

JVC

Instruction Manual

50" LED FULL HD TV

LT-50C550



HD TV 1080p

DD
DOLBY
AUDIO

FreeviewHD

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

dts
TruSurround

WE KNOWHOW TO HELP YOU WITH YOUR TV

FOR UK

We want you to be able to enjoy your new TV for many years. From getting it home and setting it up, to helping you get the most out of your new purchase. And in the unlikely event your TV lets you down, we can get it working again in no time.

Here are some of our TV services, but if you want to know more look us up at www.knowhow.com or call us on: 0344 561 1234.

TV SET UP & DEMO

We'll assemble the stand and connect your new TV to the existing equipment. We'll tune your TV so it's ready to watch. We'll also give you a demonstration of your new TV's functions.

TV WALLMOUNT & DEMO

We'll fix your TV to a suitable position on the wall and connect to your existing equipment, so it's all ready to go. We'll use neat wire management so you don't have to look at any untidy cabling and, to complete your fuss-free installation, we'll test and demonstrate your TV's functions.

FREESAT INSTALLATION

We'll set up the Freesat receiver and connect it to your existing dish, TV and cabling. We'll then tune in all available channels.

AERIAL INSTALLATION

We'll supply, install and align a new, high quality aerial and connect it to your Freeview receiver and TV. Then we'll scan and tune in all available digital channels.

HOME CINEMA OR SOUNDBAR INSTALLATION

We'll un-box, connect and set up your new and existing equipment. We'll then configure, calibrate and optimise the equipment. To avoid ugly trailing cables we'll clip them to your skirting board if you'd like us to. Then we'll give you a demonstration.

FAULT & FIX SERVICES

With our Fault & Fix services we can repair a wide range of products at our new state-of-the-art repair lab. This service is available for:

- Computer desktops
- Laptops
- Netbooks
- TVs



KNOWHOW®

Lifetime support for Currys PCWorld customers

WE KNOWHOW TO HELP YOU WITH YOUR TV



We want you to be able to enjoy your new TV for many years. From getting it home and setting it up, to helping you get the most out of your new purchase. And in the unlikely event your TV lets you down, we can get it working again in no time.

Here are some of our TV services, but if you want to know more look us up at www.knowhow.ie or call us on: 1 890 818 575.

TV SET UP & DEMO

We'll assemble the stand and connect your new TV to the existing equipment. We'll tune your TV so it's ready to watch. We'll also give you a demonstration of your new TV's functions.

TV WALLMOUNT & DEMO

We'll fix your TV to a suitable position on the wall and connect to your existing equipment, so it's all ready to go. We'll use neat wire management so you don't have to look at any untidy cabling and, to complete your fuss-free installation, we'll test and demonstrate your TV's functions.

TV & HOME CINEMA INSTALLATION

We'll un-box, connect and set up your new and existing equipment. We'll then configure, calibrate and optimise the equipment. To avoid ugly trailing cables we'll clip them to your skirting board if you'd like us to. Then we'll give you a demonstration.

FAULT & FIX SERVICES

With our Fault & Fix services we can repair a wide range of products at our new state-of-the-art repair lab. This service is available for:

- Desktop PCs
- Laptops
- Netbooks
- TVs



KNOWHOW®

Lifetime support for Currys  PCWorld customers

Contents

1	Safety Warnings	7
2	Preparation.....	10
	Unpacking the TV	10
	Installing / Removing the Base Stand	11
	– Installing the Base Stand.....	11
	– Mounting the TV to a Wall.....	12
	Front View and Bottom View Controls	13
	Rear View and Sockets.....	14
	Installing Batteries in the Remote Control	15
	Remote Control Operation Range.....	15
	Remote Control	16
3	Connections.....	18
	Making Video and Audio Connections.....	18
	Connecting an AV Device Using an HDMI Cable.....	18
	– HDMI ARC (Audio Return Channel) (HDMI 1 Only).....	19
	Connecting a Computer Using a VGA Cable	19
	Connecting an AV Device Using a Component (YPbPr) Cable	20
	Connecting an AV Device Using a SCART Cable	20
	Connecting an AV Device Using Composite Cable	21
	Connecting an Audio Receiver	21
	Connecting to Network.....	22
	Connecting Headphones.....	22
4	Initial Setup	23
	Turning the TV On for the First Time	23
	– Target Region Setting (UK only)	24
	– Selecting the Input Source.....	25
	– Channel Selection	25
	– Listening to the Radio (Radio Mode)	25
	– Display Channel Information	25
	– Volume Adjustment.....	25
5	Customising TV Settings	26
	Channel Setting (TV, DTV or Radio Mode).....	26
	– Auto Tuning	26
	– DTV Manual Tuning.....	27
	– ATV Manual Tuning.....	27
	– Channel Edit (ATV / DTV Mode).....	28
	– Signal Information (DTV Mode).....	29
	– CI (Common Interface) (DTV Mode).....	30
	– Software Update (Over Air Download) (DTV Mode).....	31
	– Software Update (USB) (DTV Mode)	31
	Picture Setting	32
	Sound Setting	34
	– Stereo / Dual Sound Reception (ATV Mode).....	35
	– Speaker Sound Output Selection (DTV Mode)	35
	Time Settings.....	36
	Option Setting	37
	– OSD Language	37
	– Audio Language (DTV Mode).....	37
	– Subtitle Language (DTV Mode)	38
	– Hearing Impaired.....	39
	– Country.....	39
	– PVR File System (DTV Mode).....	39
	– Restore Factory Default.....	40
	– Network Configuration	41
	– HDMI CEC (Consumer Electronics Control).....	42

Lock Setting	43
– Lock System	43
– Set Password	44
– Block Channel	45
– Parental Guidance	46
6 Using the Features	47
EPG (Electronic Programme Guide) (DTV or Radio Mode)	47
– Switch On / Off EPG.....	47
– Select a Programme	47
Red Button (Interactive Services).....	48
– Accessing the Information	48
7 Entertainment	49
Connecting a USB Storage Device.....	49
Viewing Movies	49
Listening to Music.....	50
Viewing Photos.....	51
My Text.....	52
8 PVR (Personal Video Recorder).....	53
Time Shift Function.....	53
Recording DTV Programme onto a USB Storage Device	54
Timer Programming	55
Playing Recorded Programme	56
9 Other Information.....	57
Maintenance	57
Hints and Tips.....	57
Display Modes.....	59
– YPbPr Mode	59
– PC Mode.....	59
– HDMI Mode	59
Product Fiche and Specifications	60
Remote Control Codes.....	62
– Sky Codes	62
Useful Information and Licences	62

Safety Warnings

- Read all the instructions carefully before using the unit and keep them for future reference.
- Retain the manual. If you pass the unit onto a third party make sure to include this manual.
- Check that the voltage marked on the rating label matches your mains voltage.
- **WARNING:** Never let people (including children) with reduced physical, sensory or mental capabilities or lack of experience and / or knowledge use electrical devices unsupervised.
- To avoid danger of suffocation, keep plastic bags out of reach of babies, children and domestic animals.
- Carefully attach the stand to the TV. If the stand is provided with screws, tighten the screws firmly to prevent the TV from tilting. Do not over tighten the screws and mount the stand rubbers properly.

Damage

- Please inspect the unit for damage after unpacking.
- Do not continue to operate the unit if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

Location of Unit

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

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

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

Wall Mounting

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

Temperature

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

Naked Flames

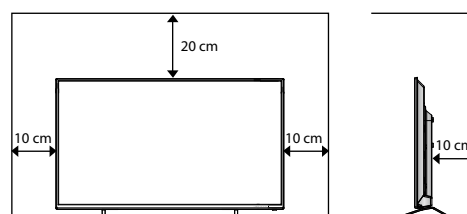
- Never place any type of candle or naked flame on the top of or near the unit.

Moisture

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

Ventilation

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



Safety

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

1 Safety Warnings

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.
- 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.

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.



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

Thank you

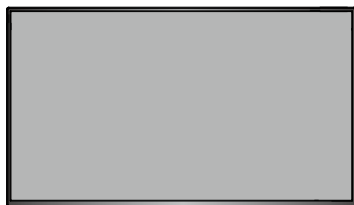
for purchasing your new JVC TV.
Your new TV has many features and incorporates the latest technology to enhance your viewing experience. We recommend that you spend some time reading this instruction manual so that you fully understand these features. You will also find some hints and tips to help you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

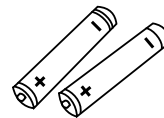
The following items are included:



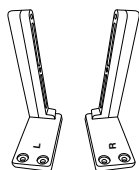
TV



Remote Control



AAA Batteries x 2



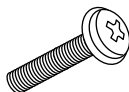
TV Stand Support (L) x 1
TV Stand Support (R) x 1



TV Stand Base



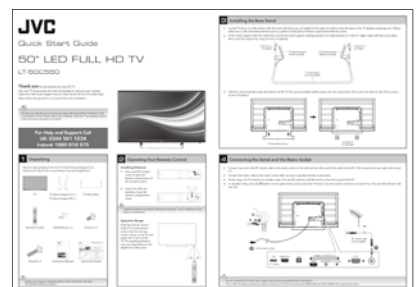
Screw A x 4



Screw B 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

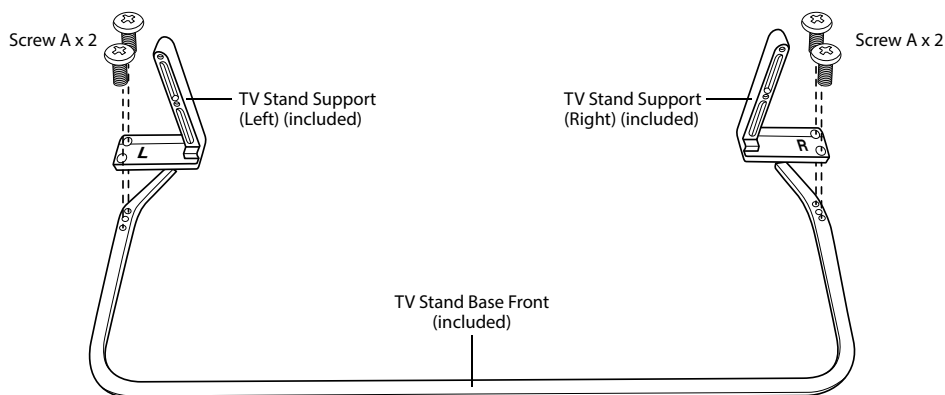


- The LCD display is very fragile, and must be protected at all times when installing and removing the base stand. Be sure that no hard or sharp object, or anything that could scratch or damage the LCD display, comes into contact with it. DO NOT exert pressure on the front of the TV at any time because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

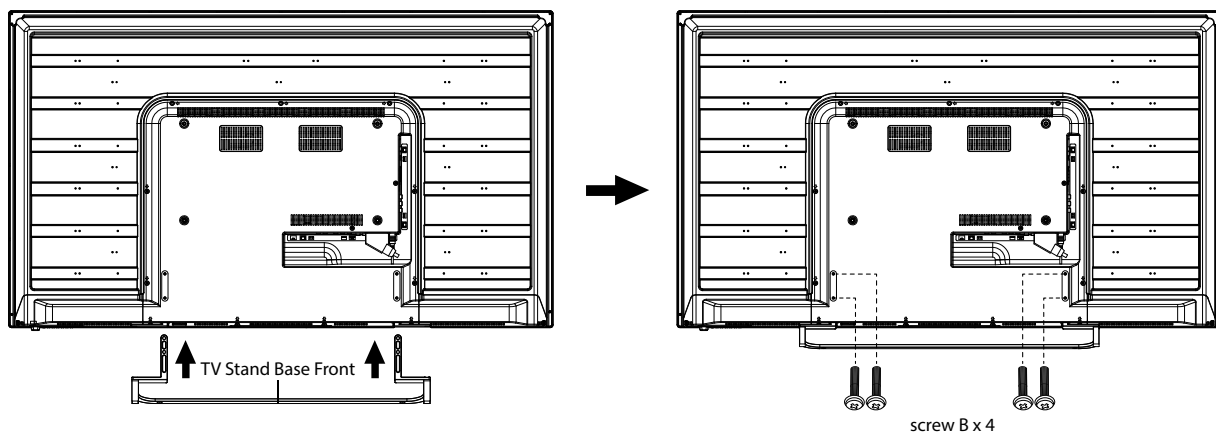
1. Disconnect all cables connected to the TV.
2. Lay the TV down on a flat surface with the back side facing up, and ideally at the edge of a table so that the base of the TV slightly overhangs on it. Please make sure a soft cushioned material (such as a pillow or thick piece of foam) is placed beneath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

Installing the Base Stand

1. Fit the stand support onto the stand base. Ensure the stand support marking position is in right position (L = left, R = right). Align with the screw holes then screw the support by using 4 screws A supplied.



2. Slide the stand assembly under the bottom of the TV. The stand assembly will fit snugly over the screw holes. Then screw the stand to the TV by using 4 screws B supplied.



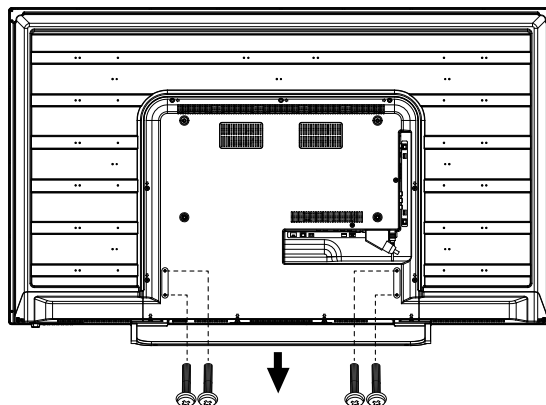
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance:
For UK, please call our UK Call Centre on **0344 561 1234**.
For Ireland, please call our Ireland Call Center on **1 890 818 575**.

Mounting the TV to a Wall



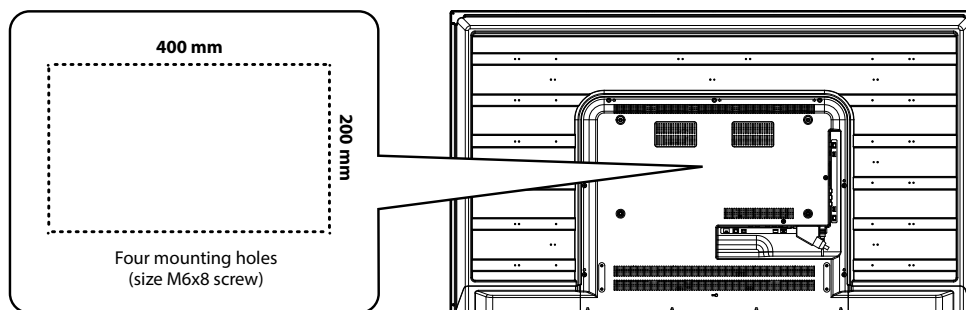
- Remove the stand assembly before mounting the TV onto the wall.
- It is recommended that two people take part in installation.

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



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

2. This TV is designed to be wall-mounted with a standard mounting kit (sold separately) designed for flat-panel TVs. Mount this TV according to the instructions included in the mounting kit. Due to space restrictions, we recommend that you make all connections (refer to page 18-22 and page 49 for details) before mounting on to the wall.

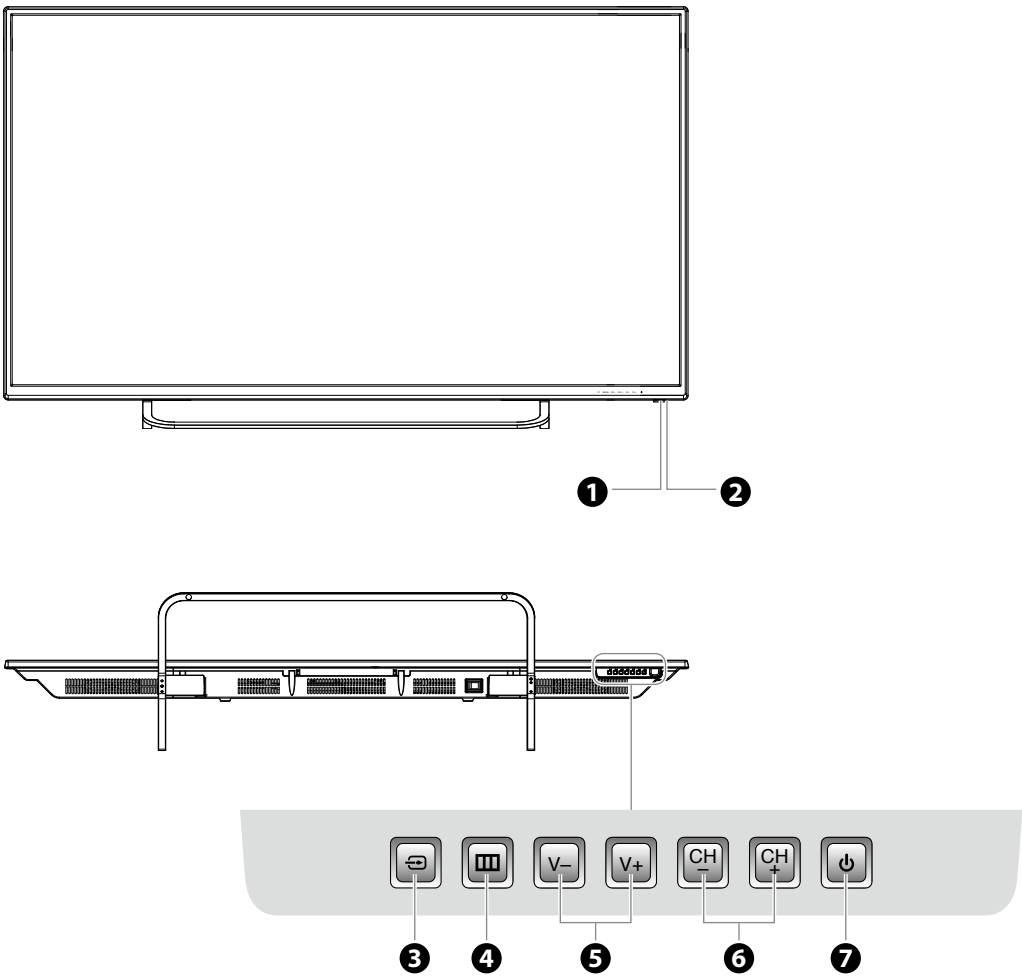


- Some models of TV are provided 4 screws inside the mounting holes. Be sure to use these supplied screws with your mounting kit when attaching the mounting hooks to the TV set. The supplied screws are designed for the TV. Use of screws other than those supplied may result in internal damage to the TV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



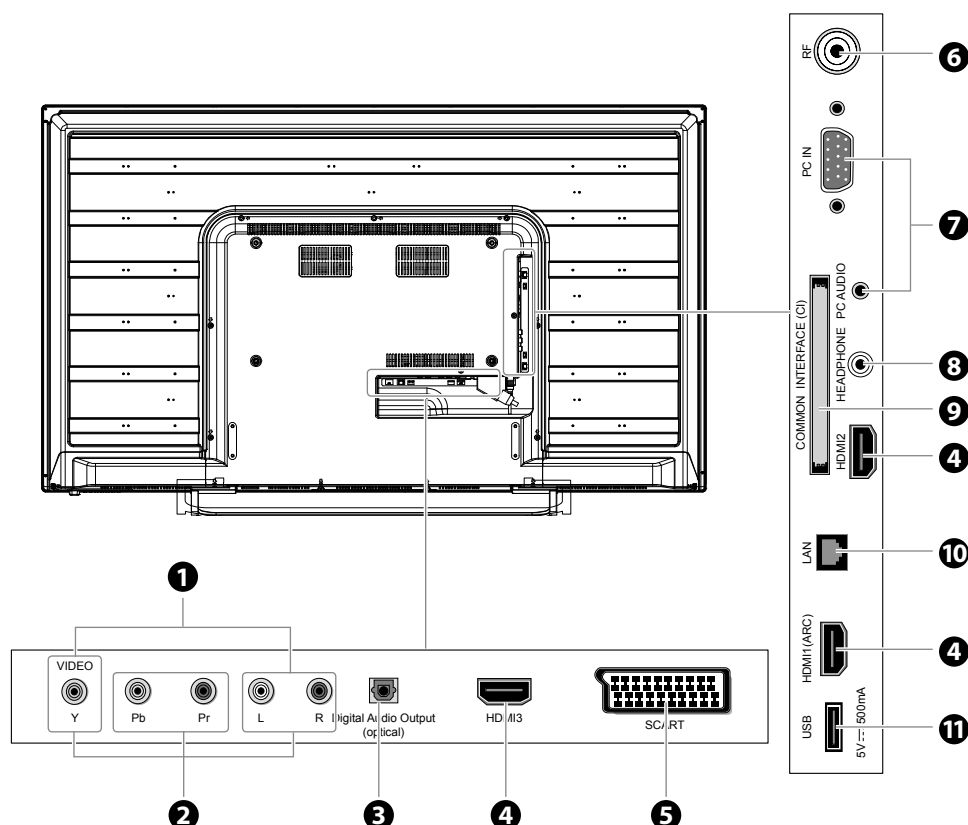
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance:
For UK, please call our UK Call Centre on **0344 561 1234**.
For Ireland, please call our Ireland Call Center on **1 890 818 575**.

Front 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 	Press to select among different input signal sources: DTV / CADTV (for Ireland only) / ATV / SCART / YPbPr / PC / HDMI1 / HDMI2 / HDMI3 / AV / USB. Confirmed selection on the OSD menu.
4 MENU 	Displays the OSD (on screen display) menu.
5 VOL (V) + / -	Adjusts the volume. Press to select and adjust a setting in the OSD menu.
6 CH + / -	Press to select a channel or select a sub-menu from the OSD menu.
7 	Switches the TV on from standby mode. Switches the TV back to standby mode.

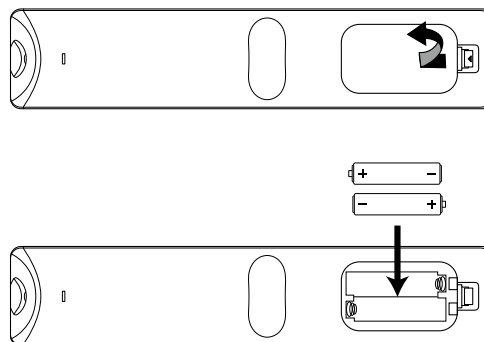
Rear View and Sockets



Item	Description
1 VIDEO / AUDIO (L/R)	Connects to the Composite VIDEO and AUDIO (L/R) output sockets on external video devices.
2 Y, Pb, Pr / AUDIO (L/R)	Connects to a DVD player, Digital Set-Top-Box, or other AV devices with component (YPbPr) video and audio output sockets.
3 Digital Audio Output (optical)	Connects to the audio socket on the digital/standard 5.1 audio system.
4 HDMI1 (ARC) / HDMI2 / HDMI3	Connects to a High-Definition (HD) signal output device, such as a set-top box, blu-ray disc player or AV receiver.
5 SCART	Connects to a VCR, DVD Player, or other AV device with a SCART output socket.
6 RF Aerial	Connects to the aerial socket on the wall with the RF coaxial cable.
7 PC IN / PC AUDIO	Connects to a computer or other devices with a VGA interface.
8 HEADPHONE	Connects to the headphones.
9 COMMON INTERFACE	Allows the insertion of a Common Access Module.
10 LAN	Connects your TV to the internet router by an Ethernet cable.
11 USB	Allows the insertion of a USB storage device to play video, audio, photo and text files (USB mode) and record DTV programmes on to a USB storage device.

Installing Batteries in the Remote Control

1. Press and lift the back cover to open the battery compartment of the remote control.
2. Insert two AAA size batteries. Make sure the (+) and (-) ends of the batteries match the (+) and (-) ends indicated in the battery compartment.
3. Close the battery compartment cover.



Handling the Batteries

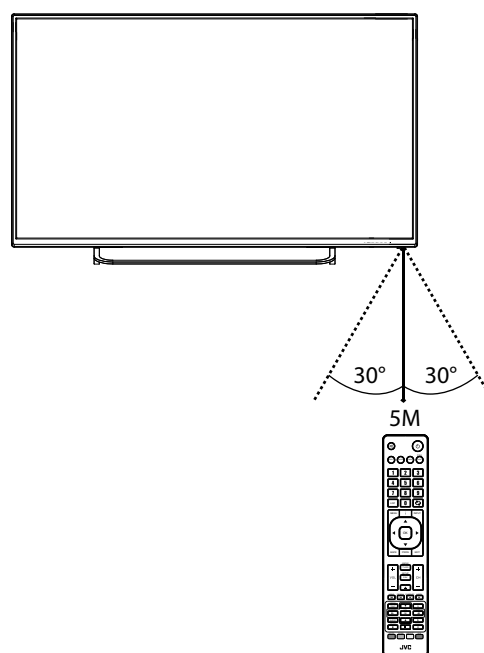
- Improper or incorrect use of batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Only use the battery type indicated in this manual.
- When the batteries are exhausted, the remote will not function. Replace both batteries at the same time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

Handling the Remote Control

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

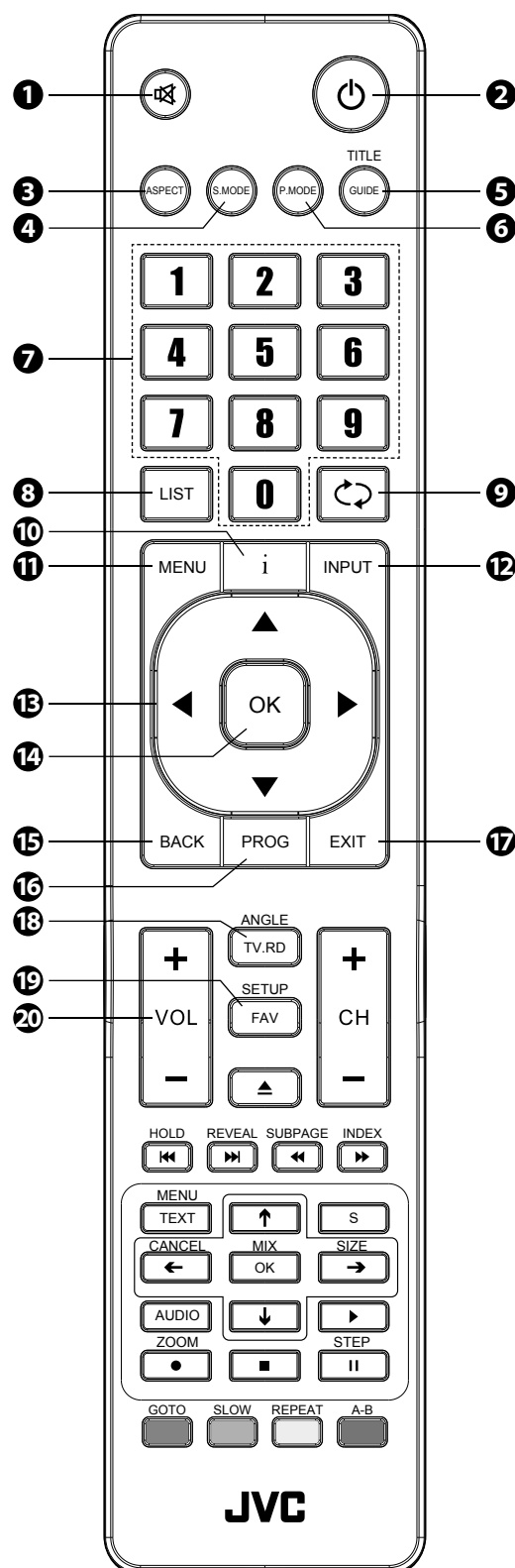
Remote Control Operation Range

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



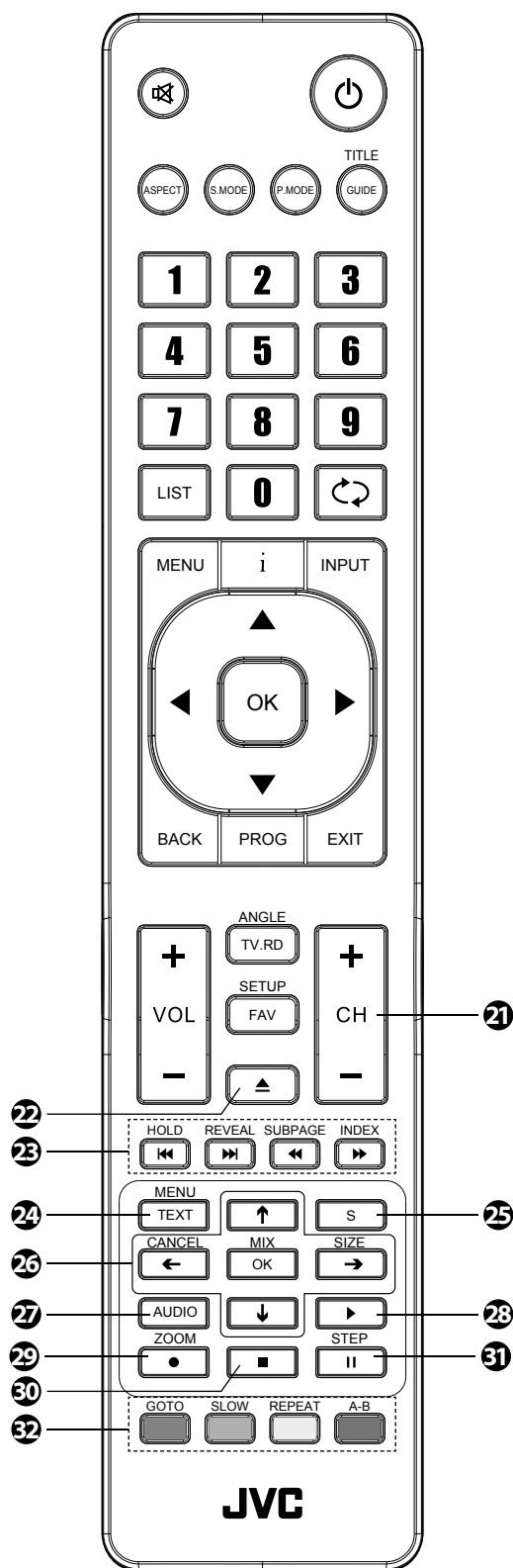
Remote Control

1. 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 / Full / Zoom / Subtitle / SmartZoom.
4. **S.MODE**
Select sound mode: Standard / Music / Movie / Sports / 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 / CADTV (for Ireland only) / ATV / SCART / YPbPr / PC / HDMI1 / HDMI2 / HDMI3 / 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.



Please note that there are DVD mode functions on the remote control only operate on TV models with a built-in DVD player.

- 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.



Please note that there are DVD mode functions on the remote control only operate on TV models with a built-in DVD player.

Making Video and Audio Connections

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

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

Best Video Performance

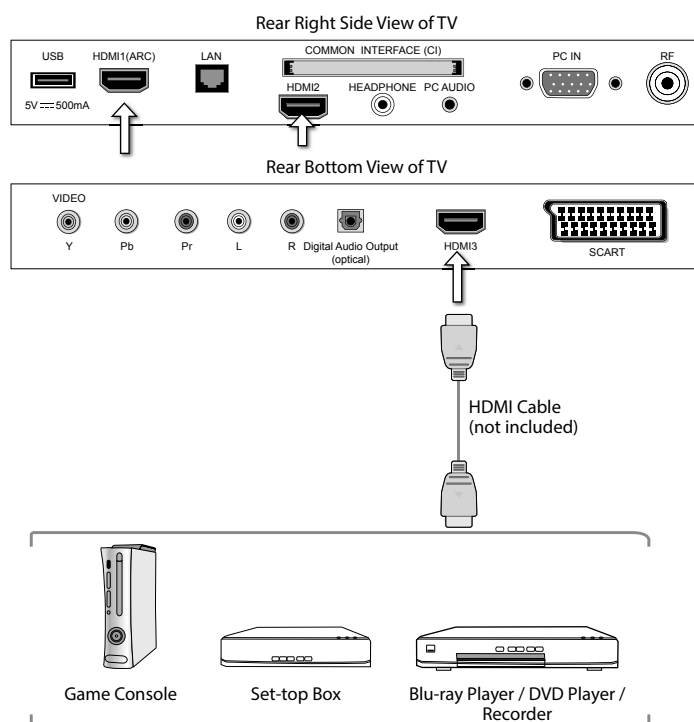
	Signal Type	Separate Audio Connection Required
HDMI1 	HDMI (480i/480p/576i/576p/720p/1080i/1080p)	No
PC IN 	PC	Yes  PC AUDIO
Y Pb Pr 	Component Video (480i/480p/576i/576p/720p/1080i/1080p)	Yes 
SCART 	SCART (RGB Input)	No
VIDEO 	Composite Video	Yes 

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 3 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  button on the right bottom panel under the TV frame or on the remote control to turn on your TV.
 - Press the  button on the right bottom panel under the TV frame or the **INPUT** button on the remote control to display the Source List. Use the   buttons to select **HDMI1(ARC)** / **HDMI2** / **HDMI3** and then press the **OK** button to confirm.



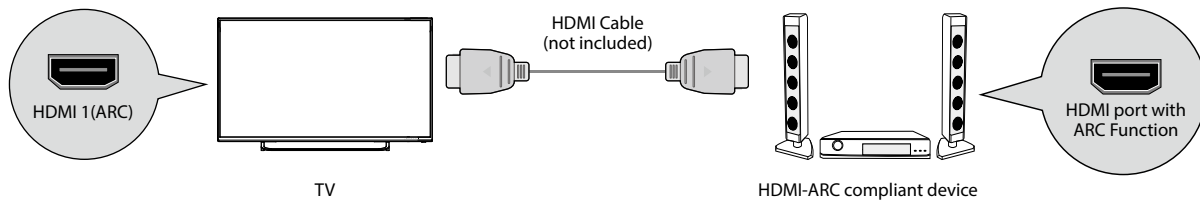
Although this TV is able to connect to an HDMI device, it is possible that some devices may not operate correctly.



HDMI ARC (Audio Return Channel) (HDMI 1 Only)

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.



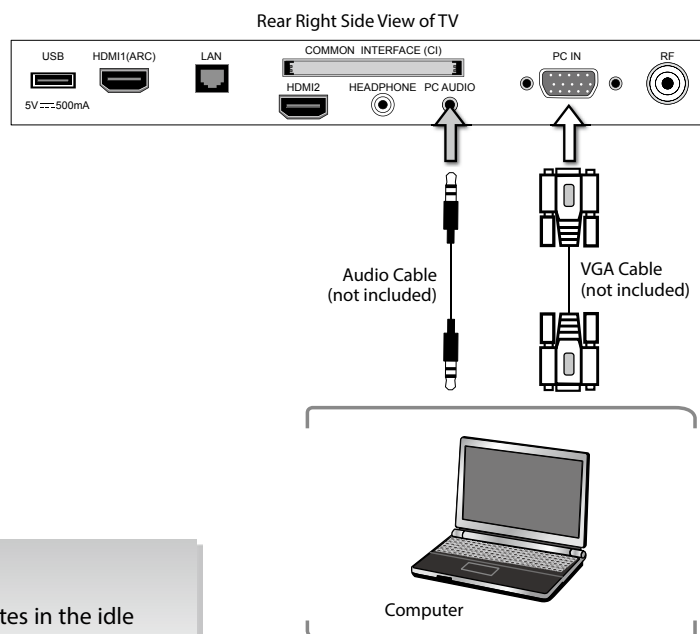
- Ensure that audio device is HDMI CEC and ARC compliant and that the TV is connected to the device using an HDMI cable attached to HDMI-ARC connectors.
- The HDMI 1 connector is HDMI Audio Return Channel (ARC) compliant. Use it to output digital audio to an HDMI home theater system.
- If the ARC-compliant 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 42 for details on **HDMI_CEC**).

Connecting a Computer Using a VGA Cable

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



- The best resolution is 1920 x 1080.
- If your computer is set to shut down after a few minutes in the idle mode, the TV will also switch to standby due to no signal being received, this is to save energy. Press the  button on the right bottom panel under the TV frame or on the remote control to restart the TV.

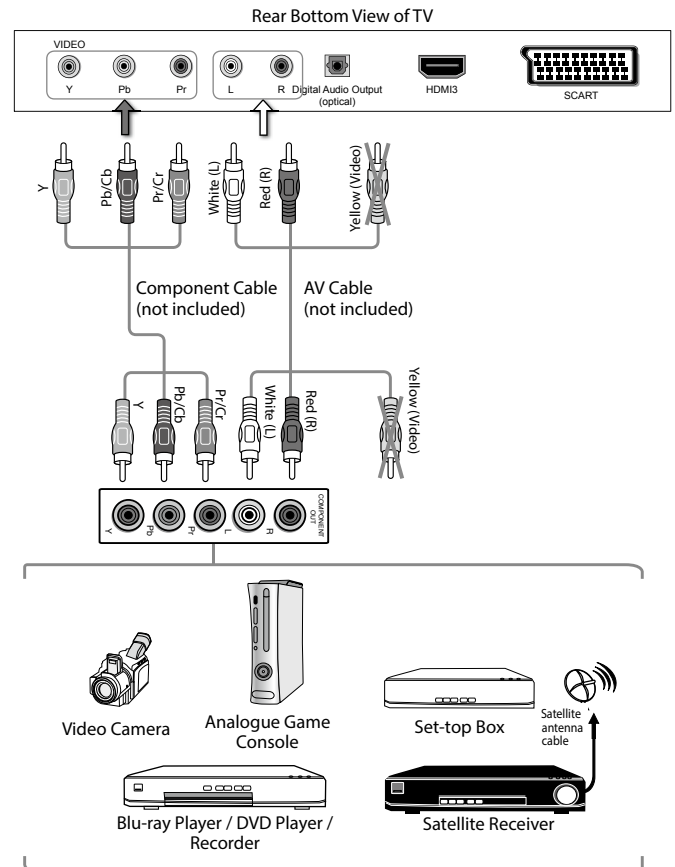


Connecting an AV Device Using a Component (YPbPr) Cable

1. Connect the component cable from the TV's YPbPr input sockets to an external AV device's component output sockets.
2. Use an AV cable to connect the TV's AUDIO(L/R) input sockets to the external AV device's component audio output sockets. (Audio Left = white, and Audio Right = red)

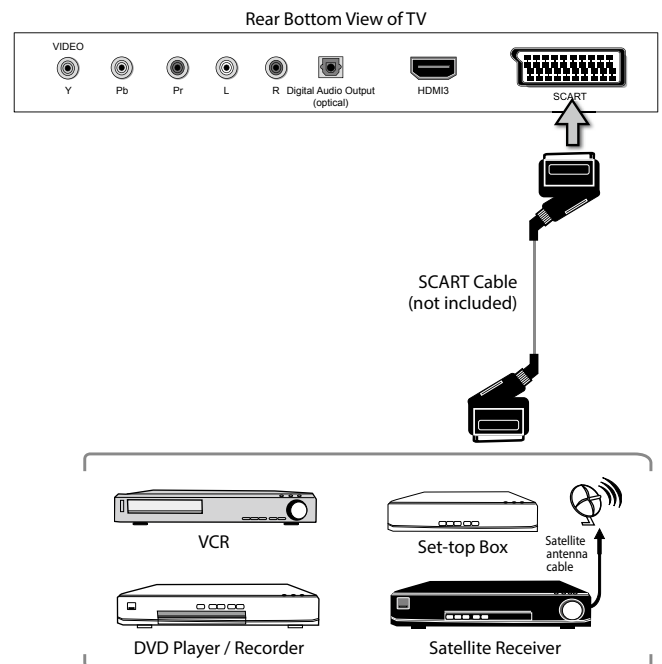
Component port on the TV	Y	Pb	Pr
Video output ports on DVD player	Y	Pb	Pr
	Y	Cb	Cr

3. Plug the connected devices into the mains socket before switching on the TV.
4. Press the  button on the right bottom panel under the TV frame or on the remote control to turn on your TV.
5. Press the  button on the right bottom panel under the TV frame or the **INPUT** button on the remote control to display the Source List. Use the   buttons to select **YPbPr** and then press the **OK** button to confirm.



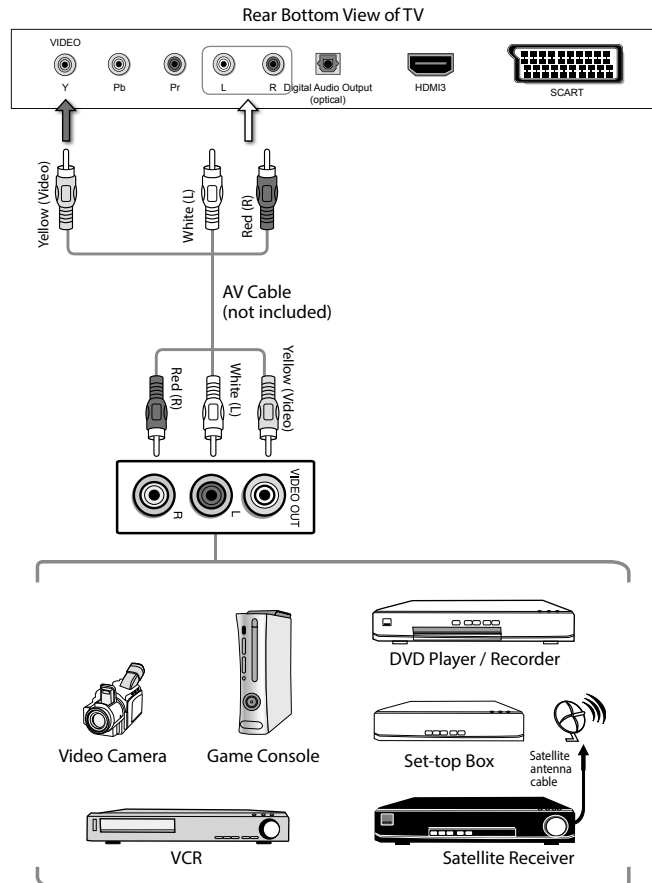
Connecting an AV Device Using a SCART Cable

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



Connecting an AV Device Using Composite Cable

1. Use an AV cable to connect the TV's AUDIO(L/R) / VIDEO 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 **⏻** button on the right bottom panel under the TV frame or on the remote control to turn on your TV.
4. Press the **⏮** button on the right bottom panel under the TV frame or the **INPUT** button on the remote control to display the Source List. Use the **▲▼** buttons to select **AV** and then press the **OK** button to confirm.



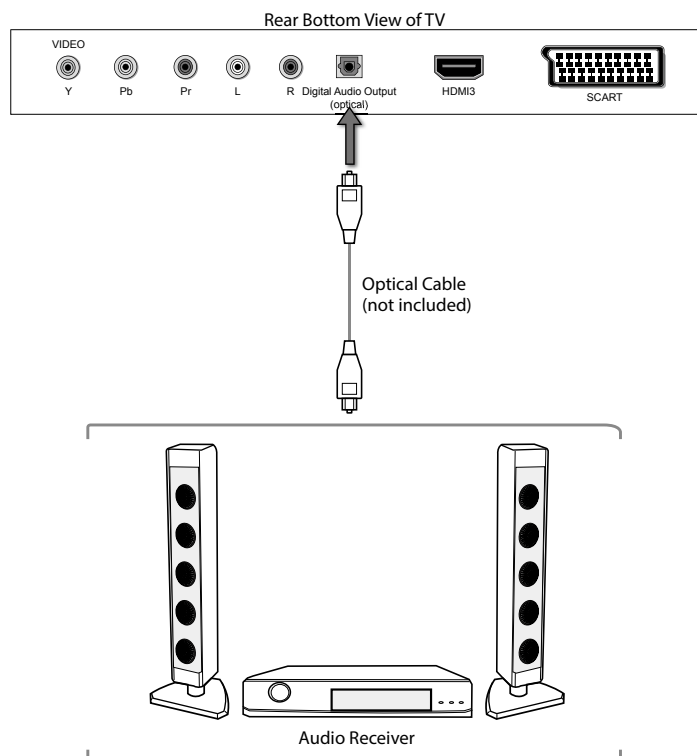
Connecting an Audio Receiver

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 optical input socket.
2. Plug the connected devices into the mains socket before switching on the TV.
3. Press the **⏻** button on the right bottom panel under the TV frame or on the remote control to turn on your TV.
4. Press the **⏮** button on the right bottom panel under the TV frame or the **INPUT** button on the remote control to display the Source List. 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.

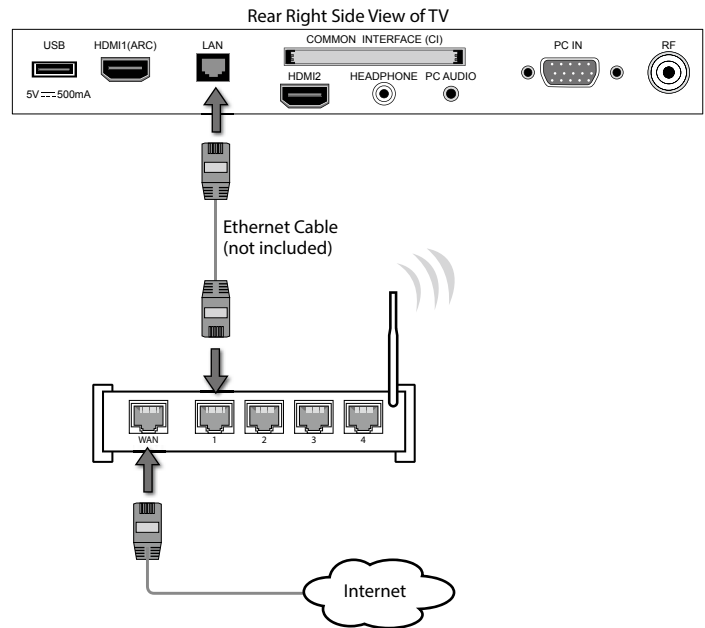


Connecting to Network

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.

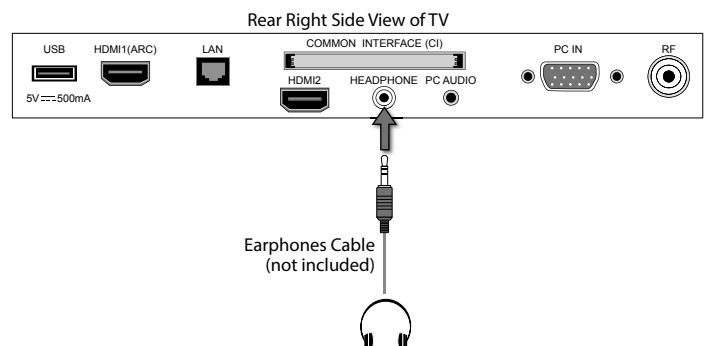
Connecting Headphones

Connect your headphones to the TV's HEADPHONE 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

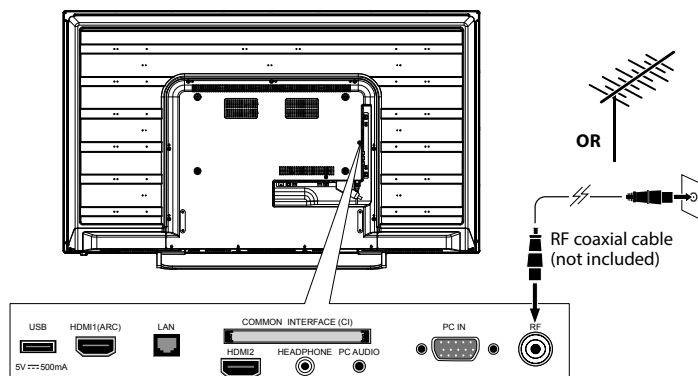


- This instruction manual explains the basic instructions for operating this unit. Unless otherwise stated, all operations described are based on remote control use.
- If you are going to watch TV using a set-top box, simply connect your TV and set-top box via a HDMI cable and select HDMI in the **Input Source** menu.

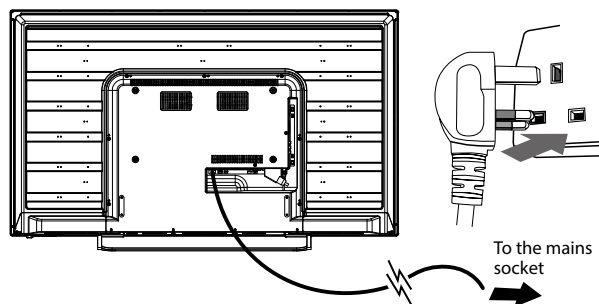
1. Connect one end of the RF coaxial cable to the aerial socket on the wall and the other end of the cable to the RF (75Ω) socket at the rear right side of your TV.



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 button on the right bottom panel under the TV frame or on the remote control to turn the TV on. The red LED indicator will turn off.

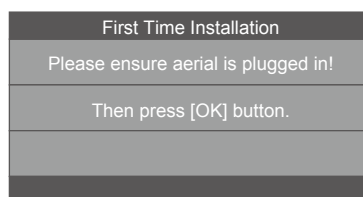


- Always disconnect the TV from the mains socket when not in use for a long period of time.
- The button on the right bottom panel under the TV frame or on the remote control is only used for switching the TV into standby, it does not disconnect the TV from the mains power. To completely disconnect the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

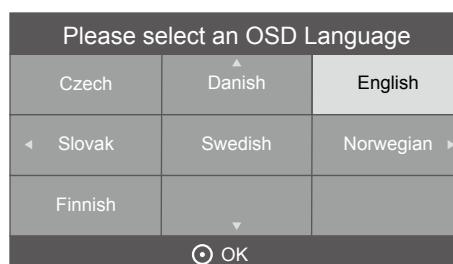
5. The first time you turn the TV on, it will go straight into the **First Time Installation** menu. Please ensure the aerial is plugged in and then press the **OK** button. (If you have already installed the TV using the Quick Start Guide, please go to the section "**Selecting the Input Source**" on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



6. 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.



4 Initial Setup

7. Press the ◀▶ buttons to select your desired mode and then press the **OK** button. Press the ◀ button to select **Yes** to confirm or the ▶ button to select **No** to cancel and return to the **Mode Select** menu.

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

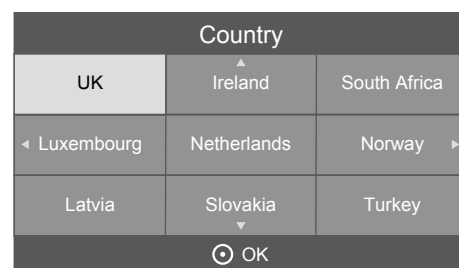


- For the best picture quality in your home environment, we recommend setting the TV to **Home Mode**.
- In **Shop Mode**, the default **Picture Mode** under the **PICTURE** menu is set as **Standard** (refer to page 32 for details) and the **Backlight** is set as 10 (refer to page 32 for details).

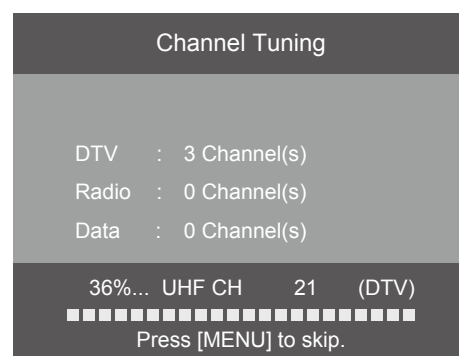
8. Press the ▲◀▶▼ buttons to select the country where you will operate the TV. Press the **OK** button to confirm.



If you have chosen Ireland as your country, select **DVBT** and then press the **OK** button.



9. DTV 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.
10. If you want to skip the DTV tuning, press the **MENU** button on the bottom right side under the TV frame or the **MENU** button on the remote control to interrupt the tuning half way. A pop-up screen will be displayed, press the ◀ button to select **YES** to confirm. If you want to go to ATV tuning, please refer to page 26 for details on **Auto Tuning**.
11. 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 28 for details).

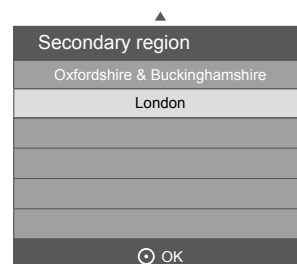
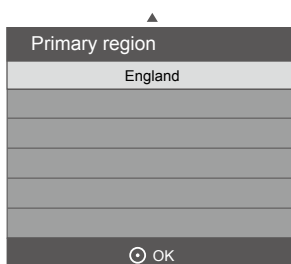
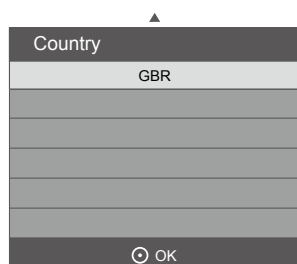


Target Region Setting (UK only)

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

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

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



Selecting the Input Source

1. Press the  button on the right bottom panel under the TV frame or 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 / CADTV (for Ireland only) / ATV / SCART / YPbPr / PC / HDMI1 / HDMI2 / HDMI3 / 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.



Alternative

Press the **TV.RD** button to switch to TV / digital radio channels directly.

Input Source
DTV
ATV
SCART
YPbPr
PC
HDMI1
HDMI2
HDMI3
AV
USB
 OK

(for UK)

Input Source
DTV
CADTV
ATV
SCART
YPbPr
PC
HDMI1
HDMI2
HDMI3
AV
USB
 OK

(for Ireland)

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 45 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 28 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 47 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.

Channel Setting (TV, DTV or Radio Mode)

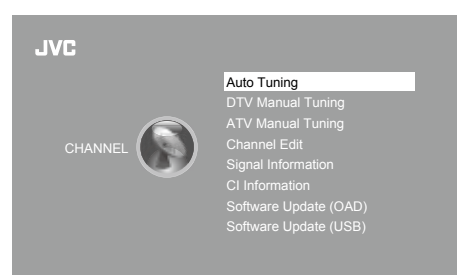
Auto Tuning

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 and then press the **▲▼** buttons to select the **CHANNEL** menu and then press the **OK** button.



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



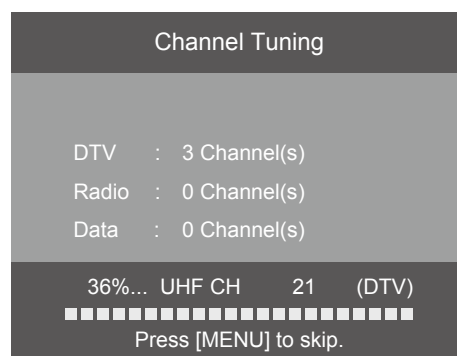
3. In the **Tune Type** menu, press the **◀▶** buttons to select **DTV / ATV / DTV+ATV**. Press the **▼** button and then press the **▲◀▶▼** buttons to select the country where you will operate the TV. Press the **OK** button to confirm.



For Ireland customer, if you have chosen **CADTV**, just **Ireland** can be selected as your country.



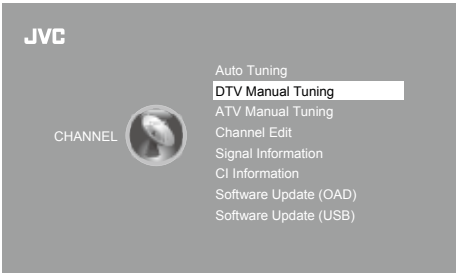
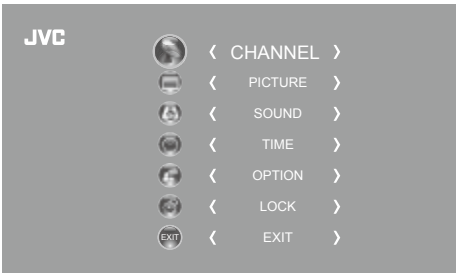
4. Channel tuning will commence. This operation may take up to 6 minutes. The display will show the progress of the tuning and the number of channels found.
5. If you want to skip the DTV tuning, press the **MENU** button to interrupt the tuning half way. A pop-up screen will be displayed, press the **◀** 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.
6. 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 24 for details.
7. After tuning is complete, the channels are arranged in a preset order. If you wish to skip channels, modify the preset order or rename channels, select **Channel Edit** under the channel menu (refer to page 28 for details).



DTV Manual Tuning

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

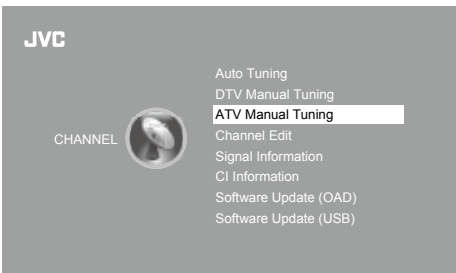
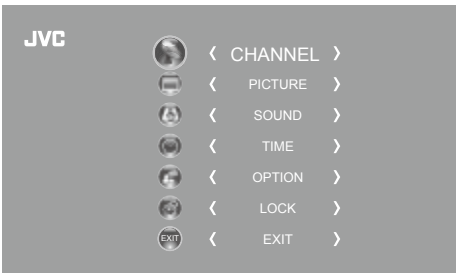
1. Press the **MENU** button and then press the **▲▼** buttons to select the **CHANNEL** menu and then press the **OK** button.
2. Press the **▲▼** buttons to select **DTV Manual Tuning** and then press the **OK** button.
3. The DTV Manual Tuning screen will pop up. Press the **◀▶** buttons to select 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 exit the menu.



ATV Manual Tuning

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

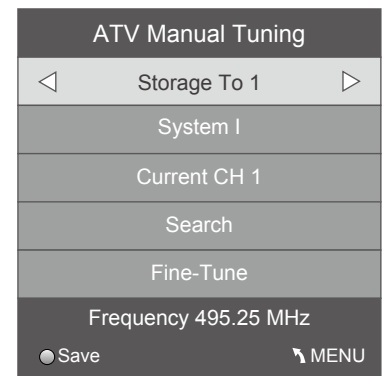
1. Press the **MENU** button and then press the **▲▼** buttons to select the **CHANNEL** menu and then press the **OK** button.
2. Press the **▲▼** buttons to select **ATV Manual Tuning** and then press the **OK** button.



5 Customising TV Settings

- 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.
System	Selects the sound system: I / DK / L (for SECAM) / M / BG.
Current CH	Displays the current channel number.
Search	Press the ◀▶ buttons to start the manual tuning.
Fine-Tune	Press the ◀▶ buttons to make manual fine tuning adjustments.
Frequency	Displays the current tuned frequency.



- 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 exit the menu.

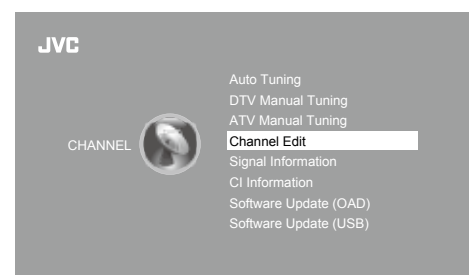
Channel Edit (ATV / DTV Mode)

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

- Press the **MENU** button and then press the **▲▼** buttons to select the **CHANNEL** menu and then press the **OK** button.



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



- 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. **Move**

Press the **YELLOW** button and then press the **▲▼** buttons to move to the selected channel. Press the **YELLOW** button to confirm.

d. **Skip**

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

e. **FAV** (Favourite)

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

4. Press the **MENU** button to return to the previous menu.

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

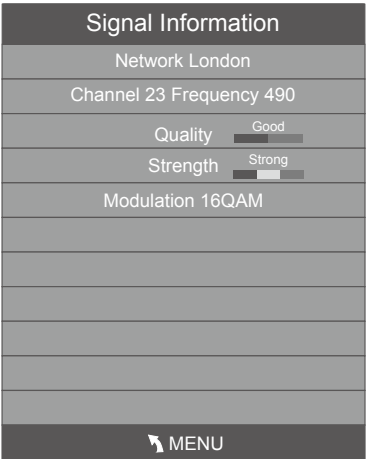
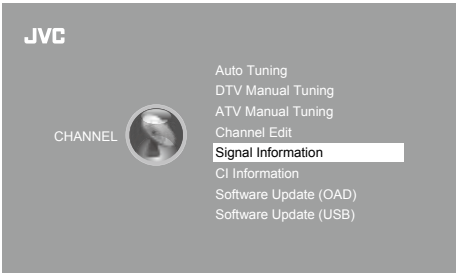
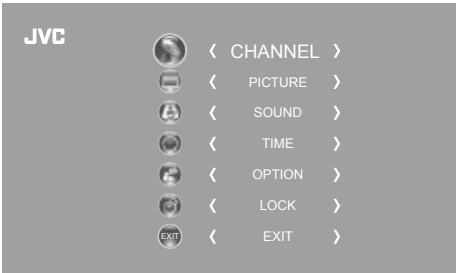


Care should be taken when editing the position of digital channels as this may affect EPG and reminder settings.

Signal Information (DTV Mode)

Allows you to view the signal information.

- 1. Press the **MENU** button and then press the **▲▼** buttons to select the **CHANNEL** menu and then press the **OK** button.
- 2. Press the **▲▼** buttons to select **Signal Information** and then press the **OK** button to view the signal information.
- 3. Press the **BACK** or **MENU** button to return to the previous menu.
- 4. Press the **EXIT** button to exit the menu.



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.

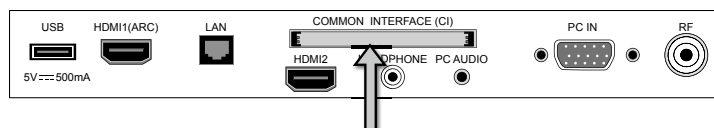
To view the module information

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



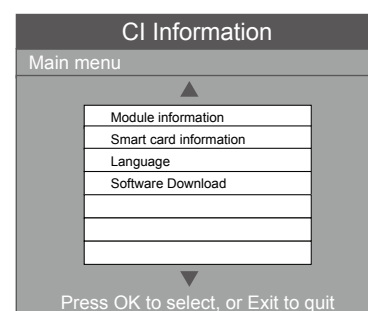
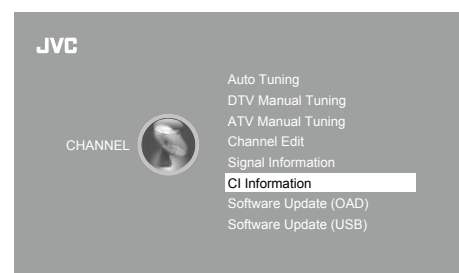
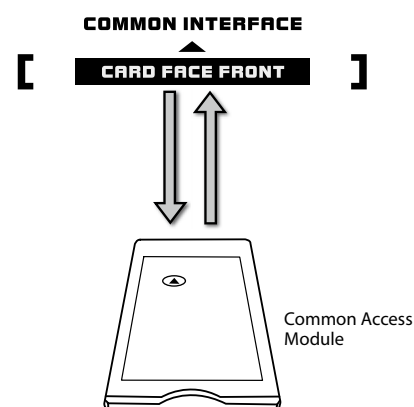
This screen is for illustration only.

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.



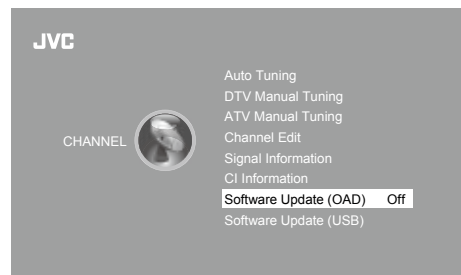
Software Update (Over Air Download) (DTV Mode)

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

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



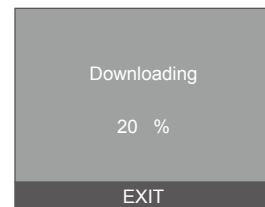
2. Press the **▲▼** buttons to select **Software Update(OAD)** and then press the **OK** button to confirm.
3. Press the **MENU** button to return to the main menu.
4. Press the **EXIT** button to exit the menu.



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

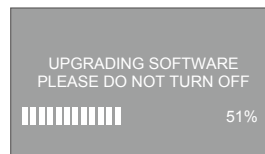


6. If you select **Yes**, the over air download will start. Press the **EXIT** button if you want to stop the download and exit the menu.
7. When the download is complete, the TV will return to standby mode. Press the **⏻** button on the right bottom panel under the TV frame or on the remote control to switch on the TV, the TV will automatically upgrade the software.



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

8. When the update is complete, the TV will return to standby mode.
9. Press the **⏻** button on the right bottom panel under the TV frame or on the remote control to switch on the TV.



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

1. Press the **MENU** button to go to the **MAIN** menu. Press the **▲▼** buttons to select **OPTION** and then press the **OK** button.
2. Press the **▲▼** buttons to select **Restore Factory Default** and then press the **OK** button. Press the **◀** button to select **Yes** to reset the setting.
3. The TV settings will be restored to factory default and will be switched off. Follow the **First Time Installation** steps (refer to page 23 for details) after you switch on the TV again.

Software Update (USB) (DTV Mode)

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

- 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**.

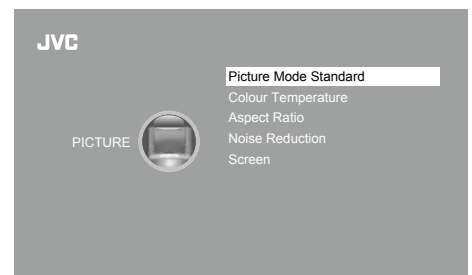
Picture Setting

Allows you to set your preferred picture mode.

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

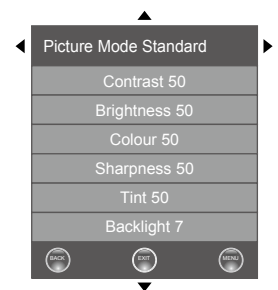


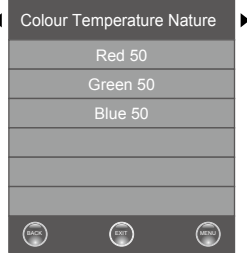
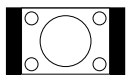
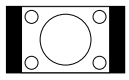
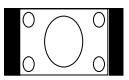
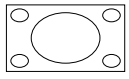
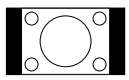
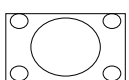
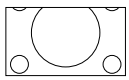
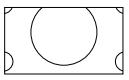
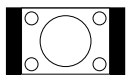
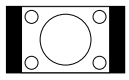
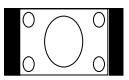
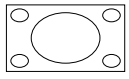
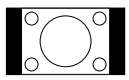
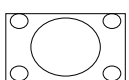
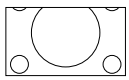
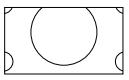
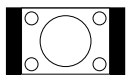
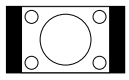
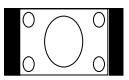
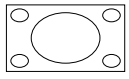
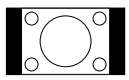
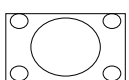
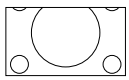
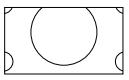
2. Press the **▲▼** buttons to select the following picture options and then press the **OK** button.

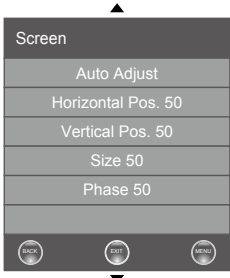


3. Press the **▲▼** buttons to select the options. Press the **OK** button and then press the **◀▶** buttons to adjust each option's setting.

Picture 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.
	 Increasing the backlight setting will increase the brightness and display performance of the screen. The higher the setting is, the higher the power consumption. You can select from 1-10 to strike a balance between the picture brightness / display performance / power consumption. Reducing the backlight setting will help you reduce power consumption and thus save money by reducing electricity bills.	



Colour Temperature	Select among colour temperature: Nature / Warm / User / Cool. Adjusts the colour components independently to achieve a warm or cool colour (for User mode). • Red: Increases red tint • Green: Increases green tint • Blue: Increases blue tint																									
Aspect Ratio	Allows you to watch the screen in various picture formats: Auto / 4:3 / 16:9 / Full / Zoom / Subtitle / SmartZoom. (Except USB mode)  Alternative _____ You may press the ASPECT button to select the aspect ratio directly. <table border="1"> <thead> <tr> <th></th><th>Input Signal 4:3</th><th>Input Signal 16:9</th></tr> </thead> <tbody> <tr> <td> Auto (except PC mode) </td><td> This selection will display the picture according to the aspect ratio of the input source. Black bars will appear on both the left and right of the screen.  </td><td> This selection will display the picture according to the aspect ratio of the input source.  </td></tr> <tr> <td> 4:3 </td><td> This selection will allow you to view a picture with an original 4:3 aspect ratio. Black bars will appear on both the left and right of the screen.  </td><td> This selection will allow you to adjust the picture vertically, in linear proportion. Black bars will appear on both the left and right of the screen.  </td></tr> <tr> <td> 16:9 </td><td> This selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen.  </td><td> This selection will allow you to view a picture with an original 16:9 aspect ratio.  </td></tr> <tr> <td> Full (DTV, HDMI and YPbPr mode only) </td><td> This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels.  </td><td> This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels.  </td></tr> <tr> <td> Zoom (except PC mode) </td><td> This selection will allow you to zoom in the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.  </td><td> This selection will allow you to zoom in the picture without any alteration, while the 4 sides of the picture will be cropped.  </td></tr> <tr> <td> Subtitle (except PC mode) </td><td> This selection will allow you to zoom in the picture without any alteration, while filling the entire screen with subtitles shown at the bottom of the screen.  </td><td> This selection will allow you to zoom in the picture without any alteration, while showing subtitles at the bottom of the screen.  </td></tr> <tr> <td> SmartZoom (except PC mode) </td><td> This selection is similar to 16:9 mode, but the picture slightly stretches horizontally and clips off a little from the top and bottom.  </td><td> This selection is similar to 4:3 mode, but the picture slightly stretches vertically and clips off a little from the top and bottom.  </td></tr> </tbody> </table>			Input Signal 4:3	Input Signal 16:9	Auto (except PC mode)	This selection will display the picture according to the aspect ratio of the input source. Black bars will appear on both the left and right of the screen. 	This selection will display the picture according to the aspect ratio of the input source. 	4:3	This selection will allow you to view a picture with an original 4:3 aspect ratio. Black bars will appear on both the left and right of the screen. 	This selection will allow you to adjust the picture vertically, in linear proportion. Black bars will appear on both the left and right of the screen. 	16:9	This selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen. 	This selection will allow you to view a picture with an original 16:9 aspect ratio. 	Full (DTV, HDMI and YPbPr mode only)	This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels. 	This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels. 	Zoom (except PC mode)	This selection will allow you to zoom in the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped. 	This selection will allow you to zoom in the picture without any alteration, while the 4 sides of the picture will be cropped. 	Subtitle (except PC mode)	This selection will allow you to zoom in the picture without any alteration, while filling the entire screen with subtitles shown at the bottom of the screen. 	This selection will allow you to zoom in the picture without any alteration, while showing subtitles at the bottom of the screen. 	SmartZoom (except PC mode)	This selection is similar to 16:9 mode, but the picture slightly stretches horizontally and clips off a little from the top and bottom. 	This selection is similar to 4:3 mode, but the picture slightly stretches vertically and clips off a little from the top and bottom. 
	Input Signal 4:3	Input Signal 16:9																								
Auto (except PC mode)	This selection will display the picture according to the aspect ratio of the input source. Black bars will appear on both the left and right of the screen. 	This selection will display the picture according to the aspect ratio of the input source. 																								
4:3	This selection will allow you to view a picture with an original 4:3 aspect ratio. Black bars will appear on both the left and right of the screen. 	This selection will allow you to adjust the picture vertically, in linear proportion. Black bars will appear on both the left and right of the screen. 																								
16:9	This selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen. 	This selection will allow you to view a picture with an original 16:9 aspect ratio. 																								
Full (DTV, HDMI and YPbPr mode only)	This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels. 	This selection will detect the resolution of the HDMI signal and display an image with the same number of pixels. 																								
Zoom (except PC mode)	This selection will allow you to zoom in the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped. 	This selection will allow you to zoom in the picture without any alteration, while the 4 sides of the picture will be cropped. 																								
Subtitle (except PC mode)	This selection will allow you to zoom in the picture without any alteration, while filling the entire screen with subtitles shown at the bottom of the screen. 	This selection will allow you to zoom in the picture without any alteration, while showing subtitles at the bottom of the screen. 																								
SmartZoom (except PC mode)	This selection is similar to 16:9 mode, but the picture slightly stretches horizontally and clips off a little from the top and bottom. 	This selection is similar to 4:3 mode, but the picture slightly stretches vertically and clips off a little from the top and bottom. 																								
Noise Reduction	Select to reduce the noise level of the connected device: Off / Low / Middle / High.																									

Screen	Allows you to adjust the PC desktop content. (PC mode only)	
Auto Adjust	Allows you to synchronise a PC signal automatically.	
Horizontal Pos.	Adjusts the position of the picture left and right in the window.	
Vertical Pos.	Adjusts the position of the picture up and down in the window.	
Size	Allows you to adjust the picture horizontally, in linear proportion.	
Phase	Controls the signal phase, which can improve focus clarity and image stability based on the PC mode.	

- 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 exit the menu.

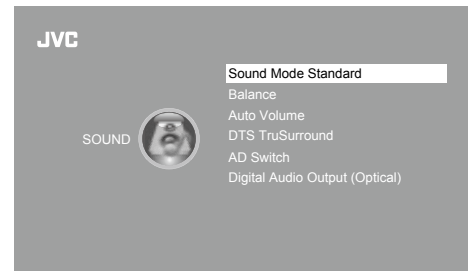
Sound Setting

Allows you to select an audio-enhancement technique.

- Press the **MENU** button and then press the **▲▼** buttons to select the **SOUND** menu and then press the **OK** button.

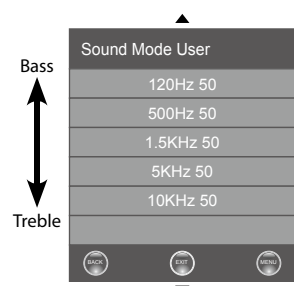


- Press the **▲▼** buttons to select the following sound options and then press the **OK** button.



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

Sound Mode	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. In User mode, press the ▲◀▶▼ buttons to adjust the intensity of high or low pitch sounds.
	To get a better sound effect, you may need to adjust the sound settings depending on the type of program you are watching.



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).
DTS TruSurround	DTS TruSurround delivers an immersive virtual surround sound experience over front facing speaker configurations, complete with rich bass, high frequency detail and clear dialogue. Press the OK button to select On / Off .
AD Switch (for DTV mode)	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. - 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 Audio Output (Optical)	Selects the digital audio output mode. Press the OK button to select 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 exit the menu.

Stereo / Dual Sound Reception (ATV Mode)

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

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

Mono sound selection

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

Language selection for dual language broadcast

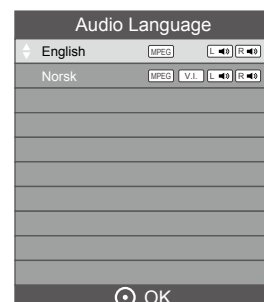
If a programme can be received in two languages (dual language), you can switch to **NICAM DUAL I**, **NICAM DUAL II**, **NICAM DUAL I+II** or **MONO** by pressing the **AUDIO** button repeatedly.

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 and time zone.

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



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



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

Clock	The clock is set automatically when receiving a digital signal.
Off Time	Allows you to set the off time that will automatically switch off the TV. Select from the following off time options: Off / Once / Every Day / Mon.~Fri. / Mon.~Sat. / Sat.~Sun. / Sunday.
On Time	Allows you to set the on time that will automatically switch on the TV and tune to the source, channel and volume you select. Select from the following on time options: Off / Once / Every Day / Mon.~Fri. / Mon.~Sat. / Sat.~Sun. / Sunday.  Ensure your SCART device is turned off before entering the On Time menu. If your SCART device is turned on, the On Time menu will default to the SCART device.
Sleep Timer	The sleep timer automatically switches the TV to standby after the preset time has elapsed. The clock will be set automatically when receiving a digital signal. Time must be set before using Sleep Timer function. Press the ▲▼ buttons to select a period of time after which the TV automatically switches to standby mode: OFF / 10 / 20 / ... / 180 / 240 min. The timer begins to count down from the number of minutes selected.  If you turn the TV off after setting the sleep timer, the sleep timer setting will be erased.
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 turn off the auto standby function, press the MENU button to display the main menu. Press the ▲▼ buttons to select the TIME option and then press the OK button. Press the ▲▼ buttons to select the Auto Standby (4 h) option and then press the OK button to select "Off". Press the EXIT button to exit the main menu. To save energy you should always turn the auto standby function back to "ON". The unit will automatically switch to standby mode in 5 minutes. Press the OK button to continue viewing. OK

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.
------------------	---

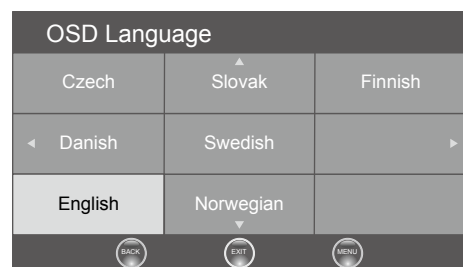
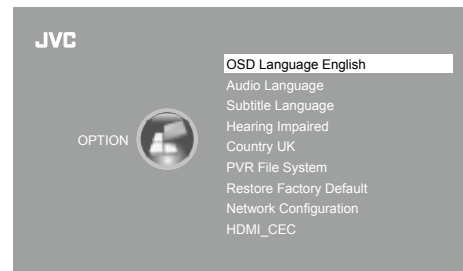
4. Press the **BACK** button to return to the previous menu or press the **MENU** button to return to the main menu.
5. Press the **EXIT** button to exit the menu.

Option Setting

OSD Language

Allows you to select your desired on screen menu language.

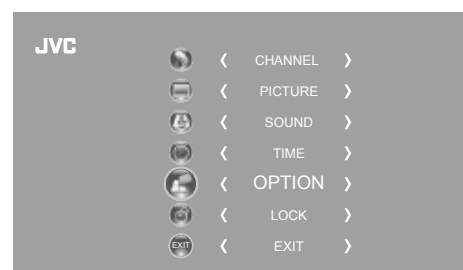
1. Press the **MENU** button and then press the **▲▼** buttons to select the **OPTION** menu and then press the **OK** button.
2. Press the **▲▼** buttons to select **OSD Language** and then press the **OK** button. The default on-screen menu language is English.
3. Press the **▲◀▶▼** buttons to navigate the menu and change the settings. Press the **OK** button to confirm.
4. Press the **BACK** button or the **MENU** button to return to the previous menu.
5. Press the **EXIT** button to exit the menu.



Audio Language (DTV Mode)

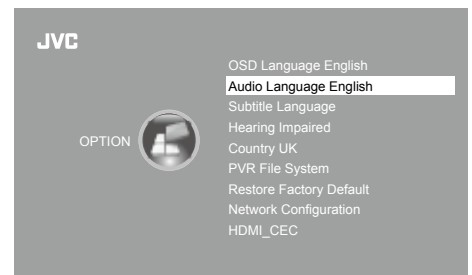
Allows you to select your desired audio language. (Available for digital channels if multiple audio languages are broadcast.)

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



5 Customising TV Settings

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



- Press the ◀▶ buttons to select the Primary / Secondary Audio Language. Press the ▼ button and then press the ▲◀▶▼ buttons to select your desired audio language. Press the **OK** button to confirm.
- Press the **BACK** button or the **MENU** button to return to the previous menu.
- Press the **EXIT** button to exit the menu.



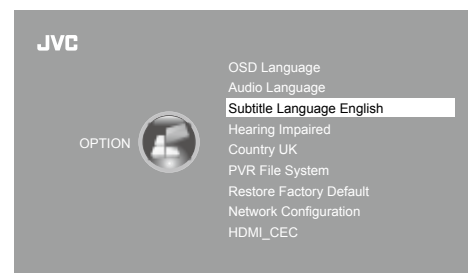
Subtitle Language (DTV Mode)

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

- Press the **MENU** button and then press the ▲▼ buttons to select the **OPTION** menu and then press the **OK** button.



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



- Press the ◀▶ buttons to select the Primary / Secondary Subtitle Language. Press the ▼ button and then press the ▲◀▶▼ buttons to select your desired subtitle language. Press the **OK** button to confirm.
- Press the **BACK** button or the **MENU** button to return to the previous menu.
- Press the **EXIT** button to exit the menu.

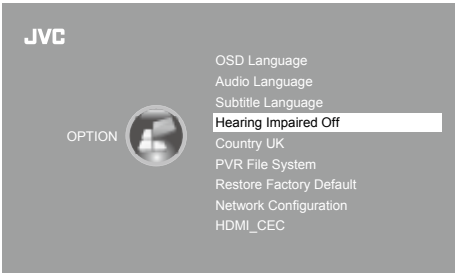


While watching a DTV programme, you can press the **S** button on the remote control to display the **Subtitle Language List** and then press the ▲▼ buttons to select the **Subtitle Language OFF**. Press the **OK** button to confirm. (Only applicable when the TV programme has this feature.)

Hearing Impaired

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

1. Press the **MENU** button and then press the **▲▼** buttons to select the **OPTION** menu and then press the **OK** button.
2. Press the **▲▼** buttons to select **Hearing Impaired** and then press the **OK** button to select **On / Off**.
3. Press the **BACK** button or the **MENU** button to return to the previous menu.
4. Press the **EXIT** button to exit the menu.



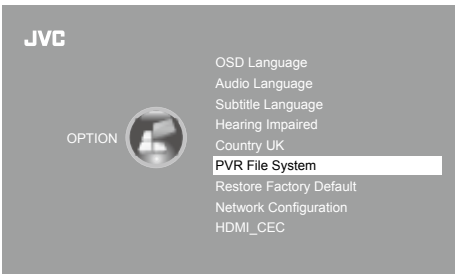
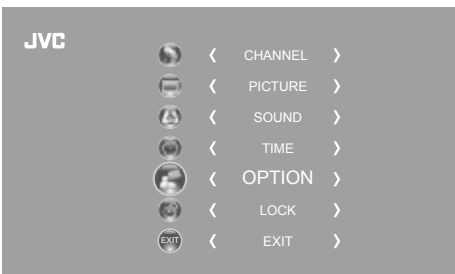
Country

This shows the country you selected in auto tuning. If you want to change the country, please refer to **Auto Tuning** on page 26.

PVR File System (DTV Mode)

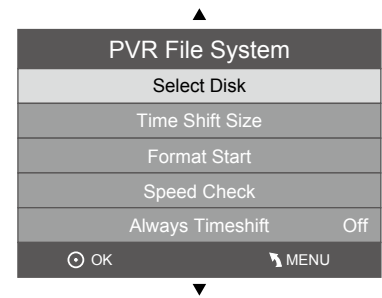
Allows you to select your preferences in the PVR File System.

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



5 Customising TV Settings

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



Select Disk	Press the ▲▼ buttons to select the disk where you want to store your recorded content.
Time Shift Size	Press the ◀▶ buttons to select your preferred file size then press the OK button to confirm.
Format Start	Press the ◀ button to select "Yes" and then press the OK button to start formatting.
Speed Check	This shows the transfer rate of your USB storage device.
Always Timeshift	Press the OK button to switch the Always Timeshift function to on or off status.
Remaining	This shows the remaining disk space and time to save your USB storage device.
Start Padding Time / End Padding Time	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. Padding time can be select among: None / 1 / 3 / 5 / 10 / 15 / 30 / 45 Minutes.

- Press the **BACK** button or the **MENU** button to return to the previous menu.
- Press the **EXIT** button to exit the menu.

Restore Factory Default

Restores all settings to the factory defaults.

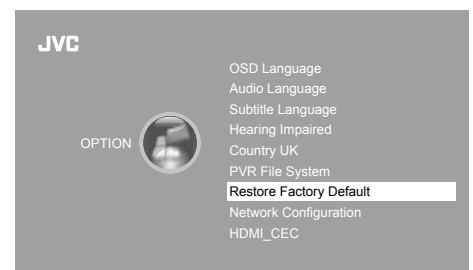
- Press the **MENU** button and then press the **▲▼** buttons to select the **OPTION** menu and then press the **OK** button.



- Press the **▲▼** buttons to select **Restore Factory Default** and then press the **OK** button.
- Press the **◀** button to select "Yes". The TV will turn off and restart after a few seconds. Press the **▶** button to select "No" to cancel and return to the previous menu.



All channel and user settings will be lost.



Network Configuration

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

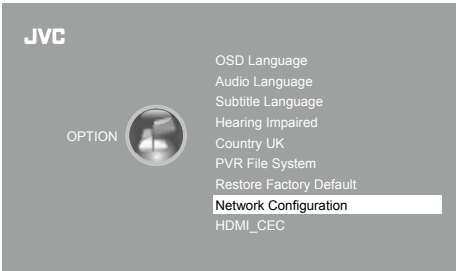


Manual setup is recommended for advanced users only.

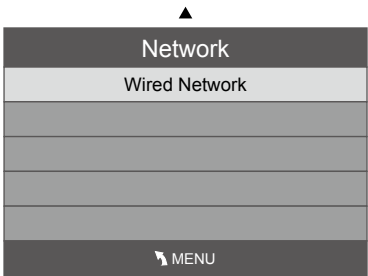
1. Press the **MENU** button and then press the **▲▼** buttons to select the **OPTION** menu and then press the **OK** button.



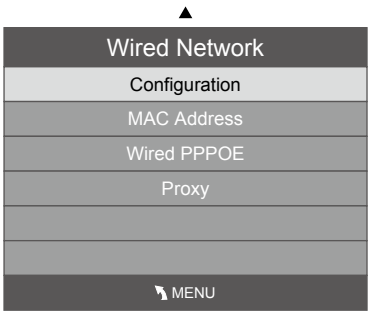
2. Press the **▲▼** buttons to select **Network Configuration** and then press the **OK** button.



3. Press the **OK** button to select **Wired Network**.



4. Press the **▲▼** buttons to select the following options and then press the **OK** button to display the information.



Configuration	Press the ◀▶ buttons to select Static or DHCP. Then press the ▲▼ buttons and the OK button to select IP, Netmask, Gateway and DNS. In IP, Netmask, Gateway and DNS submenu, press the ▲◀▶▼ buttons to select the values.	
MAC Address	Displays the MAC address.	
Wired PPPoE (Point-to-Point Protocol over Ethernet)	Press the ▲▼ buttons and then press the OK button to select the following options. Then press the ▶ button to select "Input". The popup keyboard will be display. Use the ▲◀▶▼ buttons to enter the appropriate user name or password. Then use the ▲◀▶▼ buttons to select "Return" to confirm. Finally press the BLUE button to re-connect the network.	
	SSID (Service Set Identifier)	Set the appropriate user name.
	Password	Set the user password.

5 Customising TV Settings

Proxy	Press the ◀▶ buttons to switch the Proxy On / Off . When the Proxy is switch to On , press the ▼ buttons to select IP and then the OK button. Use the ▲◀▶▼ buttons to adjust the settings.
--------------	---

- Press the **MENU** button to return to the previous menu.
- Press the **EXIT** button to exit the menu.

HDMI CEC (Consumer Electronics Control)

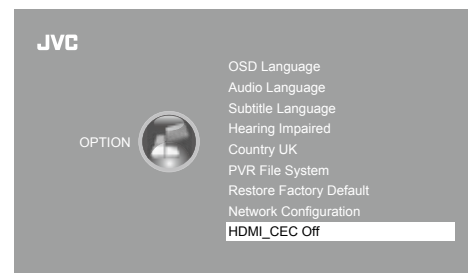
Allows you to command and control two or more CEC-enabled devices, that are connected through HDMI, by using only one of the remote controls (e.g. controlling a TV set, set-top box and DVD player using only the remote control of the TV). CEC also allows individual CEC-enabled devices to command and control 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.)

- Press the **MENU** button and then press the ▲▼ buttons to select the **OPTION** menu and then press the **OK** button.

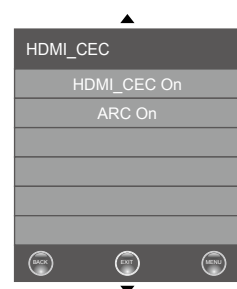


- Press the ▲▼ buttons to select **HDMI_CEC** and then press the **OK** button.



- Press the ▲▼ buttons to select the following options and then press the **OK** button.

HDMI_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 HDMI_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.



- 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 exit the menu.



- This unit can only communicate with HDMI-CEC compatible devices.
- To be sure that the HDMI-CEC device has this feature, check to see if there is HDMI-CEC compatible logo on it.
- HDMI-CEC function only works when the AV device supporting CEC is turned on.

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

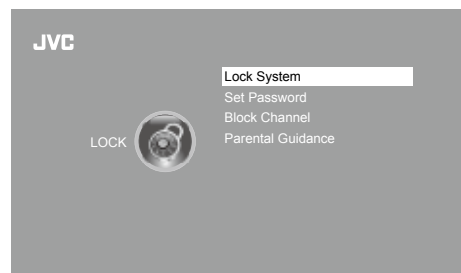
The Lock System is designed to prevent accidental re-tuning of the TV / losing of channels and to prevent children from watching unsuitable programmes.

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 / Restore Factory Default.

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



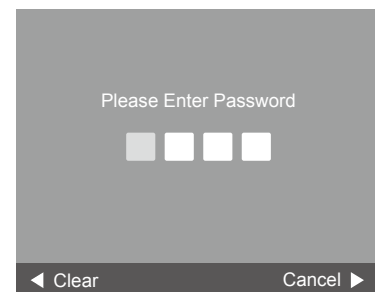
2. Press the **OK** button to select **Lock System**.



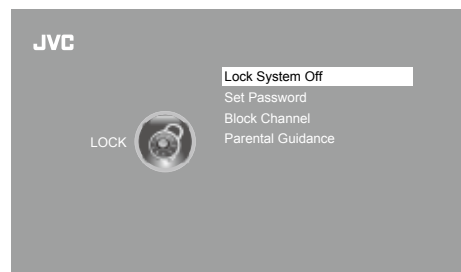
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



- 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 **OK** button 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 / Restore Factory Default**.
5. Press the **MENU** button to return to the main menu.
6. Press the **EXIT** button to exit the menu.

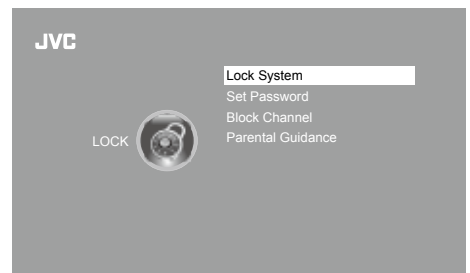


Set Password

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



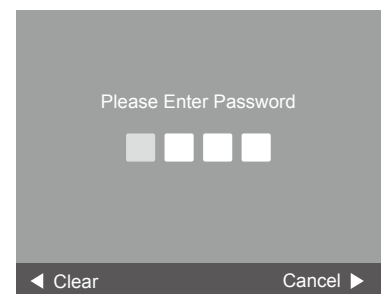
2. Press the **OK** button to select **Lock System**.



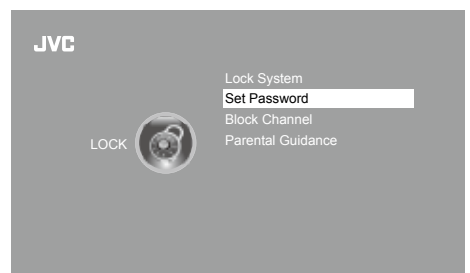
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



- 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".



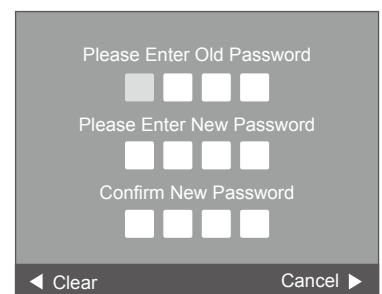
4. Press the **▲▼** buttons to select **Set Password** and then press the **OK** button.



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".

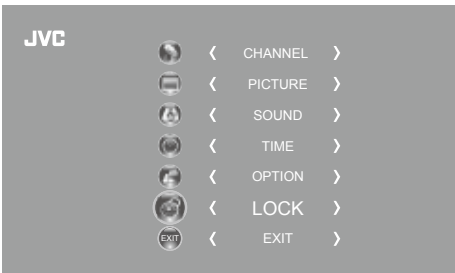


6. Press the **▶** button to return to the previous menu. Press the **MENU** button to return to the main menu.
7. Press the **EXIT** button to exit the menu.

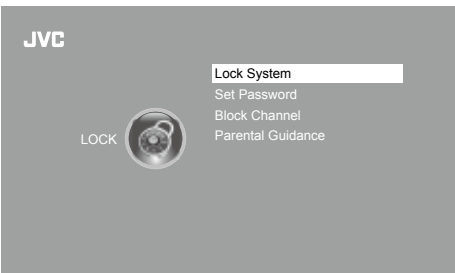
Block Channel

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 and then press the **▲▼** buttons to select the **LOCK** menu and then press the **OK** button.



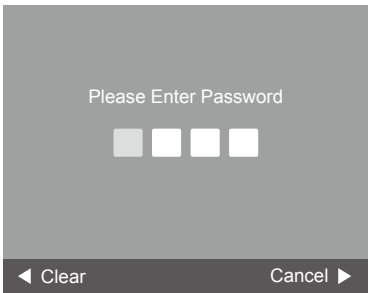
2. Press the **OK** button to select **Lock System**.



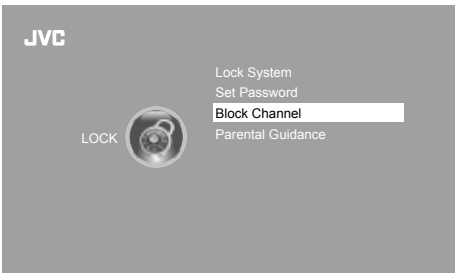
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



- 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 **MENU** button once to return to the previous menu. Press the **MENU** button again to return to the main menu.

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

Block Channel	
1 BBC ONE	DTV
2 BBC TWO	DTV
7 BBC THREE	DTV
9 BBC FOUR	DTV
70 CBBC Channel	DTV
71 CBeebies	DTV
73 CBBC HD	DTV
80 BBC NEWS	DTV
81 BBC Parliament	DTV
101 BBC ONE HD	DTV
● Lock	
OK	MENU

Parental Guidance

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

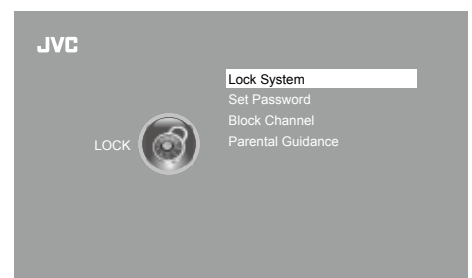
This TV is programmed to remember the last option set even if the TV is switched off.

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

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



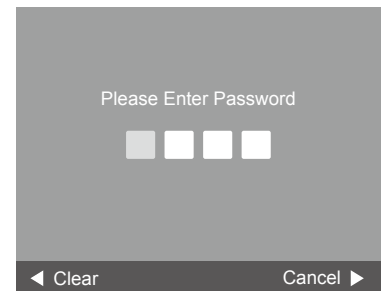
2. Press the **OK** button to select **Lock System**.



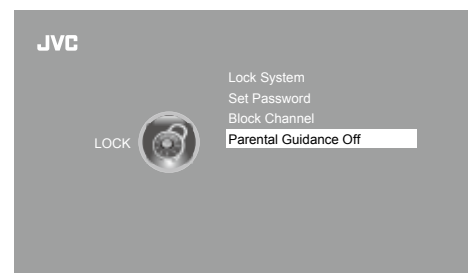
3. Use the **0-9** buttons to input a 4-digit password to enter the **LOCK** menu.



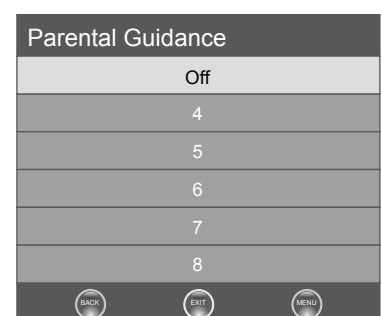
- The default password is "6666".
- If you change the password, be sure to remember the new password! If you forget the new password, enter the master password "9527".



4. Press the **▲▼** buttons to select **Parental Guidance** and then press the **OK** button.



5. Press the **▲▼** buttons to select an age rating: Off, 4-18. Then press the **OK** button to confirm.
6. Press the **BACK** button to return to the previous menu or press the **MENU** button to return to the main menu.
7. Press the **EXIT** button to exit the menu.



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.

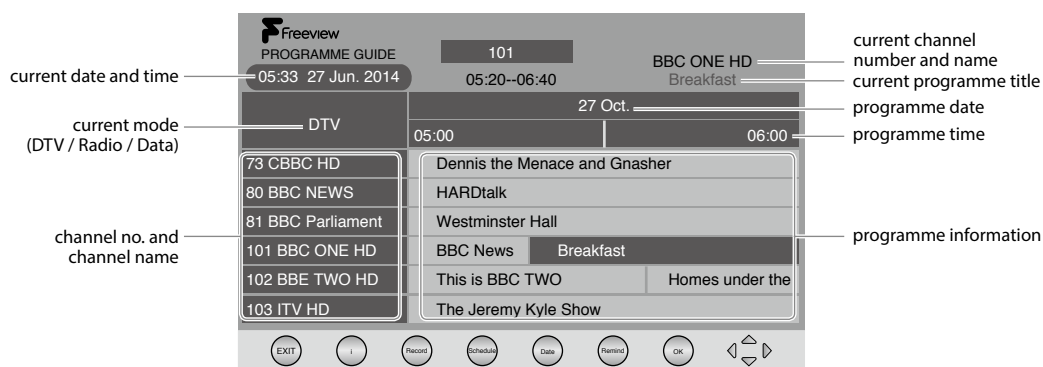
The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of programme information will vary, depending on the particular broadcaster).

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 (Record / Delete the selected preset reminder)	• Timer Programming See page 55 for details on Timer Programming. • Press the RED button in the Schedule list to delete the selected preset reminder.																																									
GREEN (Schedule)	Press the GREEN button to view the preset reminders or scheduled recordings in the Schedule list. Press the GREEN button again to return to the EPG. <table><tr><th colspan="6">Schedule List 05:34 27 Oct.</th></tr><tr><th></th><th>Time</th><th>Date</th><th>Programme Title</th><th>Channel Name</th><th>Delete</th><th>Return</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Schedule List 05:34 27 Oct.							Time	Date	Programme Title	Channel Name	Delete	Return																												
Schedule List 05:34 27 Oct.																																										
	Time	Date	Programme Title	Channel Name	Delete	Return																																				
YELLOW (Date)	Press the YELLOW button and then press the ◀▶ buttons to view the schedule of the previous / next day. Press the YELLOW button again to return to the EPG.																																									
BLUE (Remind)	Press the BLUE button while on the selected programme, the Reminder setting menu will be displayed. Press the ▲◀▶▼ buttons to adjust the settings and then press the OK button to confirm the settings. After confirmation, the Schedule list will then be displayed with your preset reminders shown. Press the GREEN button to return to the EPG. The TV will automatically tune to the selected programme when it starts. <table><tr><th colspan="2">Reminder setting</th></tr><tr><td colspan="2">101 BBC ONE HD</td></tr><tr><td colspan="2">Minute 40</td></tr><tr><td colspan="2">Hour 6</td></tr><tr><td colspan="2">Month Oct.</td></tr><tr><td colspan="2">Date 27</td></tr><tr><td colspan="2">Mode Once</td></tr><tr><td>⦿ OK</td><td>⦿ BACK</td></tr></table>	Reminder setting		101 BBC ONE HD		Minute 40		Hour 6		Month Oct.		Date 27		Mode Once		⦿ OK	⦿ BACK																									
Reminder setting																																										
101 BBC ONE HD																																										
Minute 40																																										
Hour 6																																										
Month Oct.																																										
Date 27																																										
Mode Once																																										
⦿ OK	⦿ BACK																																									
i	Press to display detailed information of the selected programme (if available).																																									
▲ or ▼	Press to select a channel.																																									
◀ or ▶	Press to select a programme.																																									
OK	Press to confirm and view the selected channel.																																									
GUIDE / EXIT	Press to switch off the EPG.																																									

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.

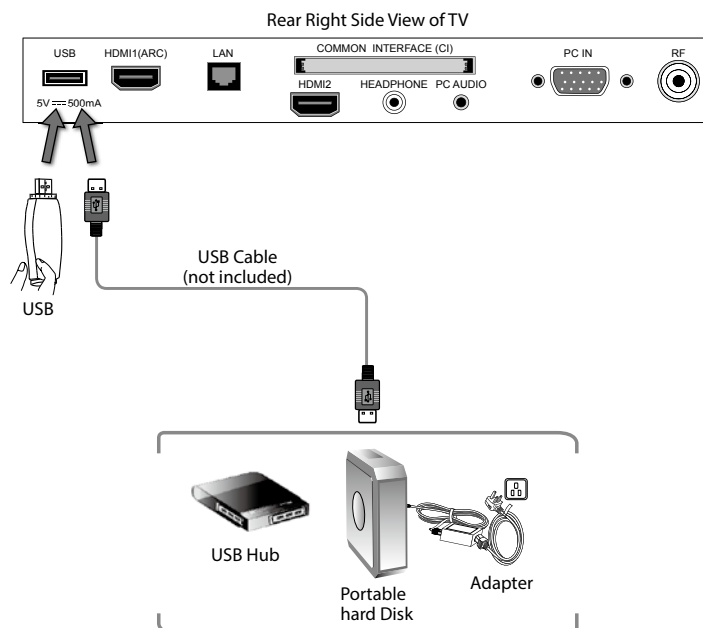
To access the pages, use navigation buttons to highlight item required and press the **OK** button to select.

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  button on the right bottom panel under the TV frame or on the remote control to turn on your TV and your USB storage device.
5. Press the  button on the right bottom panel under the TV frame or the **INPUT** button on the remote control to display the Source List. Use the   buttons 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 Movies

1. Press the  button on the right bottom panel under the TV frame or 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 **MOVIE** and then press the **OK** button.
3. If you have more the one devices connected, press the   buttons to select your storage device and then press the **OK** button.



7 Entertainment

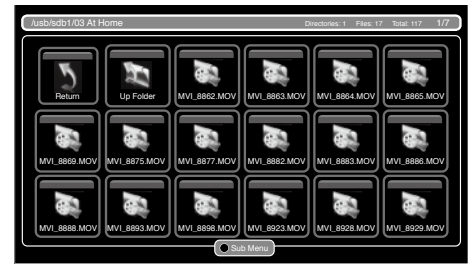
- Press the **▲◀▶▼** buttons to navigate in the movie folder and then press the **OK** button.

If you want to select the specified movie, press the **▲◀▶▼** buttons to select the movie file and then press the **OK** button. A tick box will be displayed. If you want to delete the file, press the **RED** button to enter the **Sub Menu** and then press the **◀** button to confirm.



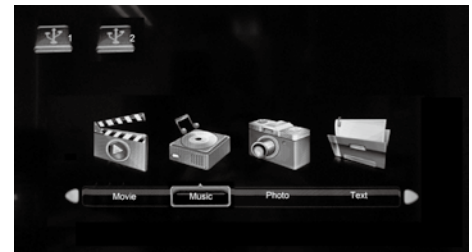
Some video file formats will not be supported.

- Press the **▶ PLAY** button to view.
- Press the **MENU** button to display the function bar. Press the **◀▶** buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / Rev / FF / Slow Motion (x1/2 / x1/4 / x1/8 / x1/16 / x1/32 / Play) / Repeat (Repeat All, Repeat Off / Repeat 1) / Play List / Info.
- Press the **EXIT** button to return to the previous menu.



Listening to Music

- Press the **USB** button on the right bottom panel under the TV frame or 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.



- If you have more the one devices connected, press the **◀▶** buttons to select your storage device and then press the **OK** button.



- Press the **▲◀▶▼** buttons to navigate in the music folder and then press the **OK** button.

If you want to select the specified music, press the **▲◀▶▼** buttons to select the music file and then press the **OK** button. A tick box will be displayed. If you want to delete the file, press the **RED** button to enter the **Sub Menu** and then press the **◀** button to confirm.



Some audio file formats will not be supported.



5. The music information will be displayed. Press the **▶ PLAY** button to play.
6. Press the **MENU** button to display the function bar. Press the **◀▶** buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / Rev / FF / Repeat (Repeat All / Repeat Off / Repeat 1) / Play List / Info.
7. Press the **EXIT** button to return to the previous menu.



Viewing Photos

1. Press the **USB** button on the right bottom panel under the TV frame or 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. If you have more the one devices connected, press the **◀▶** buttons to select your storage device and then press the **OK** button.



4. Press the **▲◀▶▼** buttons to navigate in the picture folder and then press the **OK** button.

If you want to select the specified photos, press the **▲◀▶▼** buttons to select the picture file and then press the **OK** button. A tick box will be displayed. If you want to delete the file, press the **RED** button to enter the **Sub Menu** and then press the **◀** button to confirm.



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



5. Press the **▶ PLAY** button to view.
6. Press the **MENU** button to display the function bar. Press the **◀▶** buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / Rotate- / Rotate+ / Zoom+ / Zoom- / Repeat All / BGM / Play List / Info.
7. Press the **EXIT** button to return to the previous menu.



My Text

1. Press the  button on the right bottom panel under the TV frame or 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 **TEXT** and then press the **OK** button.



3. If you have more the one devices connected, press the   buttons to select your storage device and then press the **OK** button.



4. Press the     buttons to navigate in the text folder and then press the **OK** button.

If you want to select the specified text file, press the     buttons to select the text file and then press the **OK** button. A tick box will be displayed. If you want to delete the file, press the **RED** button to enter the **Sub Menu** and then press the  button to confirm.

5. Press the  **PLAY** button to view.



6. Press the **MENU** button to display the function bar. Press the   buttons and then press the **OK** button to select the function: Previous / Next / Return / Go to / BGM / Play List / Info.



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

7. 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 Indicates the time lagging behind the live broadcast (PVR reviewing)
- 2 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, • 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 ▶▶▶	• Press the ▶▶▶ button to jump about 10% forward. • Press the ◀◀◀ button to jump about 10% back.
▶ PLAY or 	• 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.



If **Always Timeshift** is set to **ON** (refer to the section **PVR File System (DTV Mode)** on page 39 for details):

- Press the **||** button during playback, timeshift function will start recording, the programme will still go on, and the PVR Time Shift progress bar will not be displayed.
- Press the ◀◀ button during playback to fast backward the playing programme. Press the **■** button to resume normal playback.
- If you press the **●** button, a pop up message will display. You must set the **Always Timeshift** to **OFF** before using recording function.

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.

The recording is still in progress. Do you want to switch off the TV?
Yes, Stop recording and switch off the TV.
Yes, turn off the screen and sound, but keep recording the programme.
NO

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 Padding Time** and **End Padding Time** are set (for more details, please refer to the section **PVR File System (DTV Mode)** on page 39), 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.

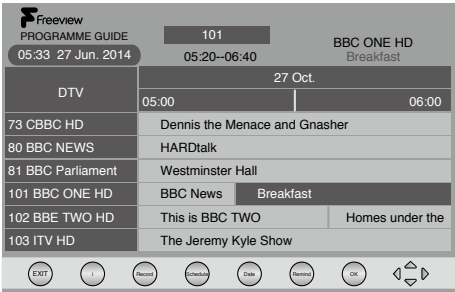
Timer Programming

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 **REC** menu will be displayed. The recording time for the selected programme will be automatically set. If you want to adjust the time, press the **▲◀▶▼** buttons to select the settings in the **REC** menu for the Channel, Start time, End time and Mode.



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

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

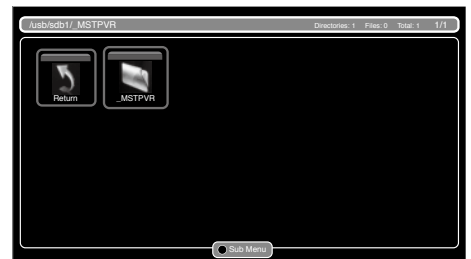
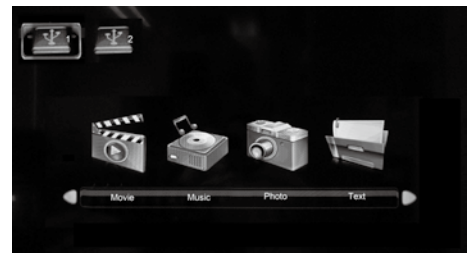
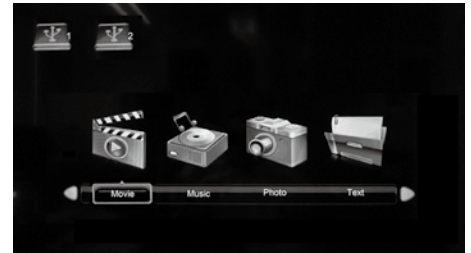


- After confirmation, you can press the **GREEN** button to view your scheduled recording in the **Schedule List**.
- If a programme recording starts when the TV is in standby mode, the LED indicator will flash red.

Playing Recorded Programme

You can play a recorded programme from the recorded programme list or from a USB Storage Device.

1. Press the  button on the right bottom panel under the TV frame or the **INPUT** button on the remote control and then press the   buttons to select the **USB** mode and then press the **OK** button.
2. Press the   buttons to select **MOVIE** and then press the **OK** button.
3. If you have more than one device connected, press the   buttons to select your storage device and then press the **OK** button.
4. Press the    buttons to select the "_MSTPVR" folder and then press the **OK** button.
5. Press the    buttons to select your recorded programme and then press the **OK** button. A tick box will be displayed. If you want to delete the file, press the **RED** button to enter the **Sub Menu** and then press the  button to confirm. Press the  **PLAY** button to view.
6. Press the **MENU** button to display the function bar. Press the   buttons and then press the **OK** button to select the function: Previous / Next / Pause / Stop / Rev / FF / Slow Motion (x1/2 / x1/4 / x1/8 / x1/16 / x1/32 / Play) / Repeat (Repeat All, Repeat Off / Repeat 1) / Play List / Info.
7. Press the **EXIT** button to return to the previous menu.



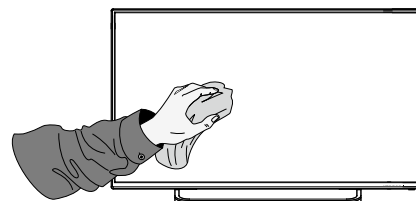
Maintenance

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



Be sure to press the  button at the right bottom panel under the TV frame or on the remote control to turn off the TV. Disconnect the mains cable from the mains socket before any cleaning.

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



Never use alcohol, 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	• The TV may freeze up during use. Disconnect the mains plug from the mains socket for a few minutes. Reconnect the mains plug and try to operate it again as usual.
TV cannot be switched on	• Check that the TV is connected to the mains supply is switched on. • Make sure all connected AV devices are switched off before switching on your TV.
The remote control does not work	• Check to see if there are any objects between the TV and the remote control causing an obstruction. Ensure that you are pointing the remote control directly at the TV. • Ensure that the batteries are installed with the correct polarity (+ to +, - to -). • Install new batteries.
Power is suddenly turned off	• Check the power of the TV. The mains supply maybe interrupted. • Check if the sleep timer is set. • Check whether the Auto Standby is activated.
Can't view Saorview channels	• Check that you have selected the correct country when tuning in your TV. For ROI select IRELAND. • You will only receive Saorview channels in ROI, retune your TV making sure to select IRELAND as your country.

The video function does not work.

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

No pictures when connecting HDMI	Check if the input source is HDMI1 / HDMI2 / HDMI3.
Picture appears in wrong ratio	Adjust the Aspect Ratio settings in the PICTURE menu or press the ASPECT button on the remote control.

The audio function does not work.

Picture OK but no sound	- Press the VOL + / - buttons. - Sound muted? Press the MUTE button. - Try another channel. The problem may be caused by the broadcaster.
No output from one of the speakers	Adjust the Balance settings in the SOUND menu.
Unusual sound from inside the TV	A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.
No sound when connecting HDMI	Check if the input source is HDMI1 / HDMI2 / HDMI3.
Audio noise	Keep the RF coaxial cable away from other connected cables.
Distorted sound	- Adjust the SOUND MODE setting in the SOUND menu, depending on the type of program you are watching. - If still have distorted sound, switch off the DTS TruSurround in SOUND menu, then re-adjust the SOUND MODE setting in the SOUND menu.

Password

Lost password	Select the 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.
----------------------	--

There is a problem in PC mode.

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

Channels are not recording.

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

FAQs (Frequently Asked Questions)

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

YPbPr Mode

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

PC Mode

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

Resolution	Vertical Frequency (Hz)	Aspect Ratio
640 x 480	60	4:3 / 16:9
	72	
	75	
800 x 600	60	
	72	
	75	
1024 x 768	60	
	70	
	75	
1360 x 768	60	
1366 x 768	60	
1920 x 1080	60	

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	

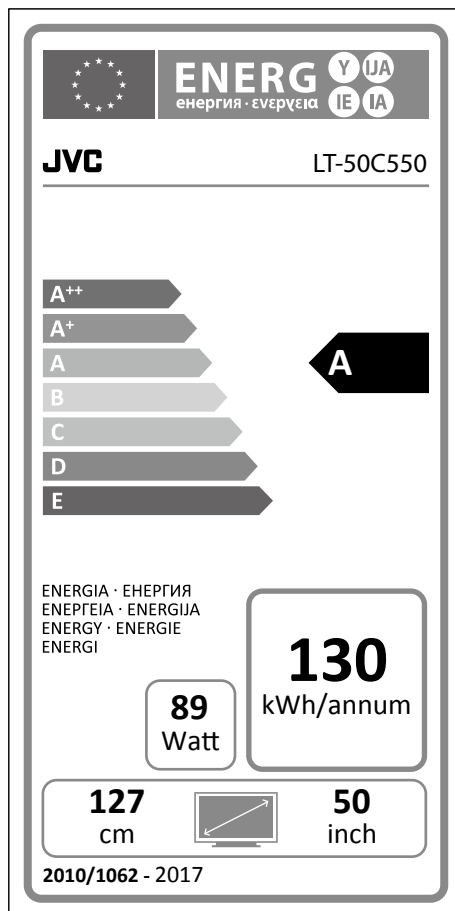
Product Fiche and Specifications

Brand	JVC
Model	LT-50C550
Energy Efficiency Class	A
Screen Size (measured diagonally)	Approx. 127 cm (50 inch)
Power Consumption (In HOME mode)	89.0 W
Average Annual Energy Consumption * (Please refer to *1 under this table)	130 kWh
Standby Power Consumption	0.50 W
Display Resolution	1920 pixels (horizontal) x 1080 pixels (vertical)
Panel System	50 inch LED Backlit LCD Panel
Television System	PAL I / SECAM L / BG / DK
Brightness	300 cd/m ²
Contrast Ratio	3000:1
Peak Luminance (On-Mode/Home Mode)	80%
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 – 2017
Speaker Power	12 W + 12 W
Dimension(W x D x H) with base	1127 x 260 x 699.5 mm
Weight (Net)	11.5 kg
Inputs / Output	
SCART	1
HDMI	3
PC IN	1
PC AUDIO	1
YPbPr	1
Common Interface	1
AV	1
Digital Audio Output (Optical)	1
USB	1
AUDIO IN (RCA)	1 (L + R)
Aerial	1
Headphone (3.5mm)	1
LAN	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 are **3456, 3460, 3830, 3859**. For instruction on how to use the code, see your Sky instruction manual.

Useful Information and Licences



For general information about this appliance and handy hints and tips, please visit www.knowhow.com/knowledgebank or call UK: **0344 561 1234** Ireland: **1890 818 575**.



Visit Partmaster.co.uk today for the easiest way to buy electrical spares and accessories. With over 1 million spares and accessories available we can deliver direct to your door the very next day. Visit www.partmaster.co.uk or call 0344 800 3456 (UK customers only). Calls charged at National Rate.



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

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

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

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

For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS TruSurround is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

All trademarks are the property of their respective owners and all rights are acknowledged.

Dear Customer,

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

European representative of the manufacturer is:

DSG Retail Ltd. (co. no. 504877)

1 Portal Way, London, W3 6RS, UK

For Help and Support Call

UK: 0344 561 1234

Ireland: 1890 818 575

The product is distributed and warranted exclusive by DSG Retail Ltd.
"JVC" is the trademark of JVC KENWOOD Corporation, used by DSG Retail Ltd. under license.