

JVC

Instruction Manual

24" / 32" LED HD TV

LT-24C490

LT-32C490

LT-32C491



 FreeviewHD

HDTV


DOLBY
AUDIO

HDMI[®]
HIGH-DEFINITION MULTIMEDIA INTERFACE

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- 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

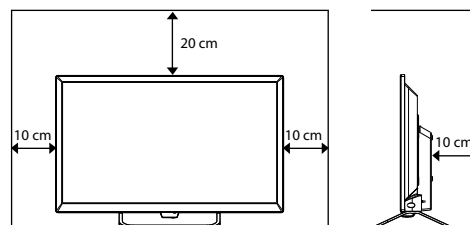
- Never place any type of candle or naked flame on the top of or near the unit.

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.

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.

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.

1 Safety Warnings

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.

Thank you

for purchasing your new JVC 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.

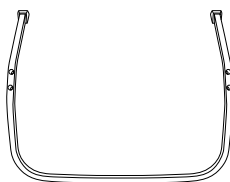
Unpacking the TV

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

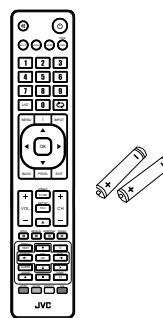
The following items are included:



TV



TV Stand Base



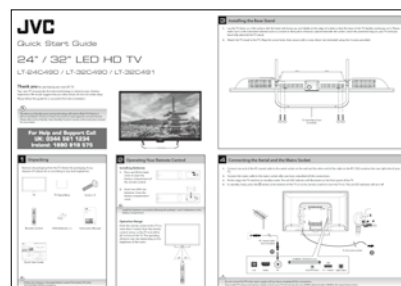
Remote Control /
AAA Batteries x 2



Screw x 4



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

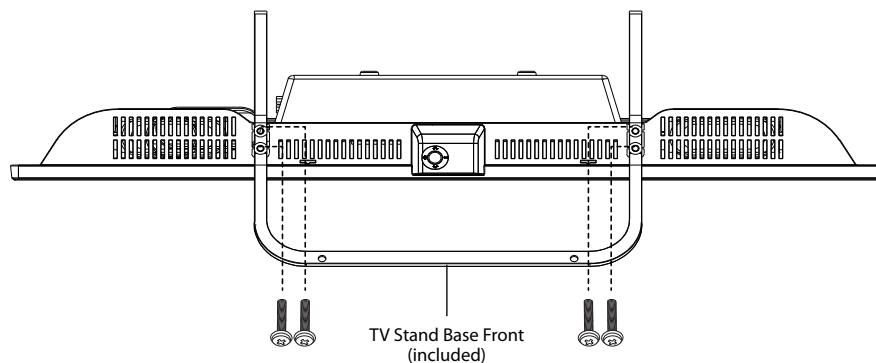


The LCD display is very fragile, and must be protected at all times when installing and removing the base stand. Be sure that no hard or sharp object, or anything that could scratch or damage the LCD display, comes into contact with it. DO NOT exert pressure on the front of the TV at any time because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

Attach the TV stand to the TV. Align the screw holes, then secure with a screw driver (not included) using the 4 screws provided.



Mounting the TV to a Wall

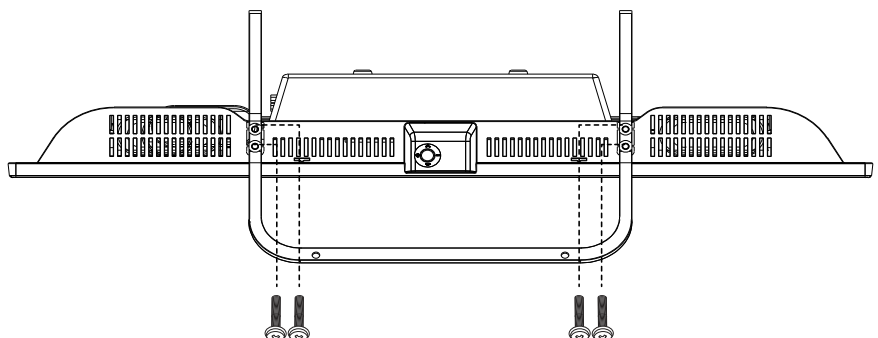


- Remove the stand assembly before mounting the TV onto the wall.
- If you are wall mounting your TV you may wish to buy a 90° HDMI adapter. This will help with your cable management.

1. To remove the stand assembly, untighten the screws holding the stand assembly at the bottom of the TV. Remove the stand assembly.



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



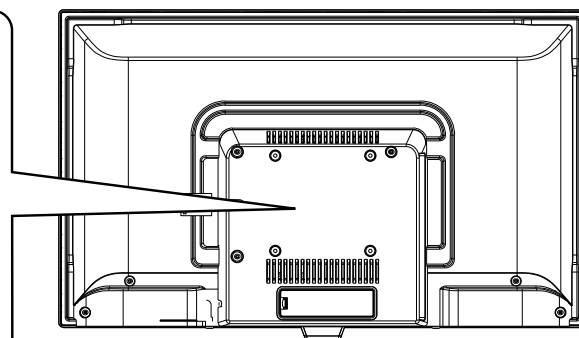
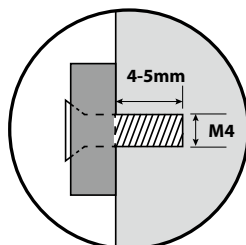
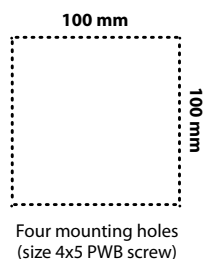
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance:
For UK, please call our UK Call Centre on **0344 561 1234**.
For Ireland, please call our Ireland Call Center on **1 890 818 575**.

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 16-19 and page 51 for details) before mounting on to the wall.

TV Weight (Without Stand):

LT-24C490: 2.2 kg

LT-32C490 / LT-32C491: 3.5 kg

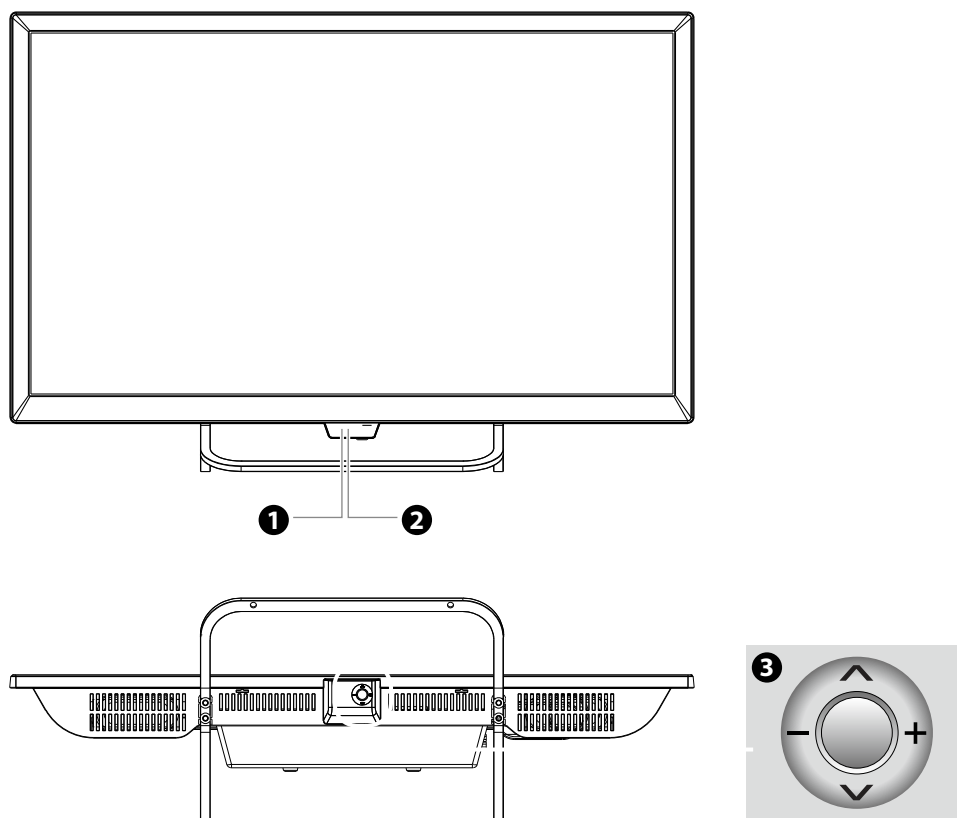


- Some models of TV are provided 4 screws inside the mounting holes. Be sure to use these supplied screws with your mounting kit when attaching the mounting hooks to the TV set. The supplied screws are designed for the TV. Use of screws other than those supplied may result in internal damage to the TV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



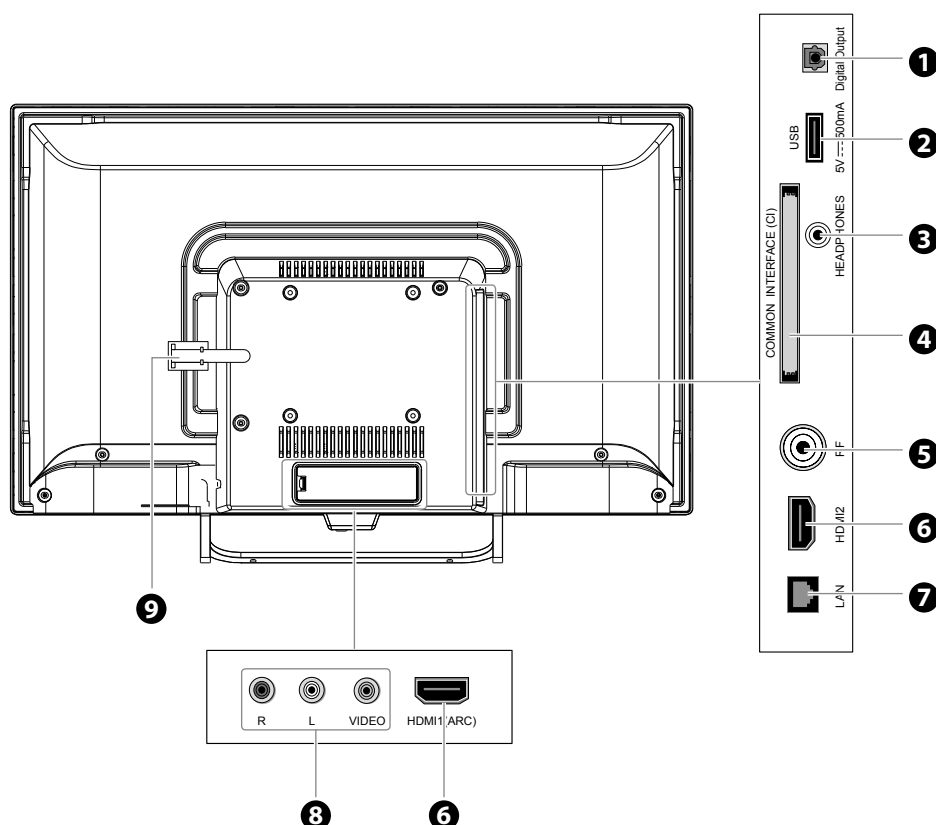
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance:
For UK, please call our UK Call Centre on **0344 561 1234**.
For Ireland, please call our Ireland Call Center on **1 890 818 575**.

Front View and Bottom View Controls



Item	Description
1 POWER LED	Illuminates red when the TV is in standby mode. The LED will blink in red, confirming that a timer recording programme has started in 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 Joystick Function Button	<ul style="list-style-type: none"> • In STANDBY mode, press to switch the TV on from standby mode. • In ON mode, press and hold then select "Yes" and press again to switch the TV back to standby mode. • Press to display the input sources menu. • Move up and down (▲ / ▼) to select a channel or select among different input signal sources. • Move left and right (+ / -) to adjust the volume or access the selection on the input source menu.

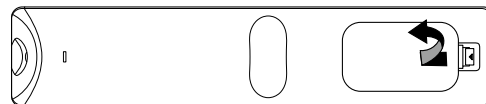
Rear View and Sockets



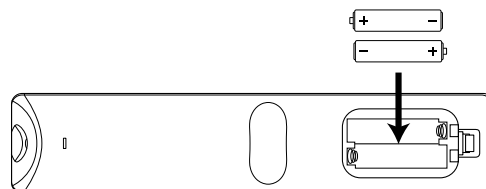
Item	Description
1 Digital Output	Connects to the audio socket on the digital/standard 5.1 audio system.
2 USB	Allows the insertion of a USB storage device to play video, audio and photo files (USB mode) and record DTV programmes on to a USB storage device.
3 HEADPHONES	Connects to the headphones.
4 COMMON INTERFACE	Allows the insertion of a Common Access Module.
5 RF Aerial	Connects to the aerial socket on the wall with the RF coaxial cable.
6 HDMI1(ARC) / HDMI2	Connects to a High-Definition (HD) signal output device, such as a set-top box, blu-ray disc player or AV receiver.
7 LAN	Connects your TV to the internet router by an Ethernet cable.
8 VIDEO / AUDIO (L/R)	Connects to the Composite VIDEO and AUDIO (L/R) output sockets on external video devices.
9 Cable Tie	Bundle the connecting cables to prevent stepping on them before wall mounting.

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

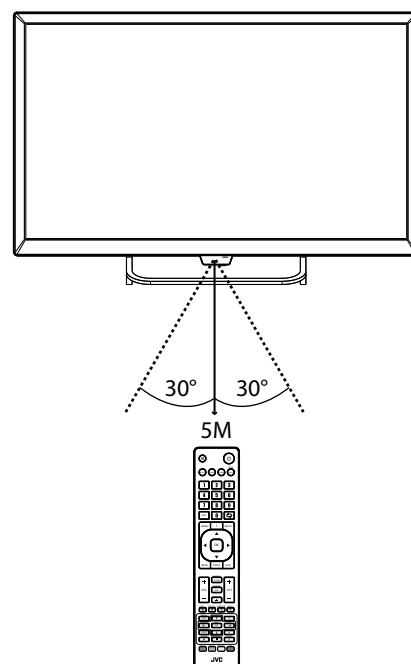
- Improper or incorrect use of batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Only use the battery type indicated in this manual.
- When the batteries are exhausted, the remote will not function. Replace both batteries at the same time 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.

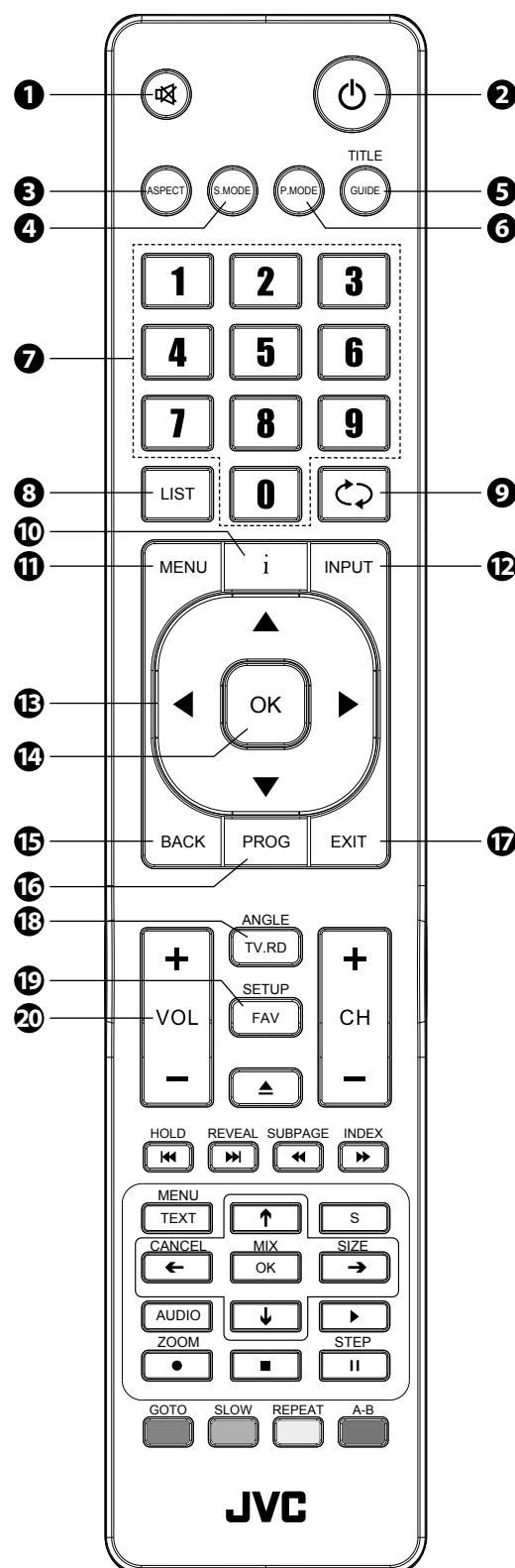
Remote Control Operation Range

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. Mute and restore your TV sound.
2. Switch the TV between on and standby mode.
3. **ASPECT**
Watch the screen in various formats: Auto / 4:3 / 16:9 / Zoom / Subtitle / SmartZoom.
4. **S.MODE**
Select sound mode: Standard / Music / Movie / Sport / User.
5. **GUIDE**
Displays the EPG Electronic Programme Guide. (DTV mode)
TITLE
No function.
6. **P.MODE**
Select picture mode: Standard / Movie / User / Dynamic.
7. **0-9 Number Button**
Press to select a programme.
8. **LIST**
Display the channel list. (ATV / DTV mode)
9. (**RECALL**)
Return to the previous viewing channel. (ATV / DTV mode)
10. **i**
Display the present channel information such as the current time and channel name. (ATV / DTV mode)
11. **MENU**
Display the OSD (On Screen Display) menu.
12. **INPUT**
Select among the different input signal sources:
DTV / ATV / HDMI1 / HDMI2 / AV / USB
13. Allows you to navigate the OSD menus and adjust the system settings to your preference.
14. **OK**
Confirm the selection in the OSD menus.
15. **BACK**
Return to the previous menu in the OSD menus.
16. **PROG**
Display the channel edit menu. (ATV / DTV mode)
17. **Exit**
Exit the OSD menu.
18. **TV.RD**
A short-cut to switch input source to TV / Digital radio channels.
ANGLE
No function.
19. **FAV**
Display the favourite channel list. (ATV / DTV mode)
SETUP
No function.
20. **VOL + / -**
Adjust the volume.



21. CH + / -

Select a channel.

22. ▲

No function.

23. ⏮

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



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



Reverse playback rapidly. (USB mode)



Advance playback rapidly. (USB mode)

HOLD / REVEAL / SUBPAGE / INDEX

No function.

24. TEXT

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

MENU

No function.

25. S (Subtitle)

Display subtitles which are broadcast with the programme. (DTV mode)

26. ⏮ ⏪ ⏩ ⏭ / CANCEL / SIZE

No function.

OK / MIX

No function.

27. AUDIO

- Turn on / off the Audio Description function (only applicable when the TV programme has this feature). (DTV mode)
- Select Stereo / Dual Sound Reception. (ATV mode)

28. ▶ PLAY

Start playback. (USB mode)

29. ● REC

Record the current programme. (DTV mode).

ZOOM

No function.

30. ■ Stop

Stop the playback or recording. (USB / DTV mode)

31. || (Pause)

- Pause playback. (USB mode)
- Start the time-shift function (DTV mode)

STEP

No function.

32. Coloured buttons

- Access the TELETEXT items. (DTV mode)
- Access menu options.

GOTO (RED)

No function.

SLOW (GREEN)

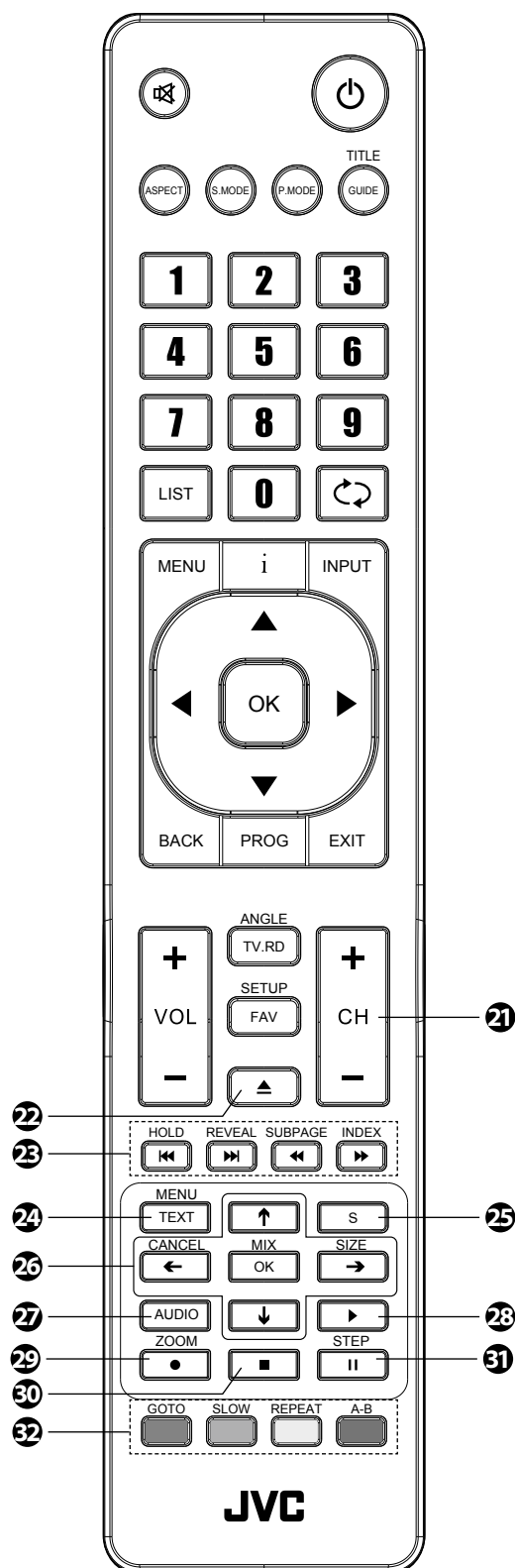
No function.

REPEAT (YELLOW)

No function.

A-B (BLUE)

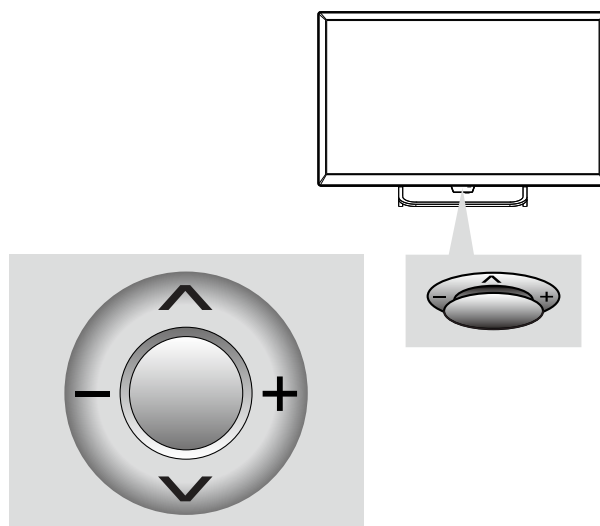
No function.



Joystick Function Button

The button under the TV frame is like a joystick. You can simply operate the TV functions by pressing or moving the button.

- Press the button to switch the TV on.
- Press and hold the button then select "Yes" and press the button again to turn the TV to standby.
- To change input source, press the button to access the **INPUT SOURCE** menu. Move the button up / down (^ / v) to select the source, then move left and right (+ / -) to confirm.
- To change channel, move button up / down (^ / v).
- To adjust the volume, move the button left and right (+ / -).






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
VIDEO 	Composite Video	Yes 

*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.

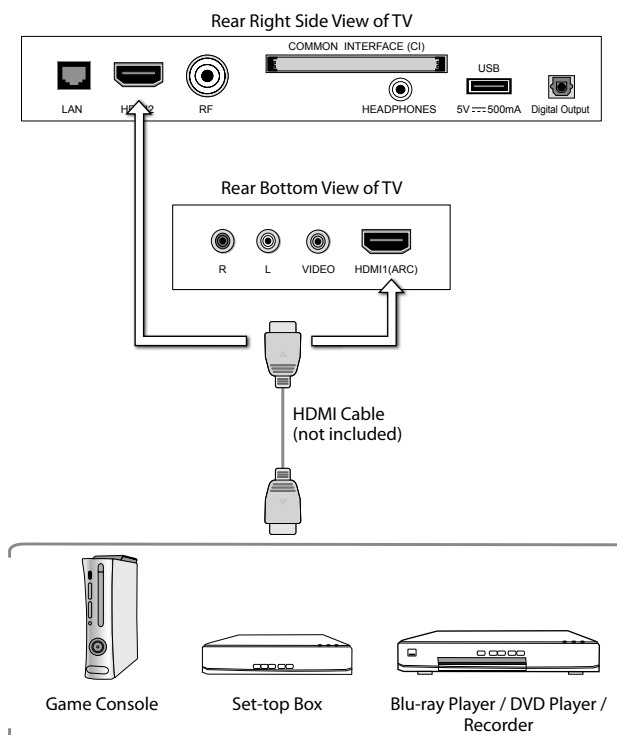
Connecting an AV Device Using an HDMI Cable

- This TV can accept High-Definition Multimedia Interface (HDMI) supports HDCP (High-Bandwidth Digital Content Protection) Protocol.
- This TV has a total of 2 HDMI input sockets, 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.

- Use an HDMI cable to connect the TV's HDMI input socket to the external AV device's HDMI output socket.
- Plug the connected devices into the mains socket before switching on the TV.
- Press the center of joystick function button under the TV frame or the  button on the remote control to turn on your TV.
- Press the **INPUT** button on the remote control to display the **Input Source** menu. Use the **▲▼** buttons on the remote control to select **HDMI 1 / HDMI 2** and then press the **OK** button to confirm.



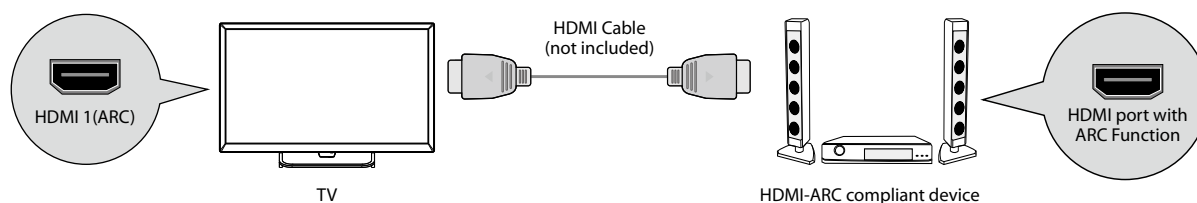
Although this TV is able to connect to an HDMI device, it is possible that some devices may not operate correctly.



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.

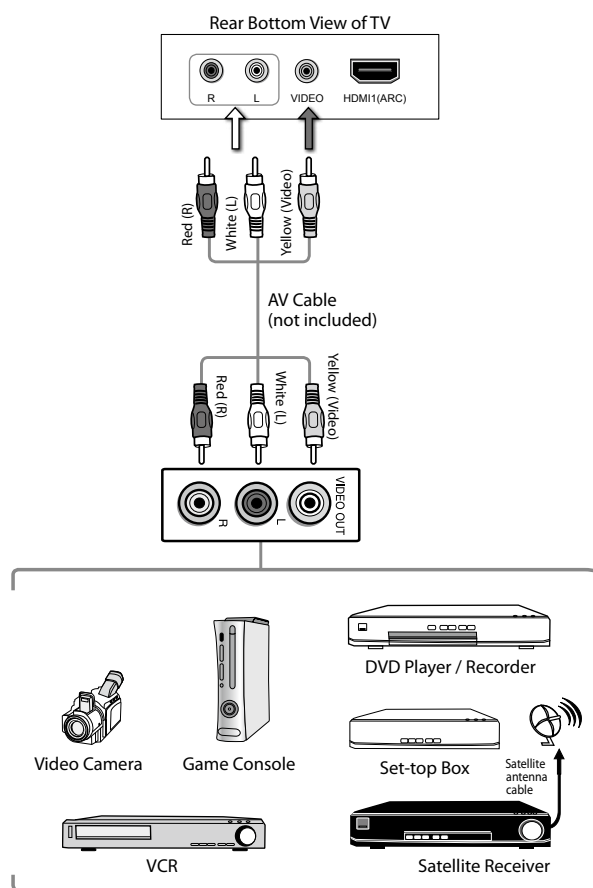
To enjoy the ARC function, please ensure your ARC-compliant audio devices are connected by an HDMI cable that support the ARC function to the **HDMI 1(ARC)** socket of your ARC-compliant TV. When correctly set up, you can use your TV remote control to adjust the volume output (VOL +/- and MUTE) of the 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 1 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 41 for details on **HDMI CEC**).


Connecting an AV Device Using Composite Cable

1. Use an AV cable to connect the TV's AV IN input sockets to the external AV device's composite audio / video output 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 center of joystick function button under the TV frame or the  button on the remote control to turn on your TV.
4. Press the **INPUT** button on the remote control to display the **Input Source** menu. Use the **▲▼** buttons on the remote control to select **AV** and then press the **OK** button to confirm.



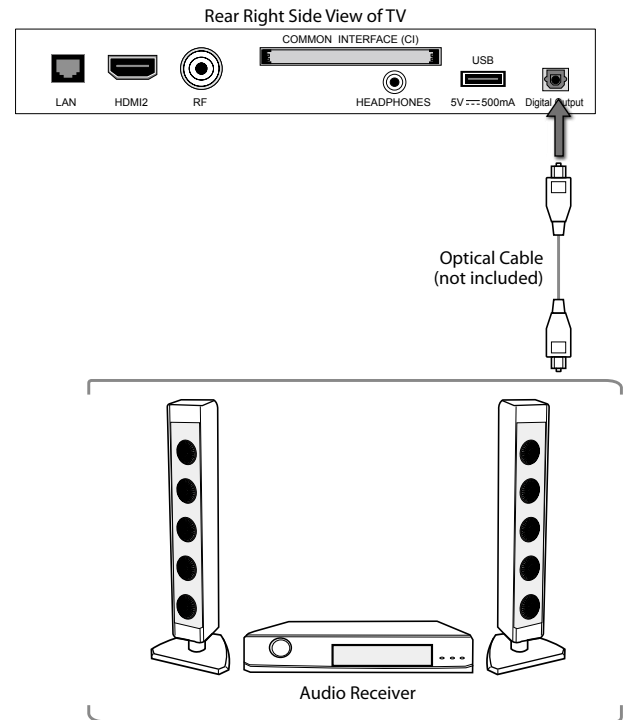
Connecting an Audio Receiver

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 (optical) socket to an external audio receiver's audio input socket.
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the center of joystick function button under the TV frame or the  button on the remote control to turn on your TV.
4. Press the **INPUT** button on the remote control to display the **Input Source** menu. Use the **▲▼** buttons on the remote control to select the 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.

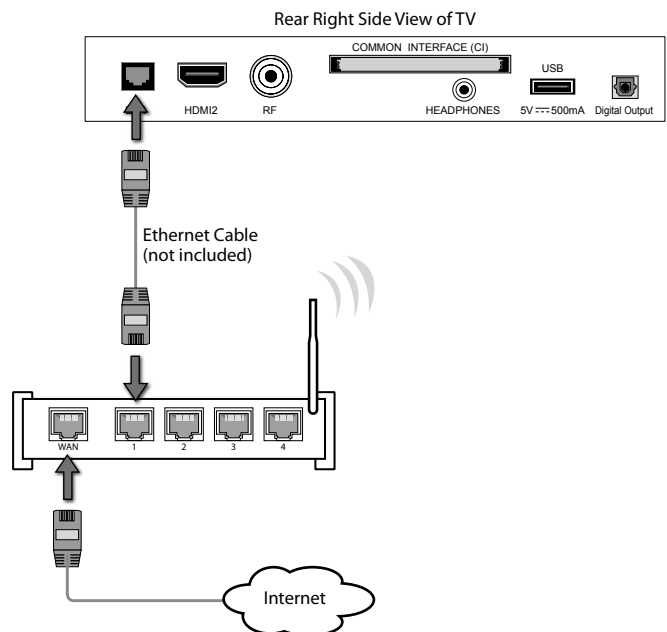


Connecting to Network

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.

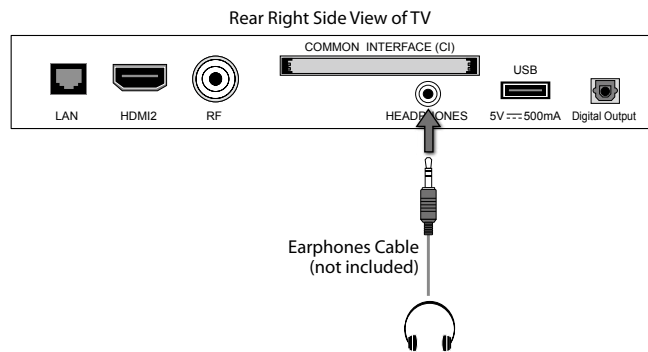
Connecting Headphones

Connect your headphones to the TV's HEADPHONES 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.



Turning the TV On for the First Time

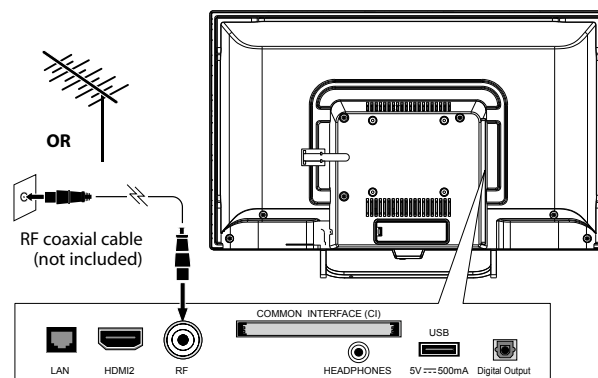


- This instruction manual explains the basic instructions for operating this unit. Unless otherwise stated, all operations described are based on remote control use.
- When an item in main menu is displayed gray, it means that the item is not available or cannot be adjusted.
- If you are going to watch 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.

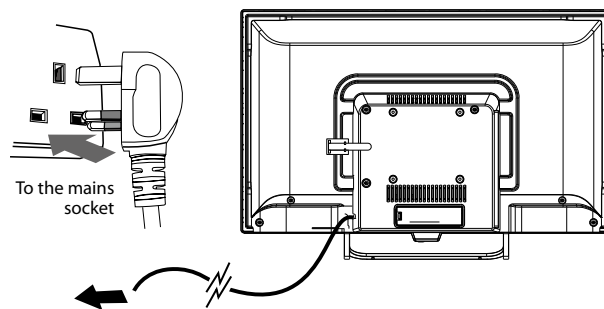
1. Connect one end of the RF coaxial cable to the aerial socket on the wall and the other end of the cable to the RF (75Ω) socket at the rear right side of your TV.



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



2. 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 center of joystick function button under the TV frame or the **Power** button on the remote control to turn on your TV. The red LED indicator will turn off.



- Always disconnect the TV from the mains socket when not in use for a long period of time.
- The center of joystick function button under the TV frame or the **Power** button 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.

5. 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 and then press the **OK** button. (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.

First Time Installation

Please ensure aerial is plugged in!

OK Confirm

6. Press the **Left/Right** buttons to select the country where you will operate the TV. Press the **OK** button to confirm.

First Time Installation

Country	◀ UK ▶
OSD Language	English
Home/Store Mode	Home Mode
Tune Type	DTV

OK Confirm

7. Press the ▼ button to select **OSD Language**, then press the ◀▶ buttons to select your desired language to be displayed on the menu. The default on-screen menu language is set as **English**. Press the **OK** button to confirm.

8. Press the ▼ button to select **Home/Store Mode**. Press the ◀▶ buttons to select your desired mode and then press the **OK** button. A pop-up message will be displayed. Press the ◀▶ buttons to select **Yes** to confirm or **No** to cancel. Press the **OK** button to return to the **Mode Select** menu.

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



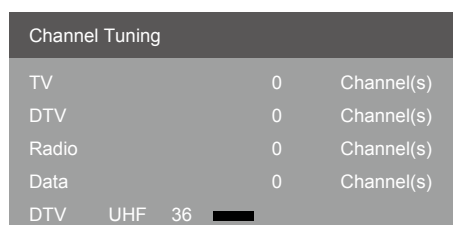
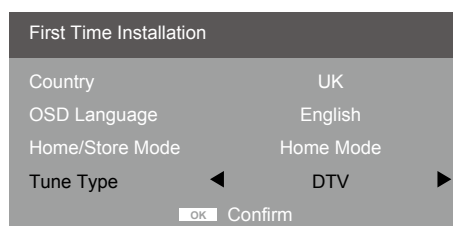
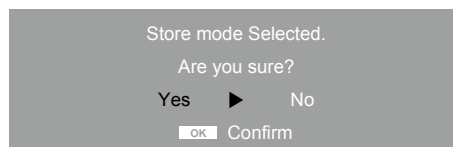
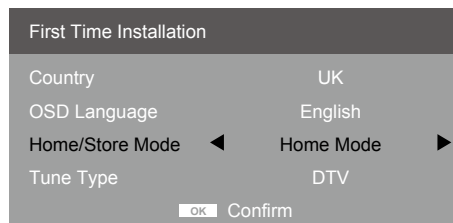
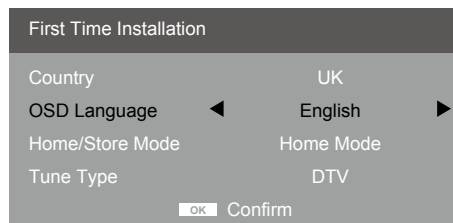
- For the best picture quality in your home environment, we recommend setting the TV to **Home Mode**.
- In **Shop Mode**, the default **Picture Mode** under the **PICTURE** menu is set as **Standard** (refer to page 24 for details) and the **Backlight** is set as 10 (refer to page 24 for details).

9. Press the ▼ button to select **Tune Type**, then press the ◀▶ buttons to select **DTV / ATV / DTV + ATV**. Press the **OK** button to confirm.

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

11. 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 screen will be displayed, press the ◀ button to select **YES** to confirm. You may repeat the above step if you also want to skip the ATV tuning.

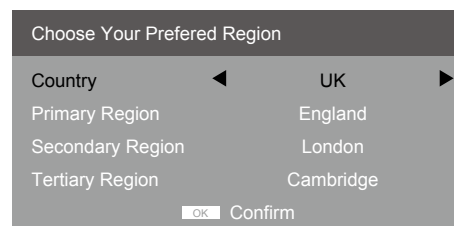
12. After tuning is complete, the channels are arranged in a preset order. If you wish to skip channels, modify the preset order or rename channels, select **Channel Edit** under the **Channel** menu (refer to page 33 for details).



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.


1. Press the ◀▶ buttons to select the **Country** then press the ▲▼ buttons to select **Primary Region** / **Secondary Region** / **Tertiary Region**.
2. Press the ◀▶ buttons to select your preferred region 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 several 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 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.



- Always disconnect the TV from the mains socket when not in use for a long period of time.
- The  button 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 on the remote control to display the Input source list.
2. Press the ▲▼ buttons to select the input source that you want: DTV / ATV / HDMI 1 / HDMI 2 / AV / 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.




Channel Selection

- Press 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 44 for details on **Block Channel**).
- Press the **FAV** button to view the **Favourite List**. Then use the ▲▼ buttons to highlight and select the channel. Press the **OK** button to view the selected channel (refer to page 33 for details on **Channel Edit**).
- Press the  button to return to the previously viewed channel.

Listening to the Radio (Radio Mode)

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

Volume Adjustment

- Press the **VOL +** or **-** button on the side panel of the TV or 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, 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.

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.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System


2. Press the **▲▼** buttons and then press the **OK** button to select the picture options.

Main Menu	Picture
Picture	Picture Setting Standard
Sound	Colour Temperature Nature
Time	Aspect Ratio Auto
Channel	Noise Reduction Low
Option	
Lock	
System	

3. Use the **▲◀▶▼** buttons navigate the options and press the **◀▶** buttons to adjust each option's setting.

Main Menu	Picture	Picture Setting
Picture	Picture Setting Standard	Mode ◀ Standard ▶
Sound	Colour Temperature Nature	Contrast 50
Time	Aspect Ratio Auto	Brightness 50
Channel	Noise Reduction Low	Colour 50
Option		Sharpness 50
Lock		Tint 50
System		Backlight 7

Picture Setting	Mode	Select among picture mode: Standard / Movie / User / Dynamic .
		Alternative You may press the P.MODE button to select the picture mode directly.
	Contrast	Adjusts the difference between light and dark levels in the picture (for User mode).
	Brightness	Increases or decreases the amount of white in the picture (for User mode).
	Colour	Controls the colour intensity (for User mode).
	Sharpness	Adjusts the level of crispness in the edges between light and dark areas of the picture (for User mode).
	Tint (For NTSC format)	Adjusts the balance between red and green levels (Tint is only available for NTSC signal reception).
	Backlight	Adjusts the backlight setting of your TV. This controls the brightness and display performance of the screen.
		<p>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.</p>

Colour Temperature	<p>Select among colour temperature: Nature / Warm / User / Cool.</p> <p>Adjusts the colour components independently to achieve a warm or cool colour (for User mode).</p> <ul style="list-style-type: none"> • Red: Increases red tint • Green: Increases green tint • Blue: Increases blue tint
Aspect Ratio	<p>Allows you to watch the screen in various picture formats: Auto / 4:3 / 16:9 / Zoom / Subtitle / SmartZoom. (Except USB mode)</p> <p> Alternative _____</p> <p>You may press the ASPECT button to select the aspect ratio directly.</p>
Noise Reduction	Select to reduce the noise level of the connected device: Off / Low / Middle / High.

4. Press the **BACK** button to return to the previous menu or press the **MENU** button to return to the main menu.
5. Press the **EXIT** button to return to normal TV viewing.

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.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System

2. Press the **▲▼** buttons and then press the **OK** button to select the sound options.

Main Menu	Sound	
Picture	Sound Setting	Standard
Sound	Balance	50
Time	Auto Volume	Off
Channel	Surround Sound	Off
Option	AD Switch	
Lock	Digital Output	PCM
System		

3. Use the **▲◀▶▼** buttons navigate the options and press the **◀▶** buttons to adjust each option's setting.

Main Menu	Sound	Sound Setting
Picture	Sound Setting	Standard
Sound	Balance	50
Time	Auto Volume	Off
Channel	Surround Sound	Off
Option	AD Switch	
Lock	Digital Output	PCM
System		

Sound Setting	Mode	
		You can select this function when Surround Sound switch off. Press the ◀▶ buttons to select an audio-enhancement technique: Standard / Music / Movie / Sports / User .
		Alternative You may press the S.MODE button to select the sound mode directly.
		<div> To get a better sound effect, you may need to adjust the sound settings depending on the type of program you are watching. </div>
	Treble	Controls the relative intensity of higher pitched sounds. (for User mode)
	Bass	Controls the relative intensity of lower-pitched sounds. for User mode)
Balance		Adjusts the relative volume of the speakers in a multiple speaker system.
Auto Volume		Volume levels are automatically controlled (e.g., advertisements tend to be louder than the programmes).
Surround Sound		Delivers an immersive virtual surround sound experience over front facing speaker configurations, complete with rich bass, high frequency detail and clear dialogue.

AD Switch (for DTV mode)	<p>Audio Description is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the main audio from the broadcaster.</p> <ul style="list-style-type: none"> Set to "Off" for normal broadcasting sound coming out from speakers. Set to "On" to activate the description sound track if available. Press the ◀▶ buttons to adjust the AD volume. The availability of Audio Description sound track is indicated by the visually impaired icon "V.I." in the information banner.
Digital Output	Selects the digital audio output mode: PCM / Auto .

- Press the **BACK** button to return to the previous menu or press the **MENU** button to return to the main menu.
- Press the **EXIT** button to return to normal TV viewing.

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 DUAL I**, **NICAM DUAL II**, **NICAM DUAL I+II** or **MONO** by pressing the **AUDIO** button repeatedly.

NICAM DUAL I	Sends the primary broadcast language to the loudspeakers
NICAM DUAL II	Sends the secondary broadcast language to the loudspeakers
NICAM DUAL I+II	Sends the primary and secondary broadcast languages to the loudspeakers

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.

Time Settings

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

1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Sound** menu and then press the **OK** button.

Main Menu	
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System


2. Press the **▲▼** buttons and then press the **OK** button to select the sound options.

Main Menu	Time	
	Clock	Standard
	Off Time	▶
	On Time	
	Sleep Timer	Off
	Auto Standby (4h)	On
	OSD Timer	30 sec
	Time Zone	GMT+0

3. Use the **▲◀▶▼** buttons navigate the options and press the **◀▶** buttons to adjust each option's setting.

Main Menu	Time		Off Time	
	Clock	Standard	Mode	◀ Off ▶
	Off Time	▶	Hour	0
	On Time		Minute	0
	Sleep Timer	Off		
	Auto Standby (4h)	On		
	OSD Timer	30 sec		
	Time Zone	GMT+0		

Clock	The clock is set automatically when receiving a digital signal.	
Off Time	Mode	Allows you to set the off time that will automatically switch off the TV. Select from the following off time options: Off / Once / Every Day / Mon-Fri / Mon-Sat / Sat-Sun / Sun.
	Hour	Sets the hours (0-23) to switch off the TV.
	Minute	Sets the minutes (0-59) to switch off the TV.
On Time	Mode	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 / Every Day / Mon-Fri / Mon-Sat / Sat-Sun / Sun.
	Hour	Sets the hours (0-23) to switch on the TV.
	Minute	Sets the minutes (0-59) to switch on the TV.
	Source	Selects the input source that would become active when the TV is turned on: DTV / Radio / Data / ATV / HDMI 1 / HDMI 2 / AV.
	Channel	Selects a specific channel that would become active when the TV is turned on.
	Volume	Selects a volume that would become active when the TV is turned on.

Sleep Timer	<p>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.</p> <p>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.</p> <div style="text-align: center;">  </div> <p>If you turn the TV off after setting the sleep timer, the sleep timer setting will be erased.</p>
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. To save energy you should always turn the auto standby function back to "ON".
OSD Timer	You can select a time that your on-screen menus will be displayed: Off / 10 / 20 / 30 / 60 seconds. If you select Off the menu will remain on the screen until you press a button to remove it.
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.

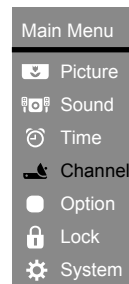
4. Press the **BACK** button to return to the previous menu or press the **MENU** button to return to the main menu.
5. Press the **EXIT** button to return to normal TV viewing.

Channel Setting (TV, DTV or Radio Mode)

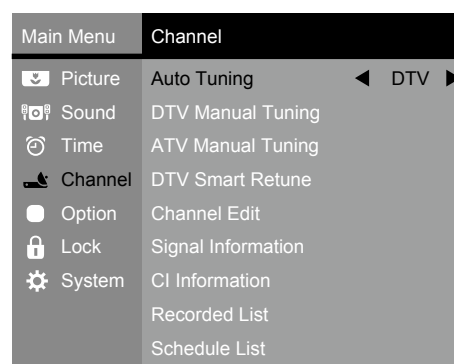
Auto Tuning

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 **◀▶** buttons to select **DTV / ATV / DTV+ATV**. Press the **OK** button to confirm.



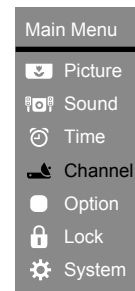
3. Channel tuning will commence. This operation may take a few minutes. The display will show the progress of the tuning and the number of channels found.
4. If you select DTV + ATV and you want to skip the DTV tuning, press the **MENU** button to interrupt the tuning half way. A pop-up screen will be displayed, press the **◀** button to select **YES** to confirm. You will then go straight to ATV tuning. You may repeat the above step if you also want to skip the ATV tuning.
5. During DTV tuning, your TV may have received signals from more than one transmitter. If this has occurred, the Target Region Setting screen will be displayed. Please refer to the section "**Target Region Setting**" on page 22 for details.
6. 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 33 for details).

Channel Tuning		
TV	0	Channel(s)
DTV	0	Channel(s)
Radio	0	Channel(s)
Data	0	Channel(s)
DTV	UHF 36	

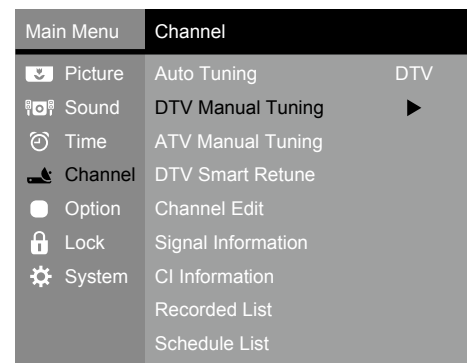
DTV Manual Tuning

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

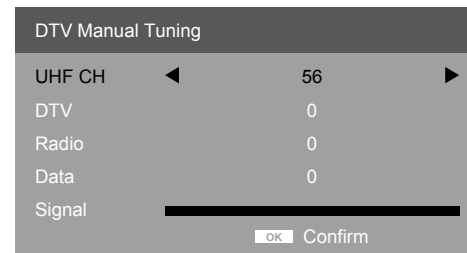
1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Channel** menu and then press the **OK** button.



2. Press the **▲▼** buttons to select **DTV Manual Tuning** and then press the **OK** button.



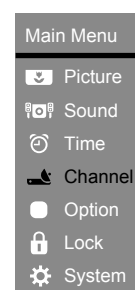
3. The **DTV Manual Tuning** screen will pop up. Press the **◀▶** buttons to select the desired UHF channel and then press the **OK** button to commence the search of that channel. When the signal has been tuned, the picture and signal strength will be displayed on the screen.
4. Press the **MENU** button to return to the previous menu.
5. Press the **EXIT** button to return to normal TV viewing.



ATV Manual Tuning

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.



5 Customising TV Settings

- Press the **▲▼** buttons to select **ATV Manual Tuning** and then press the **OK** button.

Main Menu	Channel
Picture	Auto Tuning DTV
Sound	DTV Manual Tuning
Time	ATV Manual Tuning ▶
Channel	DTV Smart Retune
Option	Channel Edit
Lock	Signal Information
System	CI Information
	Recorded List
	Schedule List

- The ATV 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.
TV System	Selects the sound system: I / DK / L (for SECAM) / M / BG.
Auto Tune	Press the ◀▶ buttons to start the auto tuning.
Fine-Tune	Press the ◀▶ buttons to make manual fine tuning adjustments.
Frequency	Displays the current tuned frequency.

ATV Manual Tuning		
Storage To	◀ 1 ▶	
TV System	I	
Auto Tune	0	
Fine Tune	0	
Frequency	471.25 MHz	

- After finishing the manual tuning adjustment of a channel, press the **RED** button to save your channel before tuning the next channel.
- Press the **MENU** button to return to the previous menu.
- Press the **EXIT** button to return to normal TV viewing.

DTV Smart Retune

This feature allows you to scan for Freeview channels. When new channels are found they are automatically added to your channel list without removing any channels or affecting your favourites list.

- Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Channel** menu and then press the **OK** button.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System

- Press the **▲▼** buttons to select **DTV Smart Retune** and then then press the **OK** button.

Main Menu	Channel
Picture	Auto Tuning DTV
Sound	DTV Manual Tuning
Time	ATV Manual Tuning
Channel	DTV Smart Retune ▶
Option	Channel Edit
Lock	Signal Information
System	CI Information
	Recorded List
	Schedule List

3. The **Channel Tuning** screen will pop up and 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 previous menu.
5. Press the **EXIT** button to return to normal TV viewing.

Channel Tuning		
TV	0	Channel(s)
DTV	0	Channel(s)
Radio	0	Channel(s)
Data	0	Channel(s)
DTV	VHF	

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.

Main Menu	
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System

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

Main Menu	Channel	
	Picture	
	Sound	
	Time	
	Channel	
	Option	
	Lock	
	System	
	Auto Tuning	DTV
	DTV Manual Tuning	
	ATV Manual Tuning	
	DTV Smart Retune	
	Channel Edit	▶
	Signal Information	
	CI Information	
	Recorded List	
	Schedule List	

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.

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 **GREEN** button again to confirm the new name.

c. 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.

d. 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.

Channel Edit	
1 BBC ONE	DTV
2 BBC TWO	DTV
70 CBBC Channel	DTV
71 CBeebies	DTV
724 Capital FM	Radio
117 The Space	Data
1 C-24	ATV
<div> <div>Delete</div> <div>Rename</div> <div>Skip</div> <div>OK Confirm</div> <div>FAV Favourite</div> <div>BACK Return</div> </div>	

5 Customising TV Settings

4. Press the **MENU** button to return to the previous menu.
5. Press the **EXIT** button to return to normal TV viewing.



Care should be taken when editing the position of digital channels as this may affect EPG and reminder settings.

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.

Main Menu	
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System

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

Main Menu	Channel	
	Picture	Auto Tuning DTV
	Sound	DTV Manual Tuning
	Time	ATV Manual Tuning
	Channel	DTV Smart Retune
	Option	Channel Edit
	Lock	Signal Information ▶
	System	CI Information
		Recorded List
		Schedule List

3. Press the **BACK** or **MENU** button to return to the previous menu.
4. Press the **EXIT** button to return to normal TV viewing.

Signal Information		
Network	East Midlands	
Channel	54	
Frequency	738.00 MHz	
Quality	100%	
Level	58%	

CI (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.

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.

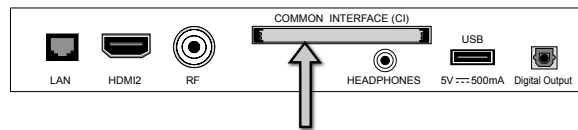
To remove the Common Access Module

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

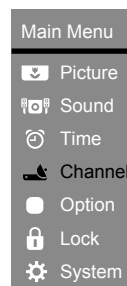
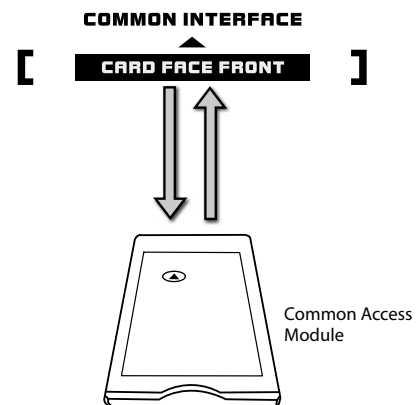
1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Channel** menu and then press the **OK** button.
2. Press the **▲▼** buttons to select **CI Information** and then press the **OK** button.

Rear Right Side View of TV



CI (Common Interface)

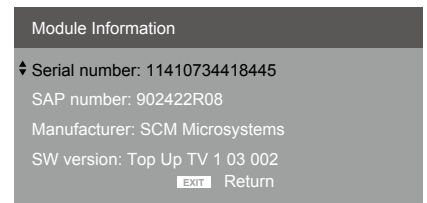
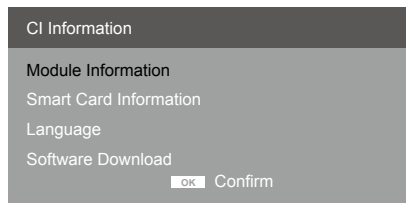
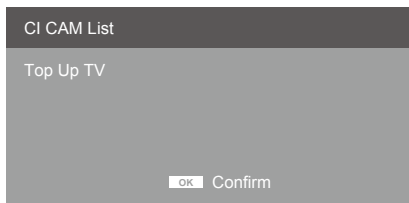
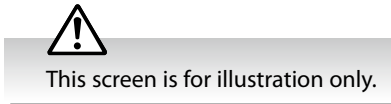
Allows the Common Access Module to be inserted and access the content that has been encrypted.



Main Menu	Channel
Picture	Auto Tuning DTV
Sound	DTV Manual Tuning
Time	ATV Manual Tuning
Channel	DTV Smart Retune
Option	Channel Edit
Lock	Signal Information
System	CI Information ▶
	Recorded List
	Schedule List

5 Customising TV Settings

- A CI Information message will pop up. Press the ▲▼ buttons then press the **OK** button to display the module information, smart card information, language, software download. Press the **OK** button to confirm.

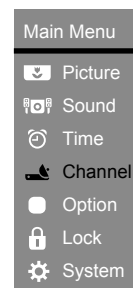


- Press the **EXIT** button to return to normal TV viewing.

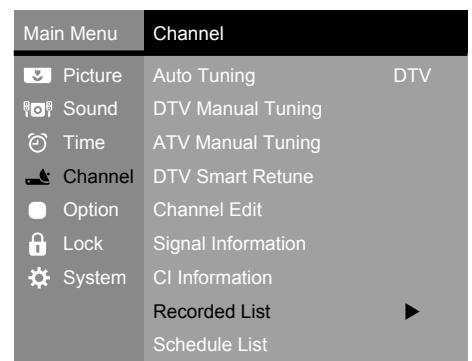
Recorded List (DTV Mode)

Views the recorded programmes in the Recorded List.

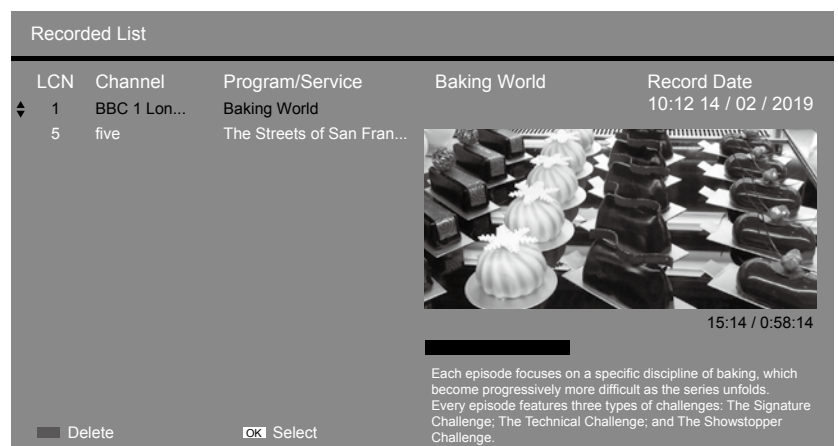
- Press the **MENU** button to display the **Main Menu**. Press the ▲▼ buttons to select the **Channel** menu and then press the **OK** button.



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



- Press the ▲▼ buttons to navigate the list. Press the **OK** button to watch the selected programme or the **RED** button to delete the desired programme.

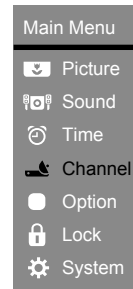


- Press the **EXIT** button to return to normal TV viewing.

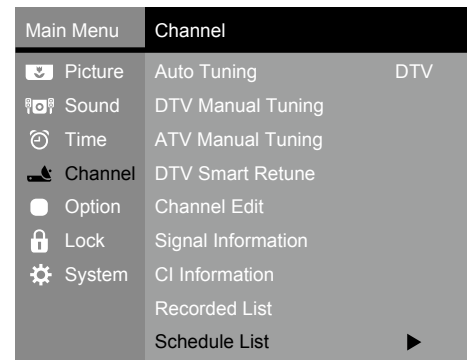
Schedule List (DTV Mode)

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. Press the **RED** button to delete the desired scheduled programme.

Schedule List				20:43 19 / 11 / 2019
	Time	Date	Channel Name	Programme Title
◆	09:43	Mon 20 / 11 / 2019	BBC One	24 Hours in A&E
🕒	15:23	Tue 21 / 11 / 2019	CBeebies	Honey
🕒	12:25	Wed 22 / 11 / 2019	Kids 4	Cook with Fanny
🕒	20:43	Fri 24 / 11 / 2019	BBC Three	Rock n Roll
				Delete

4. Press the **EXIT** button to return to normal TV viewing.

Option Setting

OSD 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 **Option** menu and then press the **OK** button.

Main Menu	
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System

2. Press the **▲▼** buttons to select **OSD Language** and then press the **OK** button. The default on-screen menu language is English.

Main Menu	Option	
	Picture	OSD Language ◀ English ▶
	Sound	Audio Language
	Time	Subtitle Language
	Channel	Subtitle Off
	Option	Hearing Impaired Off
	Lock	Country UK
	System	HDMI_CEC

3. Press the **BACK** or **MENU** button to return to the previous menu.
4. Press the **EXIT** button to return to normal TV viewing.

Audio Language (DTV Mode)

Allows you to select your desired audio language. (Available for digital channels if multiple audio languages are broadcast.)

1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Option** menu and then press the **OK** button.

Main Menu	
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System

2. Press the **▲▼** buttons to select **Audio Language** and then press the **OK** button. The default audio language is English.

Main Menu	Option	
	Picture	OSD Language English
	Sound	Audio Language ▶
	Time	Subtitle Language
	Channel	Subtitle Off
	Option	Hearing Impaired Off
	Lock	Country UK
	System	HDMI_CEC

- Press the ▲▼ buttons to select the Primary / Secondary Audio Language and then press the ◀▶ buttons to select your desired audio language. Press the **OK** button to confirm.

Main Menu	Option		Audio Language	
Picture	OSD Language	English	Primary	◀ English ▶
Sound	Audio Language	▶	Secondary	English
Time	Subtitle Language			
Channel	Subtitle	Off		
Option	Hearing Impaired	Off		
Lock	Country	UK		
System	HDMI_CEC			

- Press the **BACK** or **MENU** button to return to the previous menu.
- Press the **EXIT** button to return to normal TV viewing.

Subtitle Language (DTV Mode)

Allows you to select your desired subtitle language or turn off the subtitle. (Available for digital channels if multiple subtitle languages are broadcast.)

- Press the **MENU** button to display the **Main Menu**. Press the ▲▼ buttons to select the **Option** menu and then press the **OK** button.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System

- Press the ▲▼ buttons to select **Subtitle Language** and then press the **OK** button. The default on-screen menu language is English.

Main Menu	Option	
Picture	OSD Language	English
Sound	Audio Language	
Time	Subtitle Language	▶
Channel	Subtitle	Off
Option	Hearing Impaired	Off
Lock	Country	UK
System	HDMI_CEC	

- Press the ▲▼ buttons to select the Primary / Secondary Subtitle Language and then press the ◀▶ buttons to select your desired subtitle language. Press the **OK** button to confirm.

Main Menu	Option		Subtitle Language	
Picture	OSD Language	English	Primary	◀ English ▶
Sound	Audio Language		Secondary	English
Time	Subtitle Language	▶		
Channel	Subtitle	Off		
Option	Hearing Impaired	Off		
Lock	Country	UK		
System	HDMI_CEC			

- Press the **BACK** or **MENU** button to return to the previous menu.
- Press the **EXIT** button to return to normal TV viewing.

Subtitle (DTV Mode)

Allows you to turn on or 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 **Option** menu and then press the **OK** button.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System

2. Press the **▲▼** buttons to select **Subtitle** and then press the **◀▶** buttons to turn **On** / **Off** the subtitle.

Main Menu	Option
Picture	OSD Language English
Sound	Audio Language
Time	Subtitle Language
Channel	Subtitle ◀ Off ▶
Option	Hearing Impaired Off
Lock	Country UK
System	HDMI_CEC

3. Press the **BACK** or **MENU** button to return to the previous menu.
4. Press the **EXIT** button to return to normal TV viewing.

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 **Option** menu and then press the **OK** button.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System

2. Press the **▲▼** buttons to select **Hearing Impaired** and then press the **◀▶** buttons to select **On** / **Off**.

Main Menu	Option
Picture	OSD Language English
Sound	Audio Language
Time	Subtitle Language
Channel	Subtitle Off
Option	Hearing Impaired ◀ Off ▶
Lock	Country UK
System	HDMI_CEC

3. Press the **BACK** or **MENU** button to return to the previous menu.
4. Press the **EXIT** button to return to normal TV viewing.

Country

This shows the country you selected in auto tuning. If you want to change the country, please refer to **Auto Tuning** on page 30.

HDMI CEC (Consumer Electronics Control)

Allows you to command and control two or more CEC-enabled 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). CEC also allows individual CEC-enabled devices to command and control each other without user intervention.

Make sure that your 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 **Option** menu and then press the **OK** button.

Main Menu
Picture
Sound
Time
Channel
Option
Lock
System

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

Main Menu	Option	
Picture	OSD Language	English
Sound	Audio Language	
Time	Subtitle Language	
Channel	Subtitle	Off
Option	Hearing Impaired	Off
Lock	Country	UK
System	HDMI_CEC	▶

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

Main Menu	Option		HDMI_CEC	
Picture	OSD Language	English	CEC	◀ On ▶
Sound	Audio Language		ARC	Off
Time	Subtitle Language			
Channel	Subtitle	Off		
Option	Hearing Impaired	Off		
Lock	Country	UK		
System	HDMI_CEC	▶		

CEC	Press the ◀▶ buttons to select On to enable CEC, or select Off to disable the function. This will allow you to control other CEC enabled devices (connected via HDMI) using your TV remote control.
ARC	When CEC is set to On , press the ◀▶ buttons to select On to enable to send audio to ARC-compliant audio devices or select Off to disable the function.

4. Press the **BACK** or **MENU** button to return to the previous menu.
5. Press the **EXIT** button to return to normal TV viewing.

Lock Setting

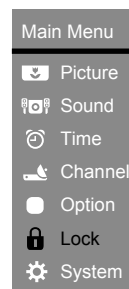
To access the **LOCK** menu, you must enter the password. Enter the default password "**6666**" for first time use. To change the password, please refer to the section "**Set Password**".

Lock System

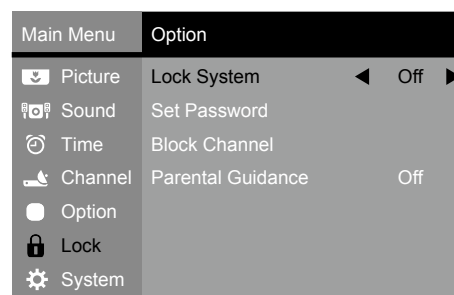
The Lock System is designed to prevent accidental re-tuning of the TV / losing of channels and to prevent children from watching unsuitable programmes.

The Lock System must be set to On for this function to operate. If the Lock System is set to On, a valid password must be entered when you access Auto Tuning / Manual Tuning / First Time Installation.

1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Lock** menu and then press the **OK** button.



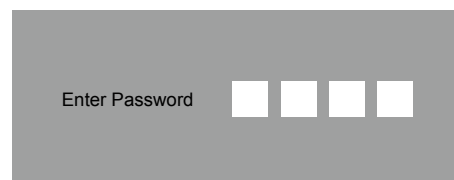
2. Press the **OK** button to select **Lock System**.



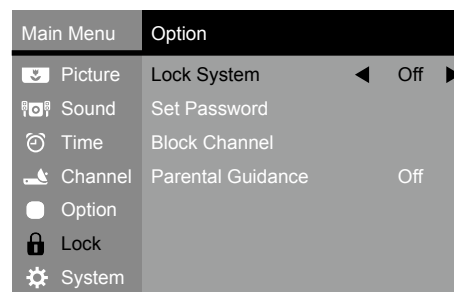
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



- The default password is "**6666**".
- If you change the password, be sure to remember the new password! If you forget the new password, enter the master password "**9527**".



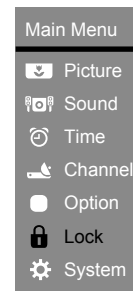
4. Press the **▲▼** buttons to select **Lock System** and then the **◀▶** buttons to select **On / Off**.
If the **Lock System** is set to **On**, a valid password must be entered when you access **Auto Tuning** / **Manual Tuning** / **First Time Installation**.



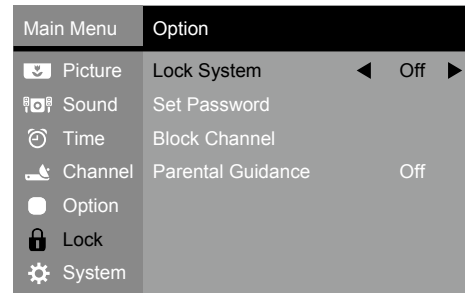
5. Press the **BACK** or **MENU** button to return to the previous menu.
6. Press the **EXIT** button to return to normal TV viewing.

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.



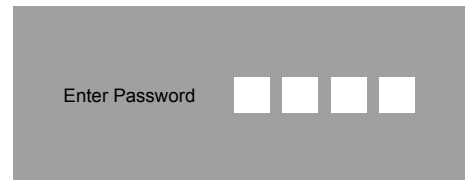
2. Press the **OK** button to select **Lock System**.



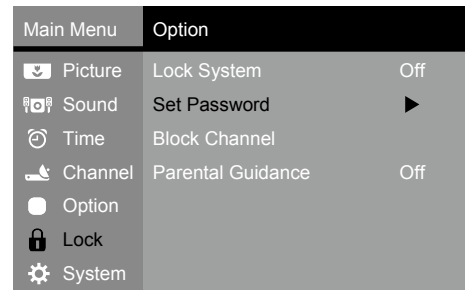
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



- The default password is “**6666**”.
- If you change the password, be sure to remember the new password! If you forget the new password, enter the master password “**9527**”.



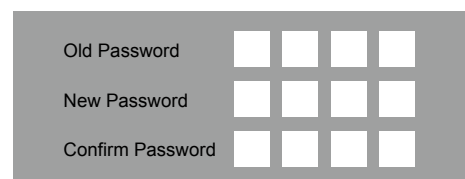
4. Press the **▲▼** buttons to select **Set Password** and then press the **OK** button.



5. Use the **0-9** buttons to input the old password and then input the new 4-digit password. Re-enter new password for confirmation.



- The default password is “**6666**”.
- If you change the password, be sure to remember the new password! If you forget the new password, enter the master password “**9527**”.



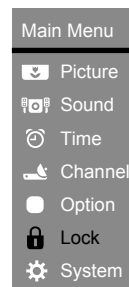
6. Press the **BACK** or **MENU** button to return to the previous menu.
7. Press the **EXIT** button to return to normal TV viewing.

Block Channel

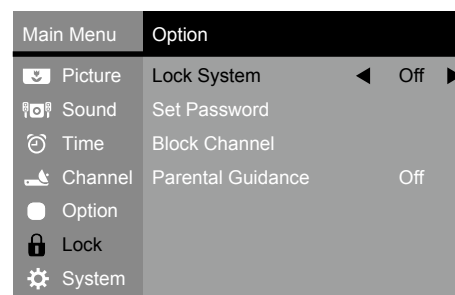
Block Channel is designed to prevent children from watching unsuitable programmes.

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.



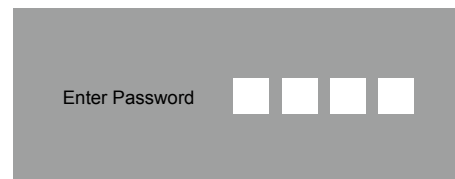
2. Press the **OK** button to select **Lock System**.



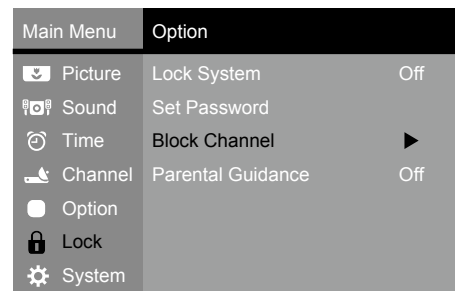
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



- The default password is "6666".
- If you change the password, be sure to remember the new password! If you forget the new password, enter the master password "9527".



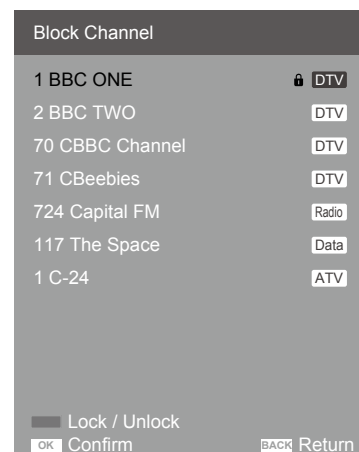
4. Press the **▲▼** buttons to select **Block Channel** and then press the **OK** button.



5. A **Block Channel** screen will pop up. Press the **▲▼** buttons to select a channel. Press the **GREEN** button on the remote control to block or unblock the channel.

6. Press the **BACK** or **MENU** button to return to the previous menu.

7. Press the **EXIT** button to return to normal TV viewing.



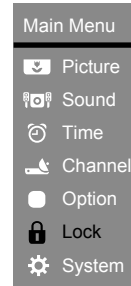
Parental Guidance

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.

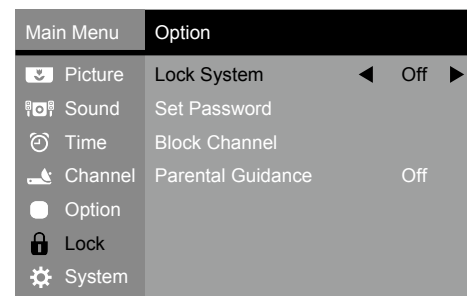
1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **Lock** menu and then press the **OK** button.



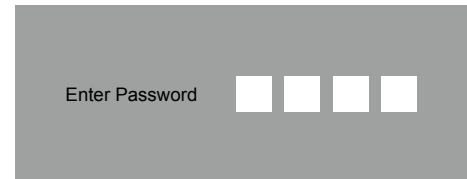
2. Press the **OK** button to select **Lock System**.



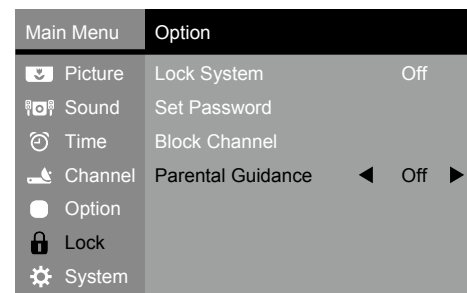
- The default password is “**6666**”.
- If you change the password, be sure to remember the new password! If you forget the new password, enter the master password “**9527**”.



3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



4. Press the **▲▼** buttons to select **Parental Guidance** and then press the **◀▶** buttons to select an age rating: Off, 4-18.



5. Press the **BACK** or **MENU** button to return to the previous menu.

6. Press the **EXIT** button to return to normal TV viewing.

System Setting

Network Setting

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



Manual setup is recommended for advanced users only.

1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **System** menu and then press the **OK** button.

Main Menu	
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System

2. Press the **▲▼** buttons to select **Network Setting** and then press the **OK** button to enter the network setting sub-menu.

Main Menu	System
	Picture
	Sound
	Time
	Channel
	Option
	Lock
	System
	Network Setting ▶
	PVR File System
	Software Update
	Network Upgrade
	Standby Scan Off
	First Time Installation

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

Network	IP Configuration	
Configuration	Acquire IP Address	Auto
Network Info	IP Address	100 . 148 . 107 . 110
Network Test	Subnest Mask	100 . 148 . 107 . 110
	Default Gateway	100 . 148 . 107 . 110
	Acquire DNS Address	Auto
	DNS Server	100 . 148 . 107 . 110
Connected	100 . 148 . 107 . 110	
MAC Address	A8 A6 48 A8 A6 48	

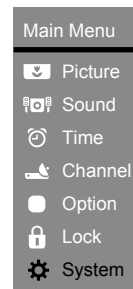
Configuration	Press the ◀▶ buttons to select Auto or Manual in Acquire IP Address and Acquire DNS Address . If Manual mode is selected, use the ▲▼ buttons to select IP Address , Subnest Mask , Default Gateway and DNS Server . Then press the OK button, and use the ◀▶ buttons and 0-9 buttons to enter the values. It also display IP Address and MAC Address in IP Config menu.
Network Info	Display the network information.
Network Test	Press to test the network.

4. Press the **BACK** or **MENU** button to return to the previous menu.
5. Press the **EXIT** button to return to normal TV viewing.

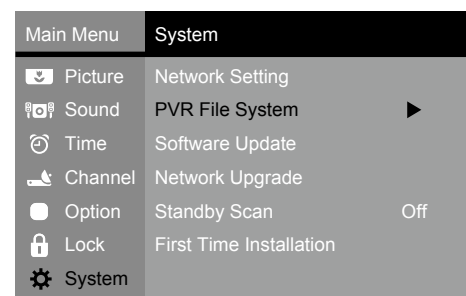
PVR File System (DTV Mode)

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

1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **System** menu and then press the **OK** button.

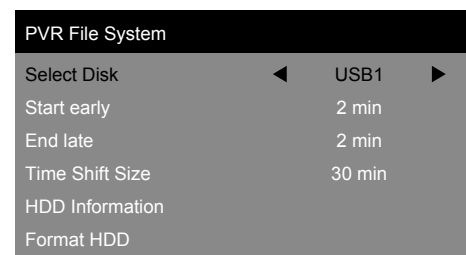


2. Press the **▲▼** buttons to select **PVR File System** and then press the **OK** button.



3. Press the **▲▼** buttons to select the following PVR File System options and then press the **◀▶** buttons to adjust the settings. Press the **MENU** button to return to the previous menu.

Select Disk	Selects the disk where you want to store your recorded content.
Start early / End late	A feature of adding extra recording time to the beginning or ending of a programme, so that you do not miss any part of the programme. Time can be select among: None / 1 / 3 / 5 / 10 / 15 / 30 / 45 Minutes.
Time Shift Size	Adjusts your preferred time shift file size.
HDD Information	Shows the space of your USB storage device.
Format HDD	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.



4. Press the **BACK** or **MENU** button to return to the previous menu.
5. Press the **EXIT** button to return to normal TV viewing.

Software Upgrade (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**.

Network Upgrade

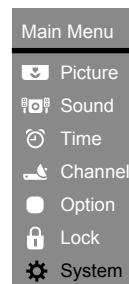
This function is only for servicing purposes. Any update information for this TV (if any) will be available at the following website or contact the our call centre:

- 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**.

Standby Scan

When the TV is put into standby mode a standby scan will be performed, during this process the TV will scan for new channel information and automatically update the channel list if any changes are found, both the visual and audio functions will be off, once the scan is complete the TV will stay in standby mode.

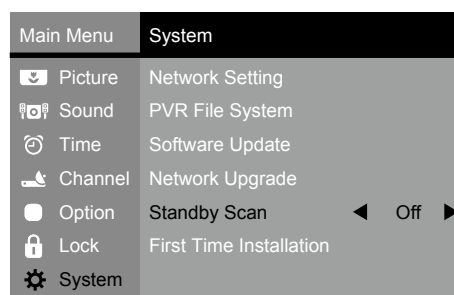
1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **System** menu and then press the **OK** button.



2. Press the **▲▼** buttons to select **Standby Scan** and then press the **◀▶** buttons to select **On / Off**.



During the processing of scanning in standby mode, the LED will blink in red, and the joystick function button can't operate to wake up the TV. Press the **⏻** button on the remote control to switch on the TV.

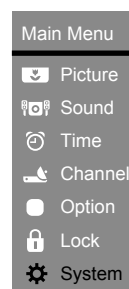


3. Press the **BACK** or **MENU** button to return to the previous menu.
4. Press the **EXIT** button to return to normal TV viewing.

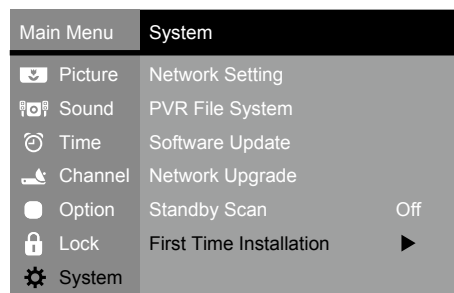
First Time Installation

Restores all settings to the factory defaults.

1. Press the **MENU** button to display the **Main Menu**. Press the **▲▼** buttons to select the **System** menu and then press the **OK** button.



2. Press the **▲▼** buttons to select **First Time Installation** and then press the **OK** button.
3. 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.



4. Press the **BACK** or **MENU** button to return to the previous menu.
5. Press the **EXIT** button to return to normal TV viewing.

EPG (Electronic Programme Guide) (DTV or Radio 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. Press the **OK** button to confirm.

Button Functions in a 7-Day Guide

Remote Control Button	Function
RED (Timer)	<ul style="list-style-type: none"> • Display the Recorder or Reminder setting menu. • In Recorder or Reminder, press the ▲◀▶▼ buttons to adjust the settings and then press the OK button to confirm the settings. After confirmation, press the INDEX button, the Schedule List will then be displayed with your preset reminders shown. Press the INDEX button to return to the EPG. The TV will automatically tune to the selected programme when it starts. • Delete the selected preset reminder in the Schedule List.
GREEN (Jump to Now)	Jump to current programme of your desired channel.
YELLOW (Prev Day)	View the schedule of the previous day in EPG.
BLUE (Next Day)	View the schedule of the next day in EPG.
i	Press to display detailed information of the selected programme (if available).
INDEX (Schedule List)	<ul style="list-style-type: none"> • 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 ▶	<ul style="list-style-type: none"> • Switch between channel window or programme window in EPG. • Switch between Recorder or Reminder setting window. • Adjust the settings in Recorder or Reminder menu.
OK	View the selected programme information.
GUIDE / EXIT	Switch off the EPG.

Schedule List				20:43 19 / 11 / 2019
	Time	Date	Channel Name	Programme Title
+	09:43	Mon 20 / 11 / 2019	BBC One	24 Hours in A&E
+	15:23	Tue 21 / 11 / 2019	CBeelies	Honey
+	12:25	Wed 22 / 11 / 2019	Kids 4	Cook with Fanny
+	20:43	Fri 24 / 11 / 2019	BBC Three	Rock n Roll
Delete				

Red Button (Interactive Services)

Red button services are available on BBC TV and Radio channels. The services are gradually changing to an internet based service rather than the conventional 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.

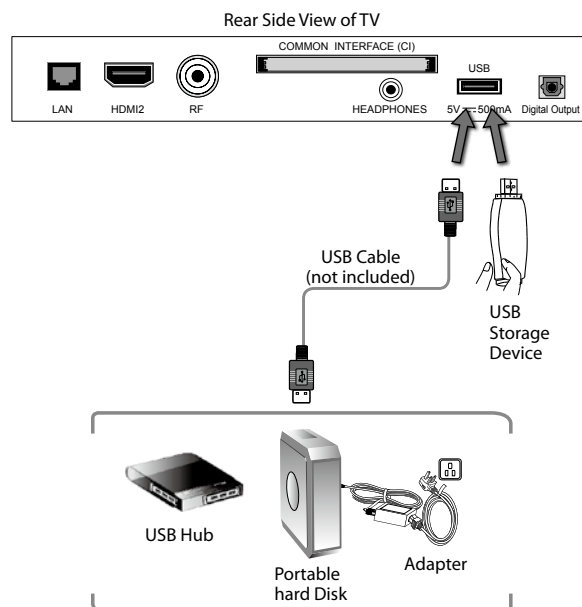
To access the pages, use navigation buttons to highlight item required and press the **OK** button to select.

Follow on screen prompts for other functions.

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

Connecting a USB Storage Device

1. Switch off the TV before connecting any USB storage device.
2. Connect the supplied USB extension cable and 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 center of joystick function button under the TV frame or the  button on the remote control to turn on your TV and your USB storage device.
5. Press the **INPUT** button on the remote control to display the **Input Source** menu. Use the **▲▼** buttons on the remote control to select **USB** and then press the **OK** button to confirm.



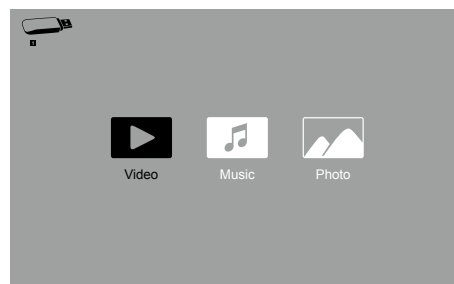
- If a hard disk is used, make sure its mains adapter is connected to the mains supply.
- If a USB hub is used, make sure its mains adapter is connected to the mains supply as the total current consumption may exceed 500mA.
- The maximum supported storage space of the hard disk is 1 TB.
- The file system only supports FAT32 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 Video

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 **Video** and then press the **OK** button.



Some video file formats will not be supported.



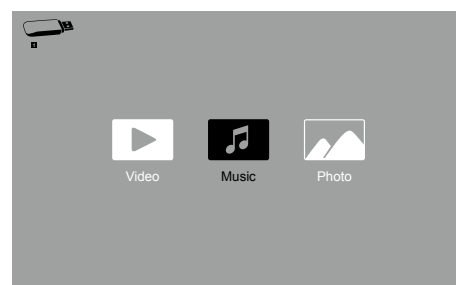
- Press the **▲◀▶▼** buttons to navigate in the folder and then press the **OK** button to confirm. A tick will be displayed at corner.



- Press the **▶ PLAY** button to start playing the video.
- The function bar will display for a while or press the **i** button to display the function bar again. Press the **◀▶** buttons and then press the **OK** button to select the function: Stop / Play (Pause) / Rev / FF / Previous / Next / Slow Motion / Repeat (Repeat All / Repeat Off / Repeat 1) / Play List / Info.
- Press the **◀▶** buttons and then Press the **EXIT** button to return to the previous menu.

Listening to Music

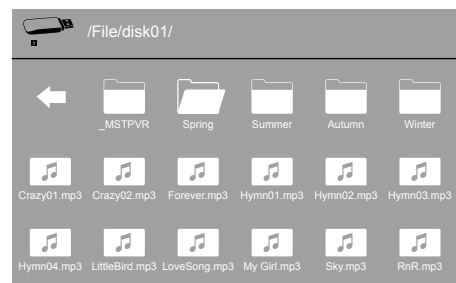
- Press the **INPUT** button on the remote control then press the **▲▼** buttons to select the **USB** mode and then press the **OK** button.
- Press the **◀▶** buttons to select **Music** and then press the **OK** button.



- Press the **▲◀▶▼** buttons to navigate in the folder and then press the **OK** button to confirm. A tick will be displayed at corner.



Some audio file formats will not be supported.



- Press the **▶ PLAY** button to start playing the music. The music information (Title / Album / Artist / Year / Sample Frequency / Bit Rate) will be displayed in player window.
- The function bar will display for a while or press the **i** button to display the function bar again. Press the **◀▶** buttons and then press the **OK** button to select the function: Stop / Play (Pause) / Rev / FF / Previous / Next / Repeat (Repeat Off / Repeat 1 / Repeat All) / Play List.
- Press the **EXIT** button to return to the previous menu.

Viewing Photos

1. Press the **INPUT** button on the remote control then press the **▲▼** buttons to select the **USB** mode and then press the **OK** button.
2. Press the **◀▶** buttons to select **Photo** and then press the **OK** button.

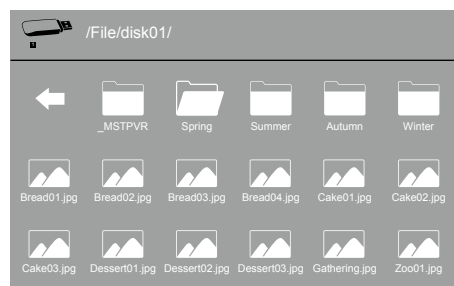
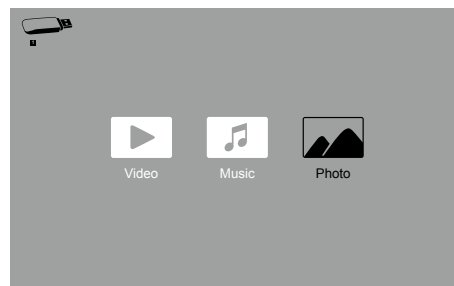


Supported file formats: JPG.

3. Press the **▲◀▶▼** buttons to navigate in the folder and then press the **OK** button to confirm. A tick will be displayed at corner..



If this folder also contains music files, you can select a music track to play at the same time you view your photos.



4. Press the **▶** **PLAY** button to start viewing the photo.
5. The function bar will display for a while or press the **i** button to display the function bar again. Press the **◀▶** buttons and then press the **OK** button to select the function: Stop / Play (Pause) / Rotate / Zoom / Previous / Next / Repeat (Off / Repeat 1 / Repeat All) / Play List / Info / BG Music.
6. Press the **EXIT** button to return to the previous menu.

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 **||** 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 **▶ PLAY** 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 Current channel and name
- 2 Current programme
- 3 Indicates the time lagging behind the live broadcast (PVR reviewing)
- 4 Indicates the available recording time on your USB storage device

Using the Remote Control

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

◀◀ or ▶▶	When playing, <ul style="list-style-type: none"> • 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 ▶ PLAY button to return to normal playback.
⏮ or ⏭	<ul style="list-style-type: none"> • Press the ⏭ button to jump about 30 seconds forward. • Press the ⏮ button to jump about 30 seconds back.
▶ PLAY or	<ul style="list-style-type: none"> • During playback, press the button to display a still screen and then press the ▶ PLAY button again to resume playback. • During fast forward / fast backward state, press the ▶ PLAY 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.

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.

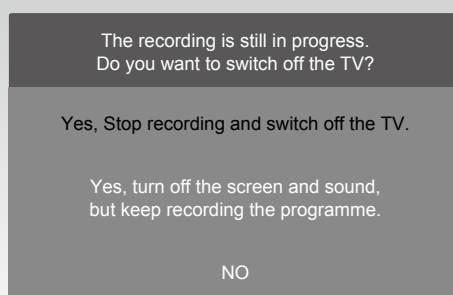
The recording from timer programme or direct recording may have a little bit of delay when it starts to record the broadcast programme.

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.



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 middle option in the box, the screen will turn off but the recording will still in progress, the LED indicator will flash red.



- Recording will stop automatically when the disk is full.
- When **Start early** and **End late** are set (for more details, please refer to the section **PVR File System (DTV Mode)** on page 47), the start time and end time will be the time plus the additional minutes.
- If scheduled time slots are next to each other and there is more than one minute between the end time of the first schedule and the start time of the next schedule, programmed recording will be performed as scheduled.
- If scheduling times overlap, priority will be given to the programmed recording which starts first. When the programmed recording that started first ends, recording will switch to the next scheduled programme. At this time, depending on how far the scheduling times overlap, the beginning section of the next scheduled programme may not be recorded.

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.

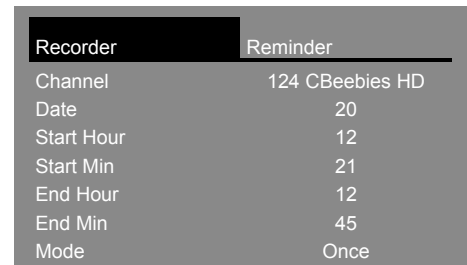
1. Press the **GUIDE** button on the remote control. The **EPG** menu will appear.



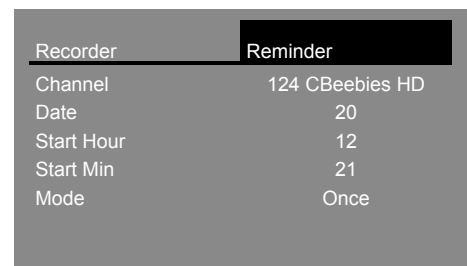
2. Press the **RED** button on the remote control while on the selected programme, the **Recorder** or **Reminder** menu will be displayed. Press the **◀▶** buttons to select **Recorder** (recording programme) or **Reminder** (auto tune to select programme on preset timing).
3. The recording time for the selected programme will be automatically set. If you want to adjust manually, press the **▲◀▶▼** buttons to select the settings in the **Recorder** menu or **Reminder** menu for the Channel, Date, Start Hour, Start Min, End Hour (for recording only), End Min (for recording only) and Mode (Once, Every Day, Weekly).
4. After finishing all setting, press the **OK** button to confirm your settings at **Mode** option.



- If you want to review all schedule, you can either select **Schedule List** under **Channel** menu or press the **INDEX** button in the EPG menu.
- If a programme recording starts when the TV is in standby mode, the LED indicator will flash red.



(recorder list)

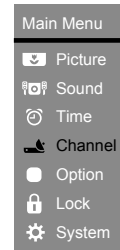


(reminder list)

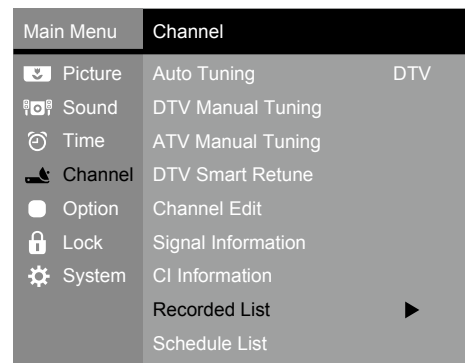
Playing Recorded Programme

You can play a recorded programme from the recorded programme list.

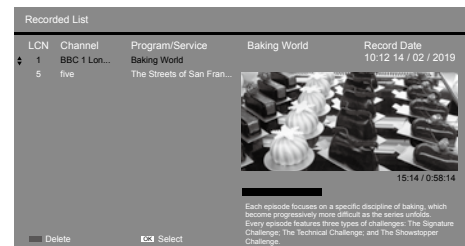
1. Press the **MENU** button to display the main menu. Press the **▲▼** buttons to select the **Channel** and then press the **OK** button.



2. Press the **▲▼** buttons to select **Recorded List** and then press the **OK** button. The **Recorded List** will be displayed.



3. Press the **▲▼** buttons to select the recorded programme and then press the **OK** button to view. Press the **RED** button to delete the desired programme.



4. The function bar will display for a while. Press the **i** button to display the function bar again. Press the **◀▶** buttons and then press the **OK** button to select the function: Stop / Play / Pause / Rev / FF / Previous / Next.



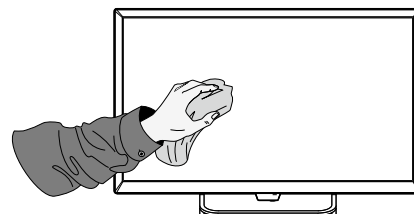
Maintenance

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



Be sure to press the  button 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, benzene, paint-thinner, cleaning fluid or other chemicals. Do not use compressed air to remove dust.

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Check whether the TV is switched on. • Try another channel. The problem may be caused by the broadcaster.
Picture appears slowly after switching on	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Check aerial (Change the position of the aerial.)

No pictures when connecting HDMI	<ul style="list-style-type: none"> Check if the input source is HDMI 1 / HDMI 2.
Picture appears in wrong ratio	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Press the VOL + / - buttons. Sound muted? Press the  button. Try another channel. The problem may be caused by the broadcaster.
No output from one of the speakers	<ul style="list-style-type: none"> Adjust the Balance settings in the Sound menu.
Unusual sound from inside the TV	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Check if the input source is HDMI 1 / HDMI 2.
Audio noise	<ul style="list-style-type: none"> Keep the RF coaxial cable away from other connected cables.
Distorted sound	<ul style="list-style-type: none"> Adjust the Sound Mode in the Sound menu, depending on the type of program you are watching. If still have distorted sound, switch off the Surround Sound in Sound menu, then re-adjust the Sound Mode in the Sound menu.

Password

Lost password	<ul style="list-style-type: none"> Select the Set Password setting in the Lock menu, then enter the following master password "9527". The master password clears your previous password and allows you to enter a new password.
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Channels are not recording.

Not all channels record	<ul style="list-style-type: none"> You can only record free to air channels. You may have 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.
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FAQs (Frequently Asked Questions)

Why have I lost some / all of my channels?	<ul style="list-style-type: none"> 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?	<ul style="list-style-type: none"> 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?	<ul style="list-style-type: none"> The freeview service 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?	<ul style="list-style-type: none"> 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.

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.

HDMI Mode

Resolution	Vertical Frequency (Hz)	Aspect Ratio
480i: 1440 x 480	60	Auto / 4:3 / 16:9 / Full / Zoom / Subtitle / SmartZoom
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	

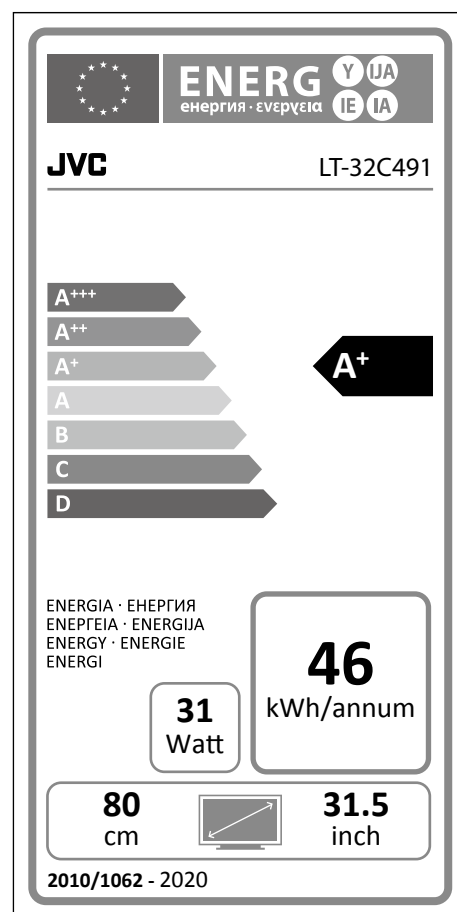
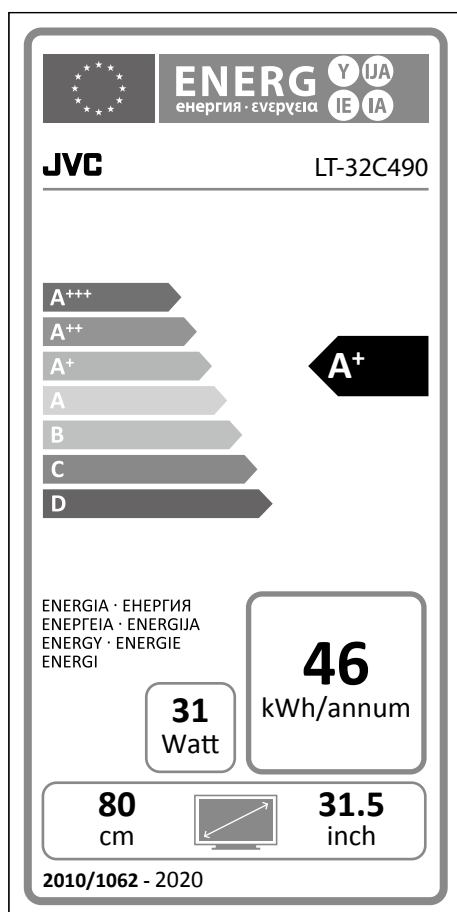
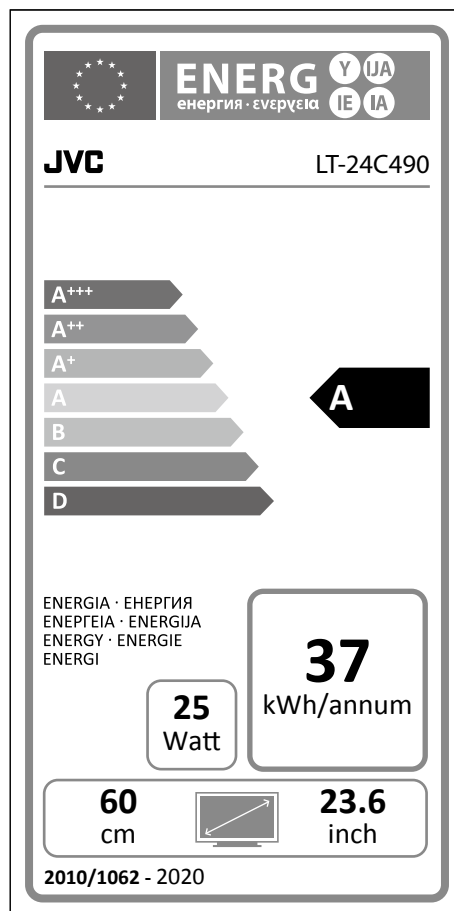
Product Fiche and Specifications

Brand	JVC	
Model	LT-24C490	LT-32C490 (Black) LT-32C491 (White)
Energy Efficiency Class	A	A+
Screen Size (measured diagonally)	Approx. 60 cm (23.6 inch)	Approx. 80 cm (31.5 inch)
Power Consumption (In HOME mode)	25.0 W	31.0W
Average Annual Energy Consumption * (Please refer to *1 under this table)	37 kWh	46 kWh
Standby Power Consumption	0.40 W	0.40 W
Display Resolution	1366 pixels (horizontal) x 768 pixels (vertical)	
Panel System	24 inch LED Backlit LCD Panel	32 inch LED Backlit LCD Panel
Television System	PAL I / SECAM L / BG / DK	
Brightness	170 cd/m ²	220 cd/m ²
Contrast Ratio	3000:1	3000:1
Peak Luminance (On-Mode/ Home Mode)	70%	
Power Source	100-240V~50/60Hz	
Off Power Consumption	N/A	
Operating Temperature	0°C – 40°C	
Operating Humidity	10% – 80%	
Mercury Content (mg)	0.0 mg	
Presence of Lead * (Please refer to *2 under this table)	✓	
Reference Period	2010/1062 – 2020	
Speaker Power	3 W + 3 W	8 W + 8 W
Dimension (W x D x H) with base	555.5 x 179.7 x 373.3 mm	735.8 x 203.9 x 474.2 mm
Weight (Net)	2.4 kg	3.9 kg
Inputs / Output		
HDMI	2	
Common Interface	1	
AV	1	
Digital Audio Output (Optical)	1	
USB	1	
Aerial	1	
Headphone (3.5mm)	1	
LAN (Internet Connection)	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.



Remote Control Codes

Sky Codes

The codes for controlling your TV using a Sky Remote Control (rev. 10 or later) are **3456, 3460, 3830, 3859**. For instruction on how to use the code, see your Sky instruction manual.

Virgin Media Codes (TiVo box)

The codes for controlling your TV using a Virgin Media Remote Control are **2788**. For instruction on how to use the code see your Virgin Media instruction manual.

BT Vision

The codes for controlling your TV using a BT Vision Remote Control are **0699**. For instruction on how to use the code see your BT Vision instruction manual.

Useful Information and Licences

All the support you need.

Currys.co.uk

Whether it's a tech emergency or you need plain good advice, we're always on hand to help, call (UK) **0344 5611234** or (Ireland) **1 890 818 575**.



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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

Any use of this product in any matter other than personal use that complies with the MPEG-2 standard for encoding video information for packaged media is expressly prohibited without a license under applicable patents in the MPEG-2 Patent Portfolio, which license is available from MPEG LA, LLC, 6312 S. Fiddlers Green Circle, Suite 400E, Greenwood Village, Colorado, 80111 U.S.A.

Dolby Audio

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The "HD Ready" logo is a trademark of DIGITALEUROPE.

The Freeview service and channels are subject to coverage and may be changed from time to time. Aerial upgrade and/or receiver may be required. Visit freeview.co.uk/availability. The FREEVIEW words and logos are trade marks of DTV Services LTD. © DTV Services Ltd

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Dear Customer,

This apparatus is in conformance with the valid European directives compatibility and electrical safety.

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

EU Representative

DSG Retail Ireland Ltd (259460)
3rd Floor Office Suite
Omni Park SC, Santry, Dublin 9, Republic of Ireland

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



Hereby, DSG Retail Ltd., declares that this TV (LT-24C490 / LT-32C490 / LT-32C491) 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.

The product is distributed and warranted exclusive by DSG Retail Ltd.
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