output Selection (DTV Mode)

While watching a DTV programme, you can press the **AUDIO** button to display the **Audio Language** list (only applicable when the TV programme has this feature).

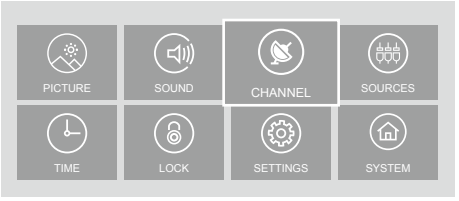
Press the ▲▼ buttons to select an audio language or audio format if available and then press the ◀▶ buttons to select sound track between L/R (Stereo), L/L (Mono Left) and R/R (Mono Right). Press the **OK** button to confirm and exit.

Channel Setting

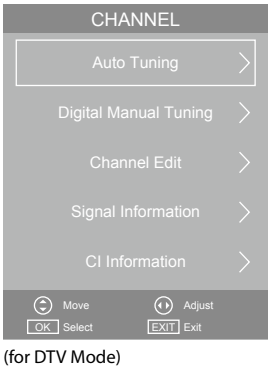
Auto Tuning (DTV / ATV Mode)

Use this to automatically find and store all available channels. This is normally recommended if some channels have been added or removed by the broadcaster or if you have moved.

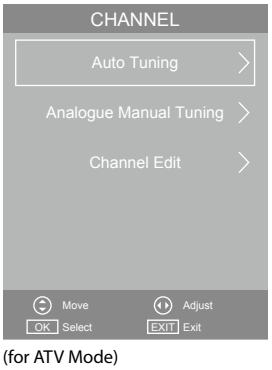
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **Auto Tuning** and then press the **OK** button or the ▶ button to enter the **Channel Tuning** menu.



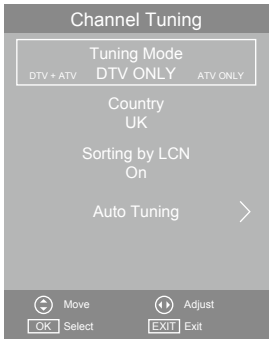
(for DTV Mode)



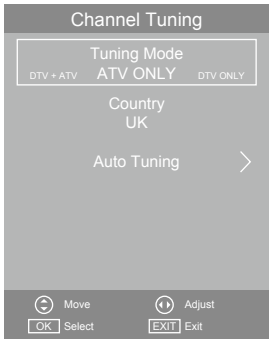
(for ATV Mode)

3. Press the ▲▼ buttons to select the following options, and then press ◀▶ buttons to select the options.

Tuning Mode	Selects tune type: **DTV ONLY** / **ATV ONLY** / **DTV + ATV**.
Country	Selects the desired country.
Sorting by LCN (Logical Channel Number, DTV)	Sets LCN **On** or **Off**. If you want to sort the channels.

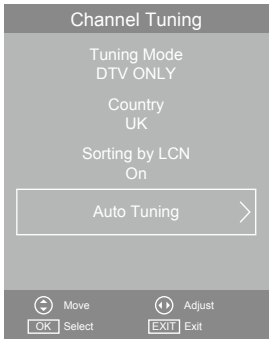


(Tuning Mode: DTV and DTV+ATV)

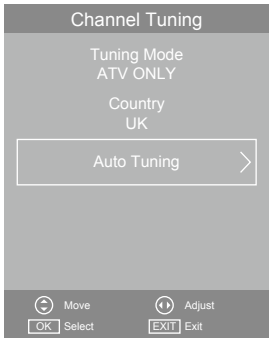


(Tuning Mode: ATV)

4. Press the ▼ button to select **Auto Tuning** and then press the **OK** button to start auto tuning.



(Tuning Mode: DTV and DTV+ATV)

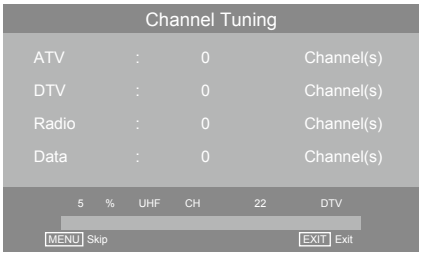


(Tuning Mode: ATV)

5. Channel tuning will commence. This operation may take up to few minutes. The display will show the progress of the tuning and the number of channels found.

6. If you select DTV + ATV and you want to skip the DTV tuning during scanning, press the **MENU** button to interrupt the tuning half way. You will then go straight to ATV tuning. You may repeat the above step if you want to skip ATV tuning.

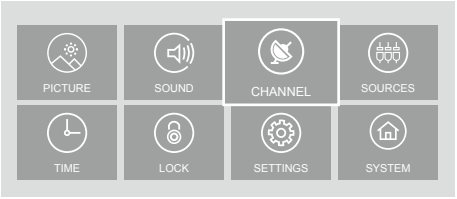
7. After tuning is complete, the channels are arranged in a preset order. If you wish to skip channels, modify the preset order or rename channels, select **Channel Edit** under the channel menu (refer to page 31 for details).



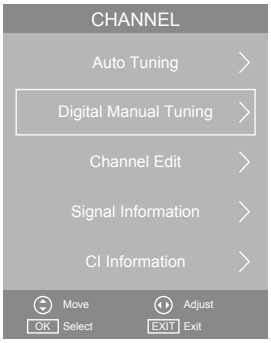
Digital Manual Tuning (DTV Mode)

Allows you to make manual fine tuning adjustments to the channel under DTV channel.

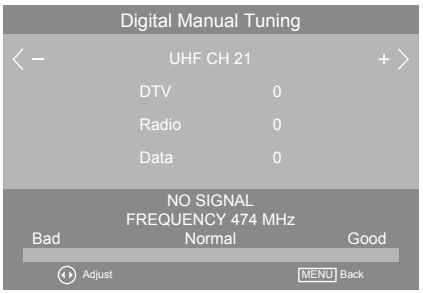
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **Digital Manual Tuning** and then press the **OK** button or the ▶ button to enter the **Digital Manual Tuning** screen.



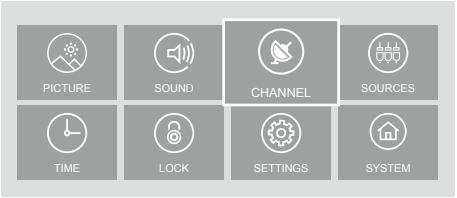
3. Press the ◀▶ buttons to select the desired UHF channel and then press the **OK** button to commence the search of that channel. When the signal has been tuned, the picture and signal strength will be displayed on the screen.
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.



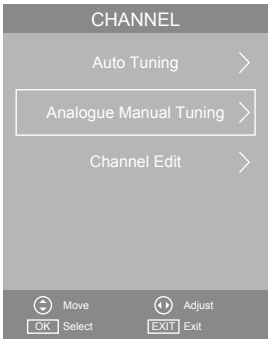
Analogue Manual Tuning (ATV Mode)

Allows you to make manual fine tuning adjustments if the channel reception is poor under ATV mode.

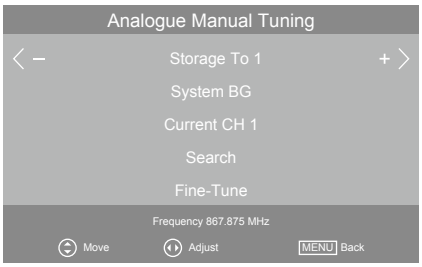
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **Analogue Manual Tuning** and then press press the **OK** button or the ▶ button to enter the **Analogue Manual Tuning** screen.



3. The **Analogue Manual Tuning** screen will pop up. Use the ▲▼ buttons to select the following options and the ◀▶ buttons to adjust the setting.



Storage To	Presets the channel number.
System	Selects the sound system: **BG** / **I** / **DK**.
Current CH	Displays the current channel number.
Search	Press the ◀▶ buttons to start the manual tuning.
Fine-Tune	Press the ◀▶ buttons to make manual fine tuning adjustments.
Frequency	Displays the current tuned frequency.

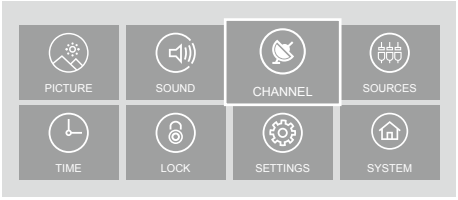
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Channel Edit (ATV / DTV Mode)

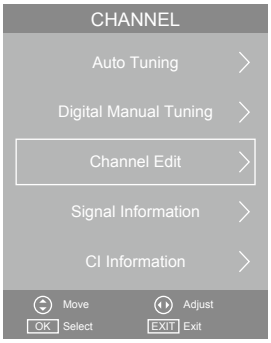
Allows you to edit TV channel information in the Channel List.

---

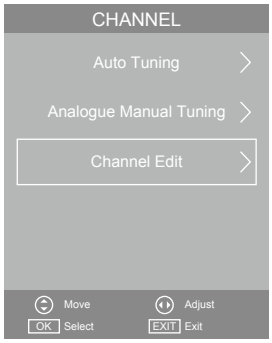
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **Channel Edit** and then press the **OK** button.

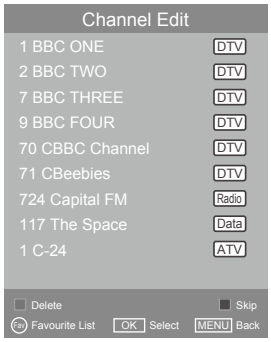


(for DTV Mode)



(for ATV Mode)

3. A **Channel Edit** screen will pop up. Press the ▲▼ buttons to select the programme you want to edit.



- All channels (DTV and ATV) are listed, please ensure that you edit the correct channel.
- Care should be taken when editing the position of digital channels as this may affect EPG and reminder settings.

a. Delete

Press the **RED** button to delete the selected channel.

b. Rename (ATV channels)

Press the **GREEN** button to rename the selected channel. Press the ▲▼ buttons to select the characters to represent the station name. Press the ◀▶ buttons to move to the next character and then press the **OK** button again to confirm the new name.

c. Move (DTV channels)

Ensure the **LCN** is set to **Off** (refer to page 29 for details). Press the **YELLOW** button and then press the ▲▼ buttons to move to the selected channel. Press the **YELLOW** button to confirm.

d. Skip

Press the **BLUE** button to select the channels that you want to skip when you are selecting channels. Press the **BLUE** button again to undo it.

e. FAV (Favourite)

Press the **FAV** button to set the selected channel as one of the favourite programmes. Press the **FAV** button again to undo it.

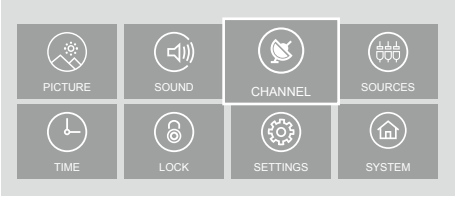
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Signal Information (DTV Mode)

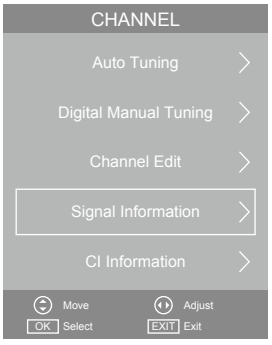
Allows you to view the signal information.

---

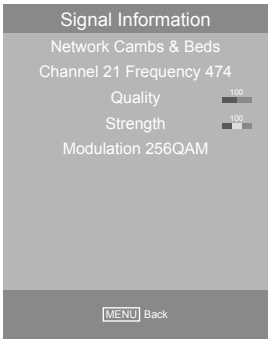
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **Signal Information** and then press press the **OK** button or the ▶ button to view the signal information.



3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

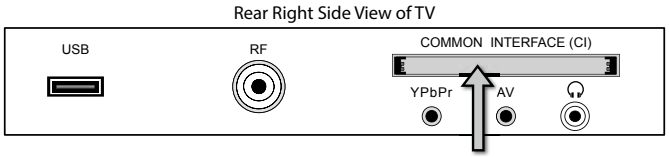


Common Interface (DTV Mode)

The common interface allows the use of a Common Access Module to enable you to view scrambled (pay to view) services. These services are provided by TopUp TV (UK only) and others. The Common Access Module and viewing card can be obtained from the service provider.

Do not repeatedly insert or remove the Common Access Module as this may damage the interface and cause a malfunction.

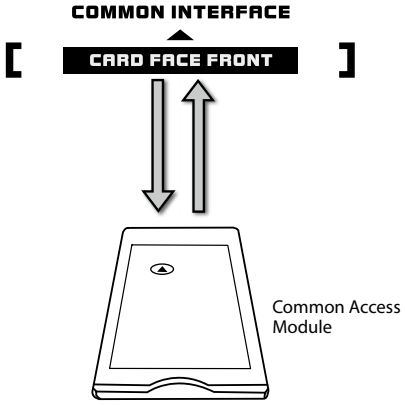
This feature is not available in all countries.



CI (Common Interface)
Allows the Common Access Module to be inserted and access the content that has been encrypted.

To Insert the Common Access Module

1. Before you insert the Common Access Module, ensure that the TV is switched off and the viewing card is inserted ***in accordance with the Service Provider's instructions***.
2. Insert the Common Access Module into the slot. Flip the Common Access Module to another side and try again if you feel resistance.
3. Switch the TV on.

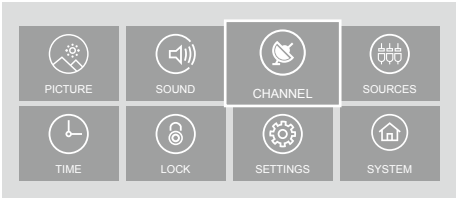


To Remove the Common Access Module

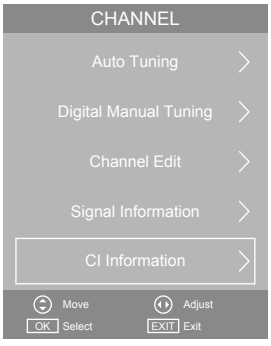
1. Before you remove the Common Access Module, ensure that the TV is switched off.
2. Pull the Common Access Module from the slot.
3. Switch the TV on.

To View the Module Information

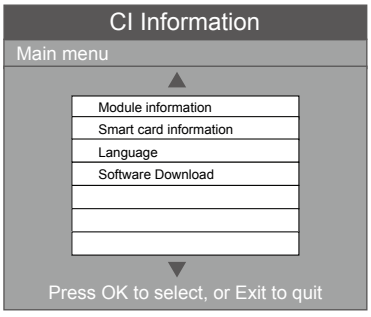
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **CI Information** and then press the **OK** button or the ▶ button.



3. A CI Information Main menu will pop up. Press the ▲▼ buttons to display the module information, smart card information, language, software download. Press the **OK** button to confirm.
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

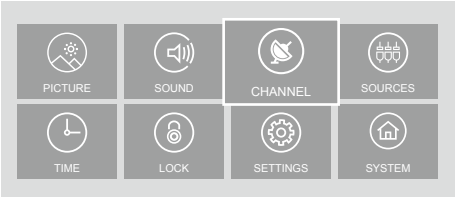


This screen is for illustration only.

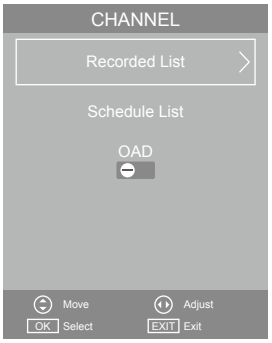
Recorded List (DTV Mode)

Views the recorded programmes in the Recorded List.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.

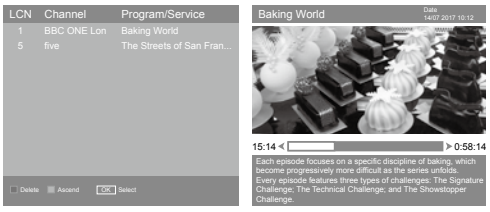


2. Press the ▲▼ buttons to select **Recorded List** and then press the **OK** button to display the **Recorded List**.



3. Press the ◀▲▼▶ buttons to navigate the list and then press the **RED** button to delete the desired recorded programme or the **GREEN** button to display in Ascend order or Descend order..

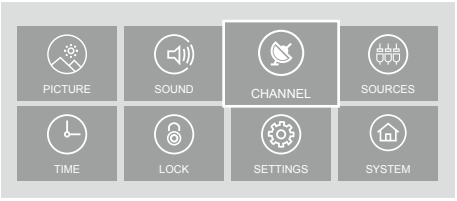
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.



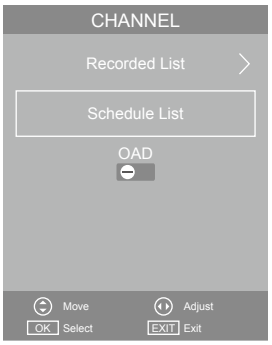
Schedule List (DTV Mode)

Views the preset reminders or scheduled recordings in the Schedule list.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.

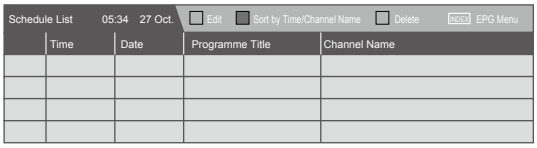


2. Press the ▲▼ buttons to select **Schedule List** and then press the **OK** button to display the **Schedule List**.



3. Press the ◀▲▼▶ buttons to navigate the list and then press the colour buttons to select the options (refer to page 49 for details on **EPG**).

4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

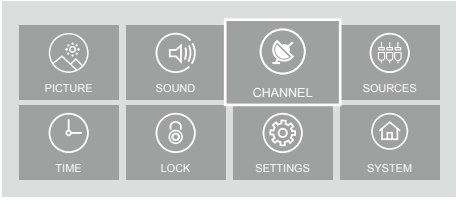


Over Air Download (DTV Mode)

The TV auto detects the latest firmware through the DTV signal and allows you to accept or refuse the firmware upgrade service. This function may not be available in some countries. Please follow the steps below if applicable.

---

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select **OAD** and then press the **OK** button to switch **On** / **Off**.

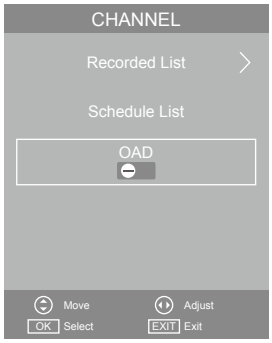
3. Press the **MENU** button to return to the main menu.

4. Press the **EXIT** button to exit the menu.

5. During normal DTV viewing, if the TV detects the latest firmware from the DTV signal, the Over Air Download screen will appear. Press the ◀▶ buttons to select **Yes** / **No** for the upgrade procedure.

6. If you select **Yes**, the over air download will start. Press the **EXIT** button if you want to stop the download and exit the menu.

7. When the download is complete, the TV will return to standby mode. Press the ⏻ button on the rear panel of the TV or on the remote control to switch on the TV, the TV will automatically upgrade the software.



During download, please do not turn off or unplug your TV.

8. When the update is complete, the TV will return to standby mode.

9. Press the ⏻ button on the rear panel of the TV or on the remote control to switch on the TV.

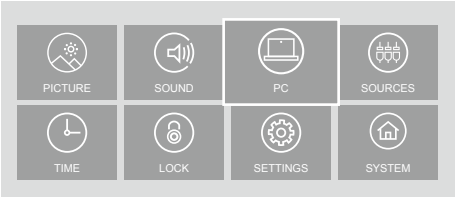
If you encounter problems after the software update, we recommend that you restore your TV to the factory default settings. To do this, follow the steps below:

- Press the **MENU** button to go to the main menu. Press the ▲▼ buttons to select **SYSTEM** and then press the **OK** button.
- Press the ▲▼ buttons to select **Reset TV** and then press the **OK** button. Press the ◀ button to select **Yes** to reset the setting.
- The TV settings will be restored to factory default and will be switched off. Follow the **First Time Installation** steps (refer to page 21 for details) after you switch on the TV again.

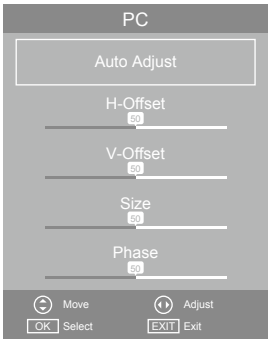
PC Settings (PC Mode)

Allows you to adjust the PC desktop content.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **PC** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select the following options, and then press ◀▶ buttons to adjust each option's setting or the **OK** button to select the options.



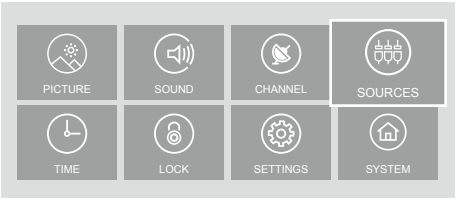
Auto Adjust	Allows you to synchronise a PC signal automatically.
H-Offset	Adjusts the position of the picture left and right in the window.
V-Offset	Adjusts the position of the picture up and down in the window.
Size	Minimize vertical stripes in the screen image.
Phase	Minimize horizontal distortion.

3. Press the **MENU** button to return to return to the main menu or press the **EXIT** button to exit the menu.

Select Sources

Selects the input source that you want.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SOURCES** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select the input source that you want, and then press the **OK** button to confirm.

3. Press the **MENU** button to return to return to the main menu or press the **EXIT** button to exit the menu.

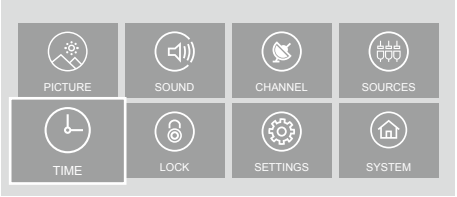
Alternative

Press the **INPUT** button and then press the the ▲▼ buttons to select the input source that you want.

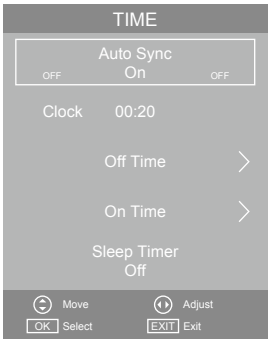
Time Settings

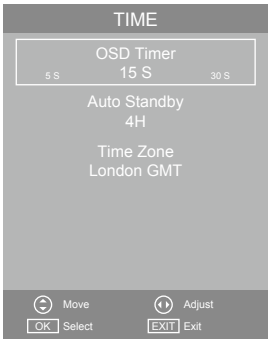
Allows you to adjust power on / off time, sleep timer, OSD timer, auto standby and time zone.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **TIME** menu and then press the **OK** button.



2. Press the ▲▼ buttons to select the following options, and then press ◀▶ buttons to adjust each option's setting or the **OK** button to select the options.





Auto Sync	Allows to set the time and date manually or set automatically when receiving a digital signal. Selects **Auto Sync** to **On**, the time and date will be set from the broadcast signal. If you want to set the date and time manually, set **Auto Sync** to **OFF**.
Clock	If **Auto Sync** sets to **On**, the date and time will be set from the broadcast signal. If **Auto Sync** set to **Off**, you can set the date and time manually. Press the ▲▼ buttons to select **Clock**, then press the **OK** button or the ▶ button to enter the **TIME** menu. Using the ◀▲▼▶ buttons to select the desire date and use the **0-9** buttons and the **OK** button to enter the 24 hour clock.
Off Time	Allows you to set the off time that will automatically switch off the TV. Select from the following off time options: **Off** / **Once** / **Everyday** / **Mon~Fri** / **Mon~Sat** / **Sat~Sun** / **Sun**. Press the ▲▼ buttons to select **TIME**, and then use the **OK** button and the ◀▶ buttons to highlight the hour or minute digit. Use the **0-9** buttons to enter the desired off time.
On Time	Allows you to set the on time that will automatically switch on the TV and tune to the source, channel and volume you select. Select from the following on time options: **Off** / **Once** / **Everyday** / **Mon~Fri** / **Mon~Sat** / **Sat~Sun** / **Sun**. Then press the ▲▼ buttons to select **TIME** option, and then use the **OK** button and the ◀▶ buttons to highlight the hour or minute digit. Use the **0-9** buttons to enter the desired switch on time. Press the ▲▼ buttons to select to **Input Source** option, then use the ◀▲▼▶ buttons to select your desired devices, desired channel (DTV or ATV only) and adjust the volume. ⚠ Ensure the selected input device is turn on.
Sleep Timer	The sleep timer automatically switches the TV to standby after the preset time has elapsed. The clock will be set automatically when receiving a digital signal. Time must be set before using Sleep Timer function. Press the ◀▶ buttons to select a period of time after which the TV automatically switches to standby mode: OFF / 10 / 20 / … / 180 / 240 min. The timer begins to count down from the number of minutes selected. ⚠ If you turn the TV off after setting the sleep timer, the sleep timer setting will be erased. **Alternative** 1. You may press the **SLEEP** button repeatedly to select the number of minutes: OFF / 5 / 15 / … / 120 / 240 min directly. 2. To cancel the sleep time, press the **SLEEP** button repeatedly until Off appears.

OSD Timer	You can select a time that your on-screen menus will be displayed: **Off** / **5** / **15** / **30** / **60 seconds**. If you select **Off** the menu will remain on the screen until you press a button to remove it.
Auto Standby (4 h)	The unit will automatically switch to standby mode 4 hours after the last time the remote control was used. A reminder screen will pop up and count down before the unit switches to standby mode. If you want to operate the TV for a long period of time, turn off the auto standby function. To save energy you should always turn the auto standby function back to **3H** / **4H** / **5H**.
Time Zone	When you select a Time Zone city, the TV time is set by the time offset information based on Time Zone and GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal. You can use the ◀▶ buttons to select your desired time zone.

3. Press the **MENU** button to return to return to the main menu or press the **EXIT** button to exit the menu.

Lock Setting

To access the **Lock System** menu, you must enter the password. Enter the default password "**0000**" for the first time use. To change the password, refer to "**New Password**" (see below).

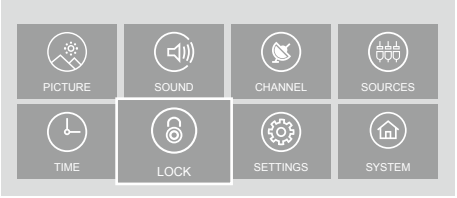
System Lock

The System Lock is designed to prevent accidental re-tuning of the TV / losing of channels and to prevent children from watching unsuitable programmes.

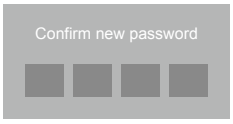
The System Lock must be set to **On** for this function to operate. If the System Lock is set to **On**, a valid password must be entered when you access channel locks, rated programme and first time setup, also all buttons on the TV will be locked.

---

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **LOCK** menu and then press the **OK** button.



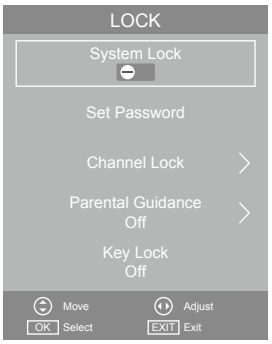
2. Use the **0-9** buttons to input a 4-digit password to enter the **Lock System** menu.



The default password is "**0000**".
If you change the password, be sure to remember the new password! If you forget the new password, enter the master password"**8899**".

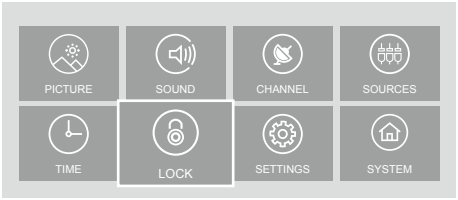
3. Press the ▲▼ buttons to select **System Lock** and then the ◀▶ buttons to select **On** / **Off**.
If the Enable is set to **On**, a valid password must be entered when you access Channel menu and TV Reset.

4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

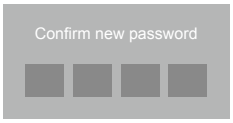


Set Password

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **LOCK** menu and then press the **OK** button.

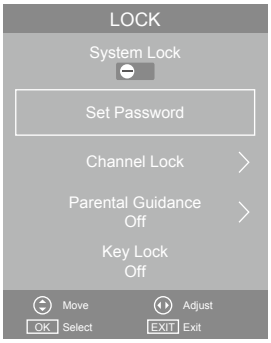


2. Use the **0-9** buttons to input a 4-digit password to enter the **Lock System** menu.



> The default password is "**0000**".
> If you change the password, be sure to remember the new password! If you forget the new password, enter the master password"**8899**".

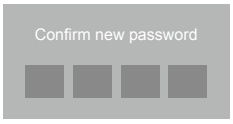
3. Press the ▲▼ buttons to select **Set Password** and then press the **OK** button.



4. Use the **0-9** buttons to input the old password.

5. Input the new 4-digit password.

6. Re-enter new password for confirmation.



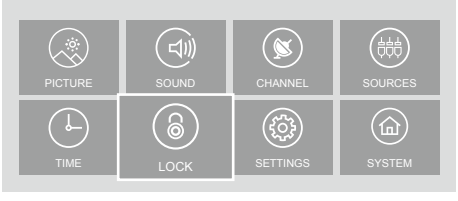
7. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Channel Lock

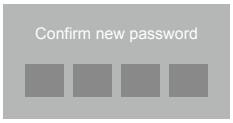
Channel Lock is designed to prevent children from watching unsuitable programmes.

When a channel is blocked, a valid password must be entered.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **LOCK** menu and then press the **OK** button.

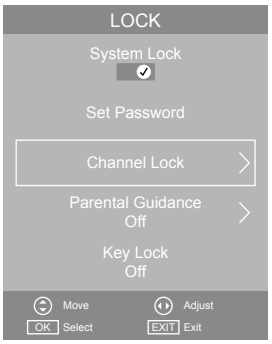


2. Use the **0-9** buttons to input a 4-digit password to enter the **Lock System** menu.



> The default password is "**0000**".
> If you change the password, be sure to remember the new password! If you forget the new password, enter the master password"**8899**".

3. Ensure the **System Lock** is set to **On**. Press the **OK** button or the ▶ button to select **Channel Lock** and then press the **OK** button.



4. A **Channel Lock** screen will display. Press the ▲▼ buttons to select a channel. Press the **GREEN** button to lock. Press the **GREEN** button again to unlock.

5. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Parental Guidance

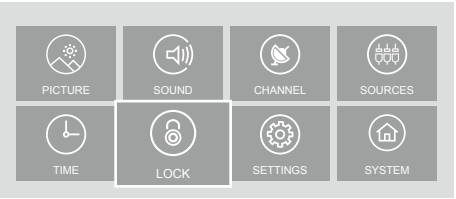
This function allows you to set up blocking schemes to block specific channels and ratings. It operates according to information from the broadcasting station, therefore if the signal has incorrect information, this function will not operate.

This TV is programmed to remember the last option set even if the TV is switched off.

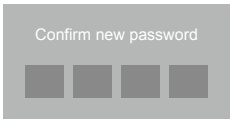
When a programme is locked or rated, a valid password must be entered.

---

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **LOCK** menu and then press the **OK** button.



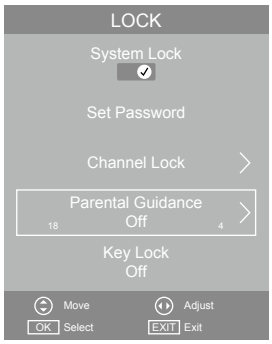
2. Press the ▲▼ buttons to select the **Enter Password**. Use the **0-9** buttons to input a 4-digit password to enter the **Lock System** menu.



> The default password is "**0000**".
> If you change the password, be sure to remember the new password! If you forget the new password, enter the master password"**8899**".

3. Ensure the **System Lock** is set to **On**. Press the ▲▼ buttons to select **Parental Guidance** and then press the **OK** button or the ▶ button to select an age rating: **Off**, **4-18**.

4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

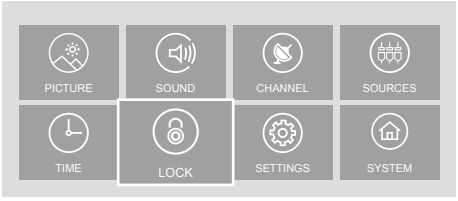


Key Lock

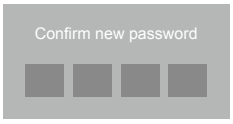
Key Lock is designed to prevent children from pressing the buttons on the TV. The Lock System must be set to On for this function to operate. If the key lock is set to partical lock, all buttons except the ⏻ button on the TV will be locked. If set to full lock, all buttons on the TV and remote control will be locked. All TV operations can be controlled by the remote control only.

---

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **LOCK** menu and then press the **OK** button.



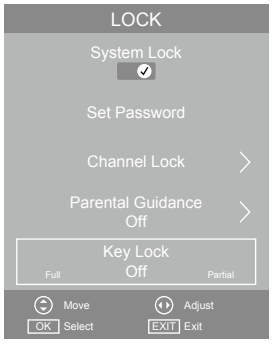
2. Press the ▲▼ buttons to select the **Enter Password**. Use the **0-9** buttons to input a 4-digit password to enter the **Lock System** menu.



⚠ The default password is "**0000**".
If you change the password, be sure to remember the new password! If you forget the new password, enter the master password"**8899**".

3. Ensure the **System Lock** is set to **On**. Press the ▲▼ buttons to select **Key Lock** and then press the ◀▶ buttons to select **Off / Partial / Full**.
If you perfer just only the ⏻ button on the TV is activite, please select **Partial**. If you perfer all keys are lock in the TV, please select **Full**.

4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

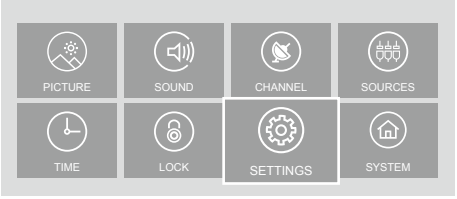


Setup Settings

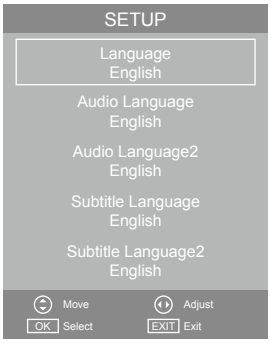
Language

Allows you to select your desired on screen menu language.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



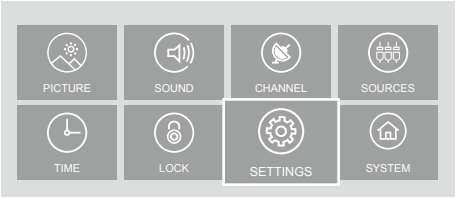
2. Press the ▲▼ buttons to select **Language**. The default on-screen menu language is English.
3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.



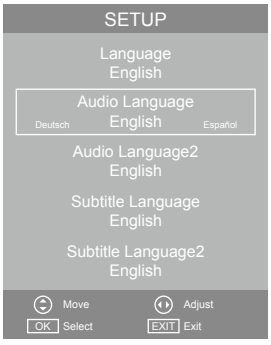
Audio Language (DTV Mode)

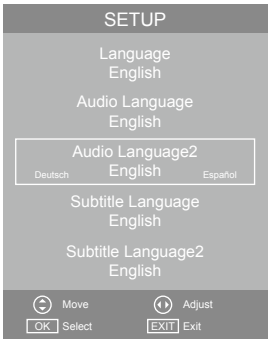
Allows you to select your desired audio language. (Available for digital channels if multiple audio languages are broadcast.) The Audio Language is used to describe the programmes when the Hearing Impaired option is switched **On**.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



2. Press the ▲▼ buttons to select **Audio Language** and then press the ◀▶ buttons to select the desired primary audio language.
3. Press the ▲▼ buttons to select **Audio Language2** and then press the ◀▶ buttons to select the desired secondary audio language.
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

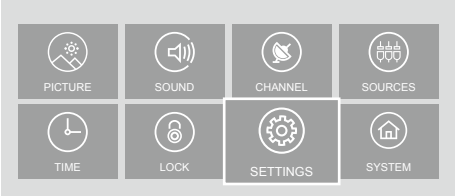




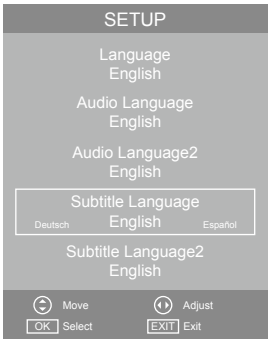
Subtitle Language (DTV Mode)

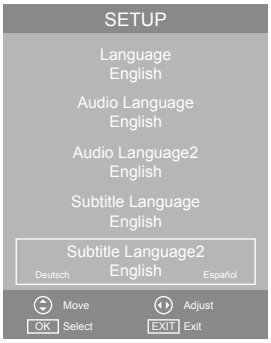
Allows you to select your desired subtitle language or turn off the subtitle. (Only applicable when the TV programme has this feature.)

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



2. Press the ▲▼ buttons to select **Subtitle Language** and then press the ◀▶ buttons to select the desired primary subtitle language.
3. Press the ▲▼ buttons to select **Subtitle Language2** and then press the ◀▶ buttons to select the desired secondary subtitle language.
4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.



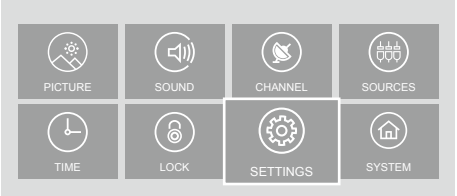


While watching a DTV programme, you can press the **S** button to display the **Subtitle Language** list and then press the ▲▼ buttons to select the **OFF** to turn off the subtitle. Press the **OK** button to confirm. (Only applicable when the TV programme has this feature.)

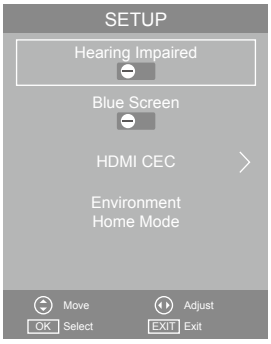
Hearing Impaired

Shows information for the hearing-impaired in some programmes. (For DTV channels only if available.)

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



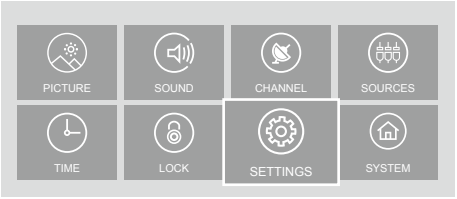
2. Press the ▲▼ buttons to select **Hearing Impaired** and then press the ◀ ▶ buttons to select **On / Off**.
3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.



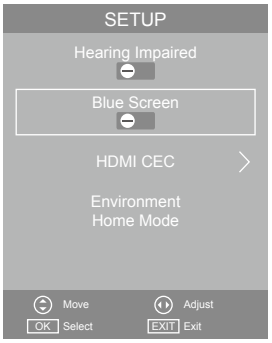
Blue Screen

Allows the blue background to turn On or Off during weak or no signal conditions.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



2. Press the ▲▼ buttons to select **Blue Screen** and then press the ◀▶ buttons to select **On** or **Off**.
3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

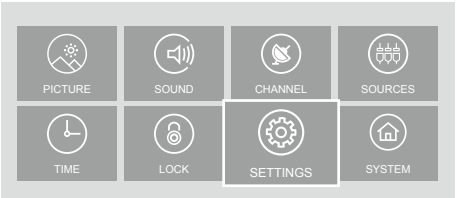


HDMI CEC Control

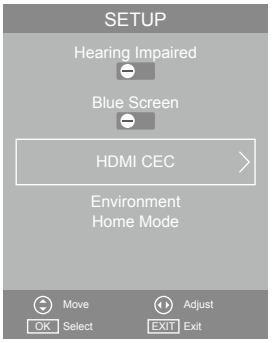
Allows you to command and control two or more HDMI CEC (Consumer Electronics Control) compliant devices, that are connected through HDMI, by using only one of the remote controls (e.g. controlling a TV set, set-top box and DVD player using only the remote control of the TV). HDMI CEC also allows individual HDMI CEC compliant devices to command and control each other without user intervention.

Make sure that your HDMI CEC-compliant device is connected to your TV using a HDMI cable and the correct HDMI input source is selected prior to using this function. (Some HDMI cables may not support HDMI-CEC functions.)

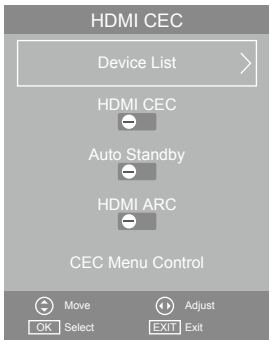
1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



2. Press the ▲▼ buttons to select **HDMI CEC** and then press the **OK** button to enter **HDMI CEC** menu.



3. Press the ▲▼ buttons to select the following options, and then press ◀▶ buttons to adjust each option's setting or **OK** button to select the options.



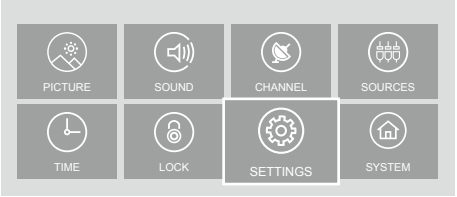
Device List	Displays a list of connected equipment that is compatible with HDMI CEC Control. Press the ▲▼ buttons and then the **OK** button to select your device.
HDMI CEC	If HDMI CEC is enabled, this will allow you to control other CEC enabled devices (connected via HDMI) using your TV remote control.
Auto Standby	If Auto Standby is enabled, when the TV is switched off, all connected equipment that is compatible with HDMI CEC Control will automatically switch to standby status. Ensure **HDMI CEC** is set to **On**. Press the ▲▼ buttons to select **Auto Standby** and then press the ◀▶ buttons to turn **On** / **OFF**.
HDMI ARC	The ARC (Audio Return Channel) function allows you to send audio from your ARC-compliant TV to ARC-compliant audio devices (e.g. home theatre) through a single HDMI connection. To enjoy the ARC function, please ensure your ARC-compliant audio devices are connected by an HDMI cable that support the ARC function to the **HDMI (ARC)** socket of your ARC-compliant TV. When correctly set up, you can use your TV remote control to adjust the volume output (VOL +/– and MUTE) of the connected audio device. Ensure **HDMI CEC** is set to **On**. Press the ▲▼ buttons to select **ARC** and then press the ◀▶ buttons to turn **On**. ⚠ • Ensure the audio device supports the ARC function and is connected to the correct HDMI input source. • Ensure to use an HDMI cables that can support the ARC function. • The HDMI ARC only works on the **HDMI (ARC)** input on the TV. • If the ARC-compliant audio devices do not support sound that TV outputs, such as Dolby Digital, or Dolby Digital Plus, then ARC function will not work and there may be no sound from ARC-compliant audio devices. In this case, please set **Digital Audio Output** to **PCM**. • Please refer to your ARC-compliant devices' guidebook for more details on the operation of the HDMI ARC function. • Ensure **HDMI CEC** is set to **On**. • If an **HDMI ARC** is set to **ON**, **Digital Audio Output** in **Sound** menu will only can select **PCM** and **Auto** (please ref to page 27 for details).
CEC Menu Control	To display the setup menu of the connected HDMI-CEC compliant devices on the screen. Press the ▲▼ buttons to select **CEC Menu Control** and then press the **OK** button or the ▶ button to enter sub-menu. Use the ▲▼ buttons and then press the **OK** button or the ▶ button to select **CEC Menu** / **Option** / **Content** to operate the equipment. You can use the ◀▲▼▶ buttons to navigate through the setup menu (some HDMI-CEC compliant devices may not support this function). For details operations on the connected devices, please refer to the user manual of the device for available control.

4. Press the **MENU** button to return to return to the main menu or press the **EXIT** button to exit the menu.

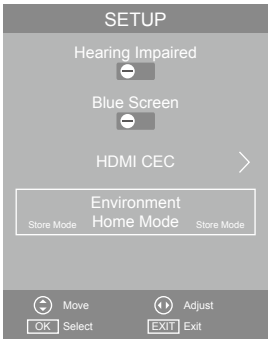
Environment

Allows you to select Home mode to maximize energy efficiency or Store mode if you would like your picture to be brighter.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SETTINGS** and then press the **OK** button.



2. Press the ▲▼ buttons to select **Environment** and then press the ◀▶ buttons to select **Home Mode** or **Store Mode**. If select **Store Mode**, a pop-up menu will be display. Press the ◀▶ buttons to select **Yes** to confirm or press any button to cancel and return to the **Environment** menu.



Home Mode	Intended for use in home environment.
Store Mode	Intended for use in retail environment.

For the best picture quality in your home environment, we recommend setting the TV to **Home Mode**.

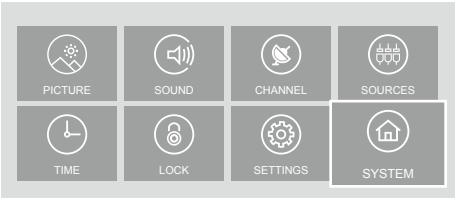
3. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

System Setting

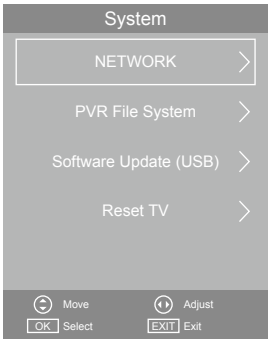
Network Configuration

Adjust all your network setting and check your connection if you are having connection problems.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **System** and then press the **OK** button.



2. Press the ▲▼ buttons to select **NETWORK** and then press the **OK** button to display the Network setting window.



3. Press the ▲▼ buttons to select the following options, and then press the ◀▶ buttons or **0-9** buttons to adjust each option's setting or the **OK** button to select the options.

IP Config	Press the ◀▶ buttons to select **Auto Mode** or **Manual Mode**. If **Manual Mode** is selected, use the ▲▼ buttons to select **IP**, **Netmask**, **Gateway** and **DNS**. Then press the **OK** button, and use **0-9** buttons to enter the values. It also display **MAC Address** in **IP Config** menu. Finally, press the **OK** button to connect the setting.
Network Info	Display the network information.
Network Test	Press to test the network.

4. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

PVR File System (DTV Mode)

Allows you to select your preferences in the PVR File System.

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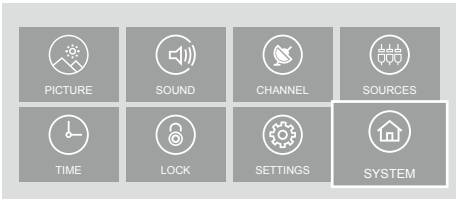
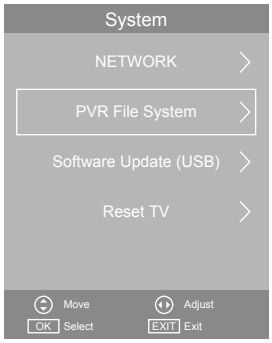
5. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **System** and then press the **OK** button.



6. Press the ▲▼ buttons to select **PVR File System** and then press the **OK** button.



7. Press the ▲▼ buttons to select the following PVR File System options and then press the **OK** button. Press the **MENU** button to return to the previous menu.

Select Disk	Press the ◀▶ buttons to select the disk where you want to store your recorded content.
Timeshift Size	Press the ◀▶ buttons to adjust your preferred file size.
Format Start	Press the **OK** button, a pop-up window will display. Press the ◀ button to select "**Yes**" and then press the **OK** button to start formatting.
Speed Check	This shows the transfer rate of your USB storage device.

8. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.

Software Update (USB) (DTV Mode)

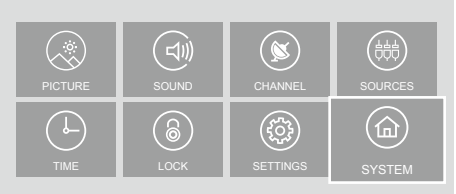
This function is only for servicing purposes. Any update information for this TV (if any) will be available at the following website or contact the our call centre:

- For UK, **www.knowhow.com** or call our UK Call Centre on **0344 561 1234**.
- For Ireland, **www.knowhow.ie** or call our Ireland Call Center on **1 890 818 575**.

Reset TV

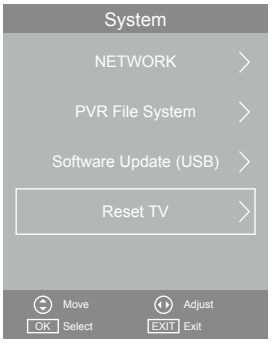
Restores all settings to the factory defaults.

1. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **System** and then press the **OK** button.



2. Press the ▲▼ buttons to select **Reset TV** and then press the **OK** button.

3. A pop up window will be displayed. Press the ◀ button to select "**Yes**". The TV will turn off and restart after a few seconds.
Press the ▶ button to select "**No**" to cancel and return to the previous menu.



All channel and user settings will be lost and the TV will revert to "First Time Installation".

EPG (Electronic Programme Guide) (DTV Mode)

This system has an Electronic Programme Guide (EPG) to help you navigate through all the possible viewing options.

The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of programme information will vary, depending on the particular broadcaster).

This function can be used only when the EPG information is broadcast by broadcasting companies.

The EPG displays the programme details for the next 7 days.

Switch On / Off EPG

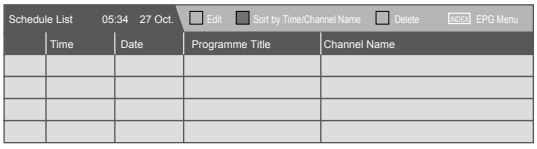
1. Press the **GUIDE** button to switch on EPG.
2. Press the **GUIDE** button or the **EXIT** button again to switch off EPG and return to normal TV viewing.

Select a Programme

Press the ▲▼ buttons to select the desired channel and then press the ◀▶ buttons to select the desired programme.

Button Functions in a 7-Day Guide

Remote Control Button	Function
RED (Record)	• Display the **Record setting** menu. • Delete the selected preset reminder in the **Schedule List**.
YELLOW (Prev Day)	View the schedule of the previous day in **EPG**.
BLUE (Next Day)	• View the schedule of the next day in EPG. • Sort the programme by time or by channel name in the **Schedule List**.
GREEN (Remind)	• Display the **Reminder setting** menu. • Press the ▲◀▶▼ buttons to adjust the settings and then press the **OK** button to confirm the settings. After confirmation, the **Schedule List** will then be displayed with your preset reminders shown. Press the **GREEN** button to return to the EPG. The TV will automatically tune to the selected programme when it starts.
i (Info)	Press to display detailed information of the selected programme (if available).
INDEX (Schedule List)	• View the preset reminders in the **Schedule List**. • Press again to return to the EPG.
▲ or ▼	Press to select a channel / programme / preset reminder.
◀ or ▶	• Switch a between channel window or programme window in EPG. • Adjust the settings in **Schedule List** or **Reminder**.
OK	View the selected programme information.
GUIDE / EXIT	Switch off the EPG.



Red Button (Interactive Services) (DTV Mode)

Red button services are available on BBC TV and Radio channels. The services are gradually changing to an internet based service rather than the conventual over air (though your aerial). To make the most out of the Red Button services make sure your TV is connected to the internet.

Accessing the Information

1. In DTV mode press the **TEXT** button to display the main information page. You may see slightly different looking pages depending if your TV is accessing the page over air or via the internet.

2. Follow the instructions on the interactive services page and move around the page by pressing the ▲◀▶▼, **OK**, **RED**, **GREEN**, **YELLOW**, **BLUE** or **0-9** buttons etc.

   To change digital teletext services, you will need to exit the current text service and change channels. Then enter the text service on the newly selected channel.

Over Air Red Button Services

Alternative

You may press the **RED** button to display the interactive services information when you see a red "press ●" logo in the top right corner of the screen (e.g. BBC services). This will now display the Red Button menu and available information categories.

To access the pages, use navigation buttons to highlight item required and press the **OK** button to select.

Follow on screen prompts for other functions.

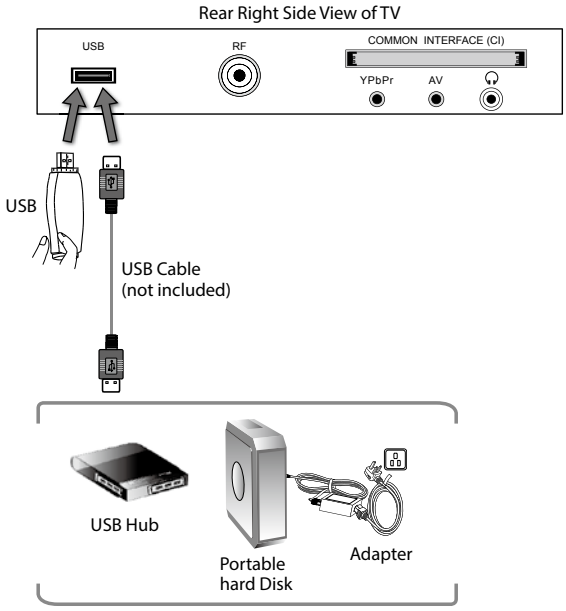
3. Press the **TEXT** button to exit.

Chapter 7 Entertainment

Connecting a USB Storage Device

1. Switch off the TV before connecting any USB storage device.
2. Connect your USB storage device to the USB port of your TV.
3. Plug the connected devices into the mains socket before switching on the TV.
4. Press the ⏻ button on the rear panel of the TV or on the remote control to turn on your TV and your USB storage device.
5. Press the **INPUT** button on the TV or on the remote control to display the **Input Source** list. Use the ▲▼ buttons to select **USB** and then press the **OK** button to confirm.

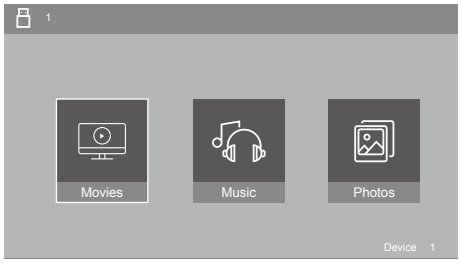
If you want to select other input source from USB source. Press the **EXIT** button in main menu, a **Input Source** List will be display.



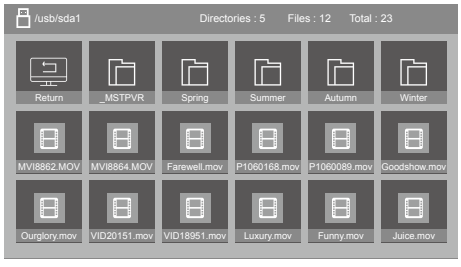
- If a hard disk is used, make sure its mains adapter is connected to the mains supply.
- If a USB hub is used, make sure its mains adapter is connected to the mains supply as the total current consumption may exceed 500mA.
- The maximum supported storage space of the hard disk is 2 TB (FAT16/32), 4TB (NTFS).
- The file system only supports FAT16/32, NTFS format.
- If you want to store the video streaming of a DTV programme, the transfer rate of the USB storage device must not be less than 5MB/s, otherwise the picture and sound of the programme will be affected and a warning statement will be shown on the screen. If this happens, please upgrade your USB storage device.
- The TV screen will be blank temporarily as it will take time to start up and stabilise the connected hard disk. This is normal and the starting time may vary depending on the brand and the memory size of the connected hard disk.
- Disconnect the USB storage device if it is not in use.
- Supports USB2.0 only.

Viewing Movies

1. Press the **INPUT** button then press the ▲▼ buttons to select the **USB** mode and then press the **OK** button.
2. Press the ◀▶ buttons to select **Movies** and then press the **OK** button.
3. Press the ◀▶ buttons to select your storage device and then press the **OK** button.



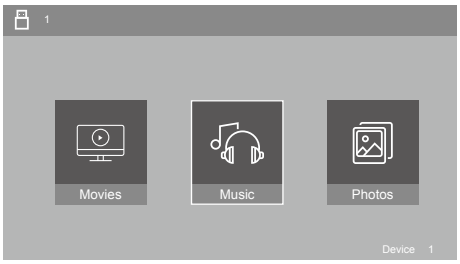
4. Press the ▲▼ buttons to navigate in the movie folder and then press the **OK** button to view.



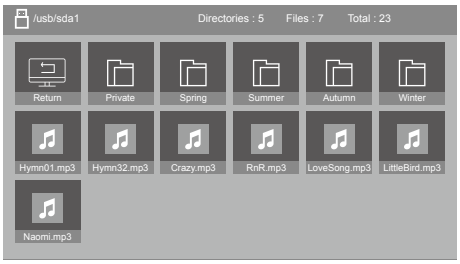
5. Press the **OK** button or the **i** button to display the function bar. Press the ◀▶ buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / FB / FF / Repeat / A-B Repeat / GOTO / ZOOM IN / ZOOM OUT / Playlist / Info.
6. Press the **EXIT** button to return to the previous menu.

Listening to Music

1. Press the **INPUT** button then press the ▲▼ buttons to select the **USB** mode and then press the **OK** button.
2. Press the ◀▶ buttons to select **Music** and then press the **OK** button.
3. Press the ◀▶ buttons to select your storage device and then press the **OK** button.



4. Press the ▲▼ buttons to navigate in the file list. The music information (Title / Artist / Album / Track / Year / Date / File Size) will be displayed in player window. Press the **OK** button to play.

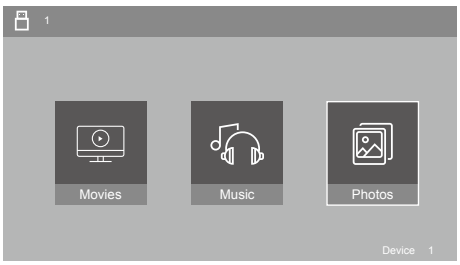


- Some audio file formats will not be supported.
- Supported file formats: mp3.

5. Press the **MENU** button to display the function bar. Press the ◀▶ buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / FB / FF / Repeat / Play List / Info / TimePlay.
6. Press the **EXIT** button to return to the previous menu.

Viewing Photos

1. Press the **INPUT** button then press the ▲▼ buttons to select the **USB** mode and then press the **OK** button.
2. Press the ◀▶ buttons to select **Photos** and then press the **OK** button.
3. Press the ◀▶ buttons to select your storage device and then press the **OK** button.



4. Press the ▲◀▶▼ buttons to navigate in the picture folder and then press the **OK** button to play the slideshow.
5. Press the **MENU** button to display the function bar. Press the ◀▶ buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / Rotate (–) / Rotate (+) / Zoom IN / Zoom OUT / Move / Repeat (Sequence / Radom / None / One) / Play List / Info.
6. Press the **EXIT** button to exit the slideshow and return to the previous menu.

Chapter 8 PVR (Personal Video Recorder)

Time Shift Function

This function allows you to pause live TV. The picture will pause and the programme will begin recording so you will not miss any of the programme. You need to have a USB storage device attached to the USB socket for Time Shift Recording to work.

- Time Shift Mode and Recording functions may not work if the signal strength is weak.
- Stop the time shift function before switching to another input source.

If the transfer rate of the USB storage device is too slow for recording or time shift function, a warning statement will be shown on the screen. If this happens, please upgrade your USB storage device. The minimum transfer speed is 5MB/s.

During normal TV viewing, you may press the ▶II button to pause the live programme if you want to go out for a while (e.g. going to the bathroom / kitchen). The PVR Time Shift progress bar will be displayed on the screen.

When you have returned, press the ▶II button to play the missed broadcast programme.

The video and sound may have a little bit of delay or be out-of-sync for a few seconds when the unit starts to playback the missed broadcast programme. It will soon turn to normal.

The 'PVR Time Shift Progress Bar'

1 Indicates the time lagging behind the live broadcast (PVR reviewing)

2 Indicates the used space on your USB storage device

Using the Remote Control

You can shift playback to any point of the virtually recorded programme.

◀◀ or ▶▶	When playing, • Press the ◀◀ button repeatedly to speed up ◀◀ x 2 / x 4 / x 8 / x 16 / x 32. • Press the ▶▶ button repeatedly to speed up ▶▶ x 2 / x 4 / x 8 / x 16 / x 32. • During fast forward / fast backward state, press the ▶II button to return to normal playback.
⏮ or ⏭	• Press the ⏭ button to jump about 10% forward. • Press the ⏮ button to jump about 10% back.
▶II	• During playback, press the ▶II button to display a still screen and then press the ▶II button again to resume playback. • During fast forward / fast backward state, press the ▶II button to return to normal playback.
■	If you want to exit the PVR Time Shift progress bar and return to the current live broadcast, press the ■ button. A pop up menu will be displayed. Press the ◀ button to select **YES** to stop Time Shift.
GOTO	Skip to a specific location during playback.
SLOW	Play video slowly (x 2 / x 4 / x 8 / x 16 / x 32). Press the ▶II button to return to normal playback.

Recording DTV Programme onto a USB Storage Device

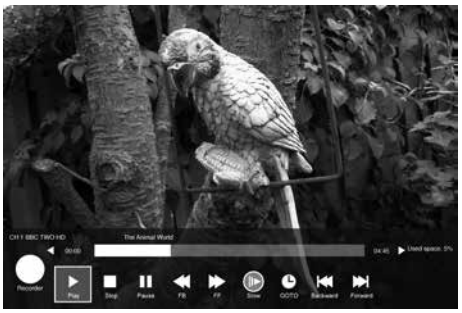
Use this function to record the DTV programme you are watching on the main screen and save it for future viewing.

The recording from timer programme or direct recording may have a little bit of delay when it starts to record the broadcast programme.

Please make sure the USB device is inserted. If not, a warning message will pop up.

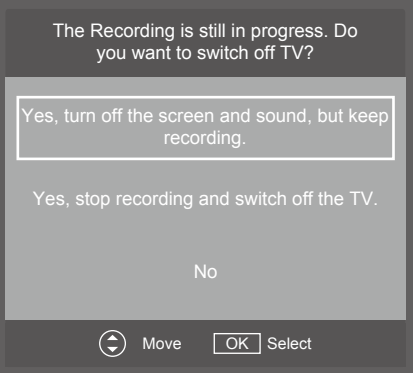
---

1. Press the ● button to record the programme that you are currently watching. The recording progress bar will appear later.
2. Press the ● button again, the recording progress bar will disappear and the REC logo will be displayed at the top left corner. If you want to display the recording progress again, press the ● button.
3. If you want to stop recording, press the ■ button. A pop up menu to be displayed, press the ◀ button to select **YES** to stop recording.



Recording will stop automatically when the disk is full.

If you want to turn off your TV during recording, press the ⏻ button. A dialogue will display.



Press the ▲▼ buttons to select your desired option and then press the **OK** button to confirm.
If you select the lower option in the box, the screen will turn off but the recording will still in progress, the LED indicator will flash red.
If you want to keep watching the TV and keep recording the programme, press the **EXIT** button.

Timer Programming

This function is used to perform scheduled recording.

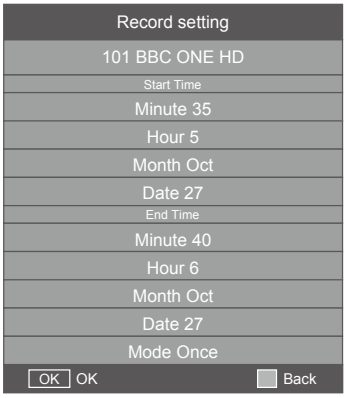
The recording from timer programme or direct recording may have a little bit of delay when it starts to record the broadcast programme.

Please make sure the USB device is inserted. If not, a warning message will pop up.

---

1. Press the **GUIDE** button. The **EPG** menu will appear.

2. Press the **RED** button while on the selected programme, the **Record setting** menu will be displayed. The recording time for the selected programme will be automatically set. If you want to adjust the time, press the ▲◀▶▼ buttons to select the settings in the **Record setting** menu for the Channel, Start time, End time and Mode.



Channel	Press the ◀▶ buttons to select the channel that you want to record.
Start time (for Mode Once, Every Day, Weekly)	Press the ▲▼ buttons to select the Minutes / Hour / Month / Date and then press the ◀▶ buttons to adjust the start time.
End time (for Mode Once, Every Day, Weekly)	Press the ▲▼ buttons to select the Minutes / Hour / Month / Date and then press the ◀▶ buttons to adjust the end time.
Mode	Press the ◀▶ buttons to select the Once / Every Day / Weekly.

3. After finishing all the recorder adjustments, press the **OK** button to confirm your settings.

- After confirmation, you can press the **INDEX** button to view your scheduled recording in the **Schedule List**.
- If a programme recording starts when the TV is in standby mode, the LED indicator will flash red.

Playing Recorded Programme

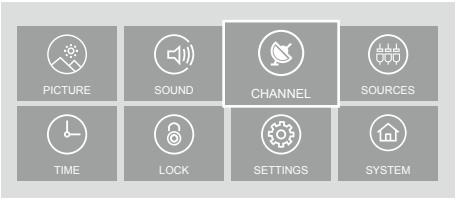
You can play a recorded programme from the recorded programme list in DTV mode.

1. Press the **INPUT** button then press the ▲▼ buttons to select the **Digital TV** mode and then press the **OK** button.

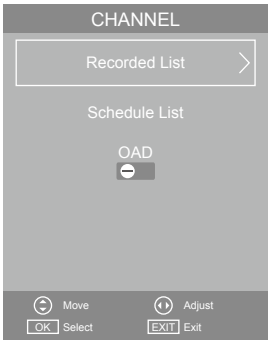
Alternative

Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **SOURCES** menu and then press the **OK** button. Press the ▲▼ buttons to select the **Digital TV** mode and then press the **OK** button to confirm.

2. Press the **MENU** button to display the main menu. Press the ◀▲▼▶ buttons to select the **CHANNEL** menu and then press the **OK** button.



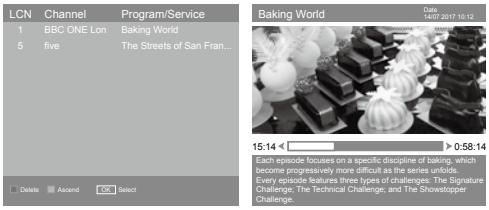
3. Press the ▲▼ buttons to select **Recorded List** and then press the **OK** button to display the **Recorded List**.



4. Press the ◀▲▼▶ buttons to navigate the list and then press the **RED** button to delete the desired recorded programme or the **GREEN** button to display in Ascend order or Descend order.

5. Press the **OK** button or the **i** button to display the function bar. Press the ◀▶ buttons and then press the **OK** button to select the function: Play (Play A-B) / Stop / Pause (Step) / FB (x 2 / x 4 / x 8 / x 16 / x 32) / FF (x 2 / x 4 / x 8 / x 16 / x 32) / Slow (x 2 / x 4 / x 8 / x 16 / x 32) / GOTO / Backward / Forward.

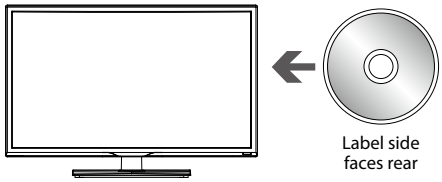
6. Press the **MENU** button to return to the main menu or press the **EXIT** button to exit the menu.



Chapter 9 Using the DVD Features

Using the Built-in DVD Player

1. Insert a disc with the label side facing towards the rear of the TV. (CD-R, CD-RW, DVD-R, DVD-RW, CD, DVD+R, or DVD+RW) Allow 10 seconds for the player to load the disc. If you insert the disc wrongly, an error message will be displayed.
2. After the disc is inserted, the TV will change the input source to **DVD** automatically and Smart NAVI will show the content of the disc automatically.
3. If the DVD player does not automatically play the disc, press the **INPUT** button to display the **INPUT SOURCE** list. Use the ▲▼ buttons to select **DVD** and then press the **OK** button to confirm. Press the ▶II button on the unit or on the remote control to start playing.
4. Press the ⏏ button on the right side panel of the TV or on the remote control if you want to remove the disc.



Unable to Read / Play Disc!

Check the direction of DVD disc.
Check if the disc is damaged.
Check if the disc is Compatible.

⚠ Only insert 12cm discs. Do not insert or play 8cm discs; they will get stuck.

Compatible Disc Types

Disc Types	Disc Logo	Recorded Content
DVD-VIDEO (Digital Versatile Disc)	DVD VIDEO	AUDIO + VIDEO
DVD±RW (Audio/Video format or JPEG files)	RW DVD+ReWritable	AUDIO + VIDEO + JPEG
DVD±R (DVD Recordable - Audio/Video format or JPEG files)	RW DVD+R	AUDIO + VIDEO + JPEG
CD-R (CD Recordable - Audio/Video format or JPEG files)	COMPACT disc Recordable	AUDIO + VIDEO + JPEG
CD-RW (CD-Rewritable - Audio/Video format or JPEG files)	COMPACT disc Rewritable	AUDIO + VIDEO + JPEG
AUDIO-CD (Compact Disc Digital Audio)	COMPACT disc DIGITAL AUDIO	AUDIO

Supported Formats

JPEG

- The file extensions has to be .jpg and not .jpeg.
- Pictures encoding must comply with JPEG/ISO format.
- This DVD player can only display DCF-standard still pictures or JPEG pictures such as TIFF.

⚠ Some recorded files may not be played due to the type and format of the disc or condition of the recording.

Region Code

Both the DVD player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.

The Region Number for this DVD player is described on the rear panel of the TV.

Disc Type	DVD-VIDEO
Region code	2

Basic DVD Playback Functions

Playing the DVD

Depending on the disc, a menu may appear on the TV screen once the disc has loaded. When playing the disc, you may use the ▶/‖ button on the unit or the ▶‖ button to toggle between Play and Pause mode. This product also supports Menu / Title / Sequential / Programme Playback.

Menu Playback (for DVD)

For DVD discs, the screen will display the DVD Disc Menu (Root Menu).
Press the ▶/‖ button on the unit or the **OK** button or the ▶‖ button to start from the highlighted content.
Press the DVD **MENU** button to return to the Root Menu when playing the disc.
For some DVD discs you may need to press the DVD **MENU** button or the **TITLE** button to display the Disc Menu.

Stopping Playback

Press the ■ button once to stop. Press the ▶/‖ button on the unit or the ▶‖ button to resume from where you stopped.
Press the ■ button twice to stop. Press the ▶/‖ button on the unit or the ▶‖ button to start from the beginning.
In order to protect the disc, press the ■ button and then press the ⏏ button on the unit or to eject the disc. When the disc is ejected, hold the disc edge slightly and remove it from the disc slot.
When not using the DVD function (in stand-by-mode or using other modes for a long period of time), please take out the disc to protect the DVD loader and the disc.

Previous / Next (for DVD / CD / Multimedia discs)

Press the ⏮ button to play the last Title / Chapter / Track.
Press the ⏭ button to play the next Title / Chapter / Track.
For DVD discs, the above functions may vary due to different DVD disc's structure.

Forward / Backward (for DVD / CD / Multimedia discs)

There are 5 forward and backward speed. Press the ◀◀ or ▶▶ button to toggle between the different speed options in sequence. (x 2 / x 4 / x 8 / x 16 / x 32 / Play).
Press the ▶/‖ button on the unit or the ▶‖ button to return to normal speed playback.
For DVD discs, when selecting backward to first title / chapter, the disc will start from the beginning.

⚠ There will be no sound during Forward or Backward.

Pause (for DVD / CD / Multimedia discs)

Press the ▶/‖ button on the unit or the ▶‖ button to pause; press the button again to resume playback.

Repeat (for DVD / CD / Multimedia discs)

Press the **REPEAT** button once to display the current repeat mode.

- For CD discs, while playing in sequence, you may use the repeat playback. There are 2 repeat modes, press the **REPEAT** button to toggle between the different repeat modes in sequence. (REPEAT (OFF) / REPEAT (TRACK) / REPEAT (ALL)).
- For DVD discs, you may setup the repeat playback mode. There are 3 repeat modes, press the **REPEAT** button to toggle between the different repeat modes in sequence. (REPEAT (OFF) / REPEAT (CHAPTER) / REPEAT (TITLE) / REPEAT (ALL)).

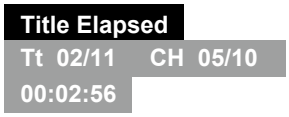
  For example, if there are two movies on the disc.
  REPEAT ALL: will repeat two movies
  REPEAT TITLE: will repeat only one selected movie
  REPEAT CHAPTER: repeat only one selected chapter of movie
- For DIVX discs, while playing the disc, you may use the repeat playback. There are 4 repeat modes, press the **REPEAT** button to toggle between the different repeat modes in sequence. (REPEAT (SINGLE) / REPEAT (ONE) / REPEAT (ALL) / SHUFFLE / RANDOM / REPEAT (FOLDER)).
- For MP3 / JPEG discs, while playing the disc, you may use the repeat playback. There are 2 repeat modes, press the **REPEAT** button to toggle between the different repeat modes in sequence. (REPEAT (OFF) / REPEAT (SINGLE) / REPEAT (FOLDER)).

Display (for DVD / Multimedia discs)

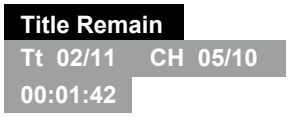
Press the **i** button to activate the on screen roll-down menu.

Press the **i** button repeatedly to turn off the on screen display.

For DVD discs, press the **i** button once to display the first page as shown below:



Press the **i** button twice to display the second page as shown below:



Press the **i** button three times to display the three page as shown below:

Press the **DISPLAY** button four times to display the four page as shown below:

For JPEG discs, press the **i** button once to display first page: Disc type, Track -/- (Current / Full).

Angle (for DVD)

Allows you to switch the viewing angle of video.

Press the **ANGLE** button repeatedly to select the different angle you want (Only for the discs has this character).

Zoom (for DVD)

Allows you to select the video size of programme stream.

Press the **ZOOM** button to select the size you want.

Goto (for DVD / CD / Multimedia discs)

This function allows you to play your favourite Title / Chapter / Time. Press the **GOTO** button to activate the on screen scroll-down menu for selecting. Input your Title / Chapter / Time by pressing the **0-9** buttons or input the playback time. After editing, press the **OK** button to start. If the input is invalid, it will not function.

- For some discs, only **Time** can be selected in the **GOTO** function.
- Different media have different result.

Audio (for DVD / CD)

Press the **AUDIO** button to toggle between different audio modes in sequence.

For CD discs: Stereo / Mono Left / Mono Right / Mix-Mono.

Some discs may contain multiple languages which can be selected by pressing the **AUDIO** button.

Repeat A-B (for DVD / CD)

When playing DVD, CD disc, press the **A-B** button to repeat certain content. Press the **A-B** button on the start point (A) and the end point (B) to select the repeat part. Press the **A-B** button a third time to cancel the **A-B** button function and return to normal playback.

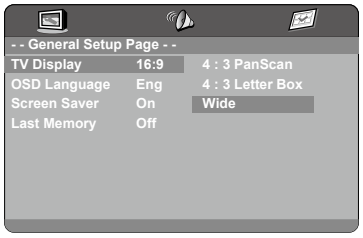
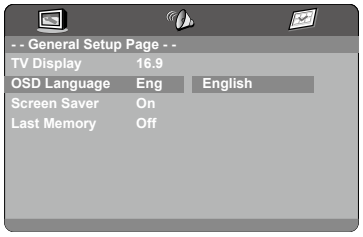
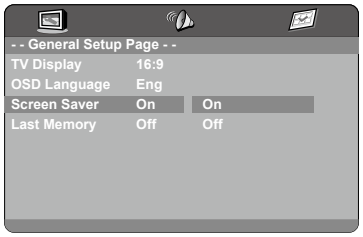
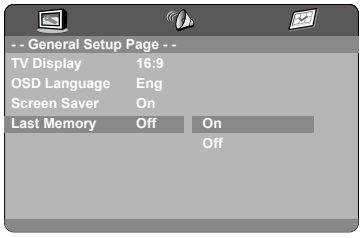
Program (for DVD)

The Program Playback option allows entering the order in which the chapters or tracks will be played, up to a maximum of 20.

Press the **PROG** button to display the **Program** Menu. According to the highlight, input your chapter / title number by pressing the **0-9** buttons and use the ▼ button to highlight the **Start** item on the screen. Press the **OK** button to confirm. The chapters / title will play in the programmed order. During program playback, press the **PROG** button, the programmed order and the contents will be displayed on the screen. To clear the programmed order, use the ▲◀▶▼ buttons to highlight the **Stop** item, then press the **OK** button. To modify the programmed order, use the ▲◀▶▼ buttons to highlight the modifying item and enter the new chapter / title you want to program directly.

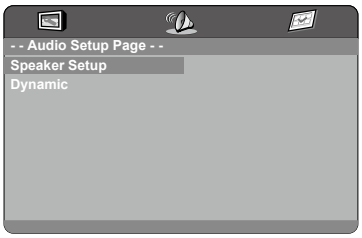
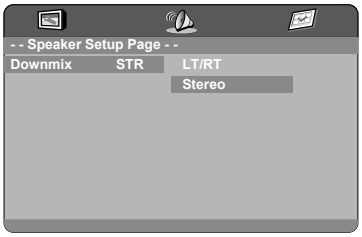
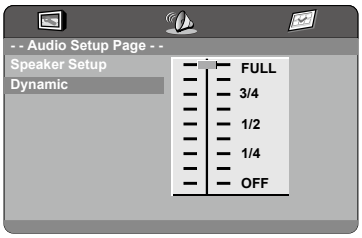
Using the DVD General Setup Page

In the DVD mode, press the **DVD SETUP** button. Press the ◀▶ buttons to select the **General Setup Page** menu, and then press the ▲▼ buttons to select the menu options. Press the **DVD SETUP** button to exit the menu.

	Option	Description
	**TV Display**	**4:3 PanScan** Widescreen picture shown in the full screen with some part cut. **4:3 LetterBox** Widescreen picture shown in the full screen with black bars on the top and bottom of the screen. **Wide** Widescreen picture shown in the full screen.
	**OSD Language**	Set the OSD language to your language of choice. The default language is English.
	**Screen Saver**	When the player stops or the picture becomes motionless for a couple of minutes, there will be a screen saver to prevent damage to the display screen. **ON**: To activate screen saver. **OFF**: To disable screen saver.
	**Last Memory**	**ON**: Shutdown the TV before the settings for memory, re-boot the machine setting. **OFF**: Every time the TV automatically switched back to the default settings.

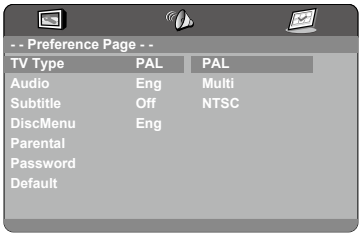
Using the DVD Audio Setup Page

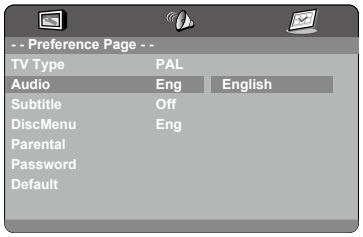
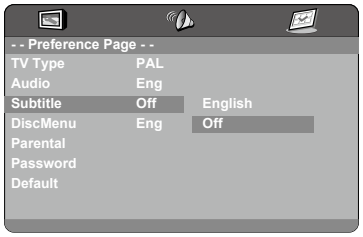
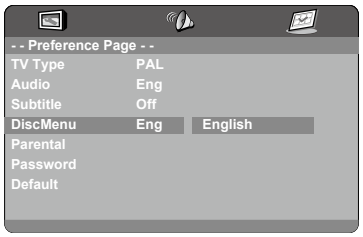
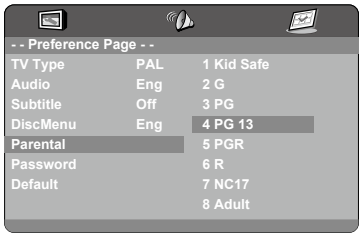
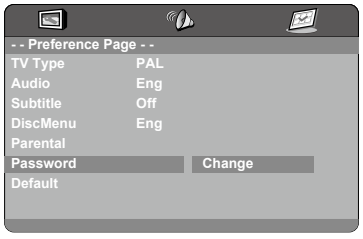
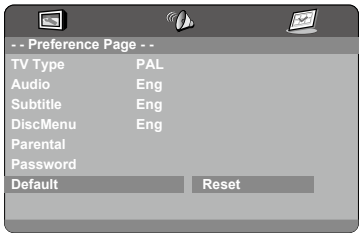
In the DVD mode, press the **DVD SETUP** button. Press the ◀▶ buttons to select the **Audio Setup Page** menu, and then press the ▲▼ buttons to select the menu options. Press the **DVD SETUP** button to exit the menu.

	Option	Description
 	**Speaker Setup / Downmix**	**LT/RT** Mixed stereo LT/RT output. **Stereo** Mixed stereo surround output.
	**Dynamic**	This is used to set the compression ratio in order to control the sound (volume) contrast.

Using the DVD Preference Setup Page

In the DVD mode, press the **DVD SETUP** button. Press the ◀▶ buttons to select the **Preference Setup** menu, and then press the ▲▼ buttons to select the menu options. Press the **DVD SETUP** button to exit the menu.

	Option	Description
	**TV Type**	In order for the disc to play, the colour system of the DVD player, disc and TV should match. **PAL** This is the format used in UK. **Multi** This format can be used if your TV / DVD is capable of both PAL and NTSC formats and this is the default setting. **NTSC** This format is used by some other countries, e.g. USA. PAL format is generally used for TV's in the UK. If NTSC is selected with a non-compatible television, you may experience interference or picture scrolling.

	Option	Description
	**Audio**	Set the Audio language to your language of choice. Not all DVD discs support multiple audio languages.
	**Subtitle**	Select the Subtitle language. Not all DVD discs support multiple audio languages.
	**DiscMenu**	Select the Disc Menu language. The default language is English.
	**Parental**	Allows the user to set a maximum rating level for a movie that can be played (e.g. PG rating). Movies rated higher than the level set will not be played. The parental lock can only be changed after inputting the correct password. This function is available only when the discs have ratings encoded on them.
	**Password**	**Password Change** To change the password, you need to: 1. Input old password. (For initial use, please enter factory default password "**136900**".) 2. Input a new 6 digit password and then press the **OK** button to confirm.
	**Default**	**Default** To restore all setup parameters to the factory settings EXCEPT the password and parental lock status. This function is available in stop state or when the tray is opened.

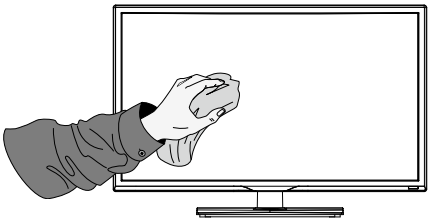
Chapter 10 Other Information

Maintenance

Careful and regular cleaning can prolong the life of your TV.

Be sure to press the ⏻ button on the rear panel of the TV or on the remote control to turn off the TV. Disconnect the mains cable from the mains socket before any cleaning.

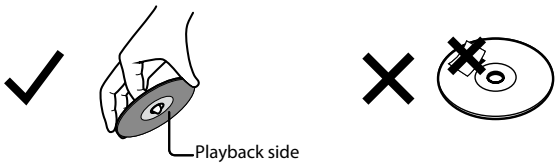
1. Use a soft dry cloth to wipe away the dust from the screen and surfaces.
2. If the surfaces are extremely dirty, clean the TV with a cloth which has been dipped in a slightly soapy water. Wring the cloth until it is almost dry, then use it to wipe the TV.
3. Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching the TV on.



- Never use alcohol, benzine, paint-thinner, cleaning fluid or other chemicals.
- Do not use compressed air to remove dust.

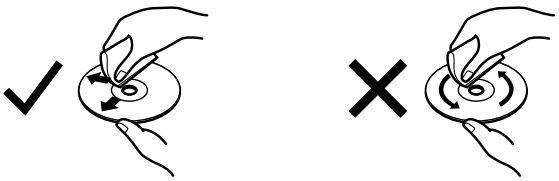
Handling Discs

- Do not touch the playback side of the disc.
- Do not attach paper or tape to the disc.



Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray. They may damage the disc.

Storing Discs

- Do not store discs in places subjected to direct sunlight or near heat sources.
- Do not store discs in places subjected to moisture and dust such as a bathroom or near a humidifier.
- Storing discs vertically in a case, stacking discs or placing objects on discs outside of their cases may cause warping.

Hints and Tips

The following table contains various hints and tips to get the best performance from your TV. If you require additional assistance:

- For UK, please call our UK Call Centre on **0344 561 1234**.
- For Ireland, please call our Ireland Call Center on **1 890 818 575**.

The TV does not operate properly.	
The TV does not respond when pressing any buttons	• The TV may freeze up during use. Disconnect the mains plug from the mains socket for a few minutes. Reconnect the mains plug and try to operate it again as usual.
TV cannot be switched on	• Check that the TV is connected to the mains supply is switched on. • Make sure all connected AV devices are switched off before switching on your TV.
The remote control does not work	• Check to see if there are any objects between the TV and the remote control causing an obstruction. Ensure that you are pointing the remote control directly at the TV. • Ensure that the batteries are installed with the correct polarity (+ to +, - to -). • Install new batteries.
Power is suddenly turned off	• Check the power of the TV. The mains supply maybe interrupted. • Check if the sleep timer is set. • Check whether the Auto Standby is activated.
Can't view Saorview channels	• Check that you have selected the correct country when tuning in your TV. For ROI select **IRELAND**. • You will only receive Saorview channels in ROI, retune your TV making sure to select **IRELAND** as your country.

The video function does not work.	
No Picture & No Sound	• Check whether the TV is switched on. • Try another channel. The problem may be caused by the broadcaster.
Picture appears slowly after switching on	• This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	• Adjust the settings in the **PICTURE** menu. • Try another channel. The problem may be caused by the broadcaster. • Check if the video cables are connected properly.
Horizontal / Vertical bar or picture shaking	• Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	• Station or cable channel may be experiencing problems, tune to another station. • Station signal is weak, reposition the aerial for better reception. • Check for sources of possible interference.
Lines or streaks in pictures	• Check aerial (Change the position of the aerial.)
No pictures when connecting HDMI	• Check if the input source is **HDMI**.
Picture appears in wrong ratio	• Adjust the **Aspect Ratio** settings in the **PICTURE** menu or press the **ASPECT** button on the remote control.

The audio function does not work.	
Picture OK but no sound	• Press the **VOL** + / – buttons on the rear panel of the TV or on the remote control. • Sound muted? Press the 🔇 button. • Try another channel. The problem may be caused by the broadcaster.
No output from one of the speakers	• Adjust the **Balance** settings in the **SOUND** menu.
Unusual sound from inside the TV	• A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.

No sound when connecting HDMI	• Check if the input source is **HDMI**.
Audio noise	• Keep the RF coaxial cable away from other connected cables.
Distorted sound	• Adjust the **SOUND MODE** setting in the **SOUND** menu, depending on the type of program you are watching. • If still have distorted sound, switch off the **DTS TruSurround** in **SOUND** menu, then re-adjust the **SOUND MODE** setting in the **SOUND** menu.

Password	
Lost password	• Select the **New Password** setting in the **Lock System** menu, then enter the following master password "**8899**". The master password clears your previous password and allows you to enter a new password.

The DVD function does not work.	
DVD will not read the disc	• Check if the disc is correctly inserted. • Check that the disc is clean. • Check if there is any obvious damage to the disc. • Try to play the disc on another DVD to check whether it has content.
DVD does not have the signal	• Check if the TV is in DVD mode.
Lost DVD password	• Select **Password** in the **Preference Page** of **DVD** menu, then enter the following master DVD password "**136900**". The master password clears your previous password and allows you to enter new password.

There is a problem in PC mode.	
The signal is out of range (Invalid format)	• Adjust the resolution, horizontal frequency, or vertical frequency.
Vertical bar or stripe on background & horizontal incorrect position	• Use Auto configure or adjust clock, phase, or H/V position.
Screen colour is unstable or shows a single colour	• Check the signal cable. • Reinstall the PC video card.

Channels are not recording.	
Not all channels record	• You can only record free to air channels. • You may have you run out of space on your USB storage device. Delete some files or use another USB storage device. • Check that there were no recording conflicts from scheduled series recordings.

FAQs (Frequently Asked Questions)	
Why have I lost some / all of my channels?	• It happens sometimes if you have a weak signal. Usually it just means you'll need to re-scan your digital box or TV. Don't worry, it is easy to do. And once you've done it, you should get all the Freeview channels available to you. If problems persist you may need to get your aerial checked. Talk to your retailer or contact your local aerial installer.
Why do I get 'blocking' on my digital picture?	• In most cases, blocking is caused by a reception problem – either the signal is too weak or there is some kind of interference. Talk to your retailer or contact your local aerial installer. • Blocking can also be caused by a digital signal that is too strong. If you are still experiencing blocking and the signal is strong, consult your local aerial installer for advice.

Can I watch Freeview using a portable set-top aerial?	• Some, but only a few, homes may be able to use a set top aerial. However, for a much better reception, we strongly recommend that you use a rooftop aerial. • If you do not have access to a rooftop aerial – for example, if you rent a flat and the aerial is the responsibility of your landlord, or if you're using a second TV in the bedroom and don't want the hassle and expense of using extension cables, a set top aerial may be your only option.
What type of aerial do I need?	• If you are installing a new aerial, we recommend a wideband rooftop aerial rather than a loft aerial. Loft aerials generally receive a weaker digital signal and are more likely to get interference from other electrical devices at home. We suggest you have an aerial survey done before getting an aerial upgrade. • Talk to your retailer or contact your local aerial installer.
Why the TV haven't received any signal from external device?	• Power reset the TV and the connected device. • Ensure that the external device is turned on and properly connected to the correct TV's socket. • Select the correct input source.

Display Modes

The screen resolution has been optimised during production for the display modes listed below.

Although this TV is compatible with a 1080i/1080p input, it is possible that the screen may not display the exact resolution this resolution and consequently the picture quality will be adjusted accordingly.

YPbPr Mode

Resolution	Vertical Frequency (Hz)	Aspect Ratio
480I: 720 x 480	60	Auto / 4:3 / 16:9 / Smart Zoom / Zoom / Full / Subtitle
480P: 720 x 480		
576I: 720 x 576	50	
576P: 720 x 576		
720P: 1280 x 720	50	
	60	
1080I: 1920 x 1080	50	
	60	
1080P: 1920 x 1080	50	
	60	

PC Mode

Please check the display settings of your computer before connecting to the TV. If the display setting of your computer does not match the TV, there may be no video.

Resolution	Vertical Frequency (Hz)	Aspect Ratio
640 x 480	60	4:3 / 16:9
	72	
	75	
800 x 600	60	
	72	
	75	
1024 x 768	60	
	70	
	75	
1360 x 768	60	
1366 x 768	60	

HDMI Mode

Resolution	Vertical Frequency (Hz)	Aspect Ratio
480I: 1440 x 480	60	Auto / 4:3 / 16:9 / Smart Zoom / Zoom / Full / Subtitle
480P: 720 x 480	60	
576I: 1440 x 576	50	
576P: 720 x 576	50	
720P: 1280 x 720	50	
	60	
1080I: 1920 x 1080	50	
	60	
1080P: 1920 x 1080	24	
	50	
	60	

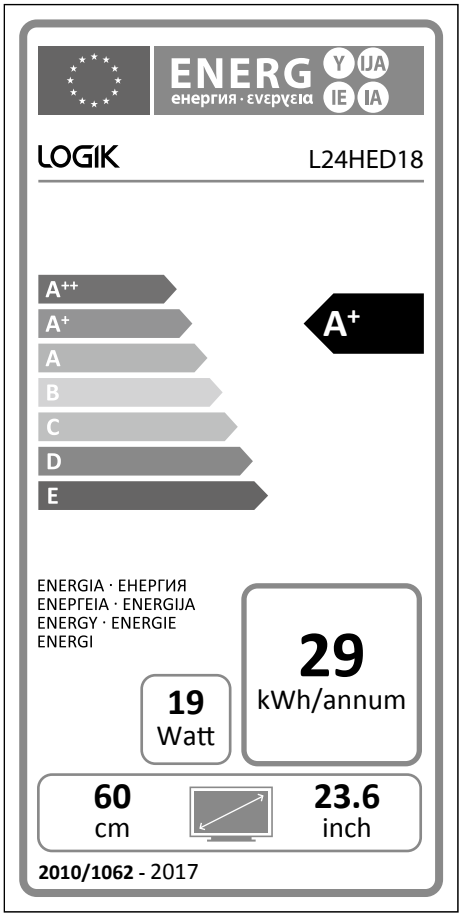
Product Fiche and Specifications

Brand	**Logik**
Model	**L24HED18**
Energy Efficiency Class	A+
Screen Size (measured diagonally)	Approx. 60 cm (23.6 inch)
Power Consumption (In HOME mode)	19.4 W
Average Annual Energy Consumption * (Please refer to *1 under this table)	29 kWh
Standby Power Consumption	0.40 W
Display Resolution	1366 pixels (horizontal) x 768 pixels (vertical)
Panel System	23.6 inch LED Backlit LCD Panel
Television System	PAL I / SECAM L / BG / DK
Brightness	200 cd/m^2
Contrast Ratio	3000:1
Peak Luminance (On-Mode/Home Mode)	73%
Power Source	100-240V~50/60Hz
Off Power Consumption	N/A
Operating Temperature	0°C – 40°C
Operating Humidity	10% – 80%
Mercury Content (mg)	2.0 mg
Presence of Lead * (Please refer to *2 under this table)	√
Reference Period	2010/1062 – 2017
Speaker Power	3 W + 3 W
Dimension (W x D x H) with base	554 x 146 x 375 mm
Weight (Net)	3 kg
Inputs / Output	
SCART	1
HDMI	1
PC IN	1
PC AUDIO	1
YPbPr	1
Common Interface	1
AV	1
Digital Audio Output (Coaxial)	1
USB	1
Aerial	1
Headphone (3.5mm)	1

Features and specifications are subject to change without prior notice.

*1 Energy consumption per year based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used.

*2 This television contains lead in certain parts or components where no technology alternatives exist in accordance with existing exemption clauses under the RoHS Directive.


ENERG
енергия · ενεργεια
LOGIK
L24HED18
A++
A+
A
B
C
D
E
A+
ENERGIA · ЕНЕРГИЯ
ЕΝΕΡΓΕΙΑ · ENERGIJA
ENERGY · ENERGIE
ENERGI
29
kWh/annum
19
Watt
60
cm
23.6
inch
2010/1062 - 2017

Remote Control Code

Sky Code

The code for controlling your TV using a Sky Remote Control is **3460**. For instruction on how to use the code, see your Sky instruction manual.

Useful Information and Licences

Team Knowhow

Help with all life's kit™

For general information about appliances and handy hints and tips, please visit **www.TeamKnowhow.com/discover** or call **0344 561 1234 (UK)** **1890 818 575 (Ireland)**

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The symbol on the product or its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more information about where you can drop off your waste for recycling, please contact your local authority, or where you purchased your product.

Notes for Battery Disposal

The batteries used with this product contain chemicals that are harmful to the environment. To preserve our environment, dispose of used batteries according to your local laws or regulations. Do not dispose of batteries with normal household waste.

For more information, please contact the local authority or your retailer where you purchased the product.

MPEG-2 NOTICE

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For Help and Support Call
UK: 0344 561 1234
Ireland: 1890 818 575

Hereby, DSG Retail Ltd., declares that this TV (L24HED18) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: **https://www.teamknowhow.com/**
Click on **SEARCH** and enter the model number.

DSG Retail Ltd. (co. no. 504877)
1 Portal Way, London, W3 6RS, UK

(IB-L24HED18-180720V3)