

Instruction Manual

Smart LED TV

LT-24CT250, LT-32CT250, LT-40CT350, LT-43CT350



Freely



Contents

1 Safety Warnings4

2 Preparation7

 Unpacking the TV7

 Installing / Removing the Base Stand8

 – Fitting the Stand8

 Mounting the TV to a Wall9

 Standby button on the TV9

 Rear View and Sockets10

 Installing Batteries in the Remote Control11

 Remote Control12

3 Initial Setup14

 Turning the TV On for the First Time14

 – Choosing your language, country and viewing mode15

 – Connecting to the Internet16

 – Tuning in Your TV18

4 Freely20

 – Getting to Know Freely20

5 Customising TV Settings21

 Picture Settings21

 Screen Settings22

 Sound Settings23

 Network Settings24

 Channel Settings25

 General Settings26

 Universal Access Settings27

 Child Lock Settings28

 Region and Language Settings29

 Software Settings30

6 Connecting Devices31

 Connecting a Soundbar via HDMI (ARC)31

 – Media Browser32

7 Technical Information and Help33

 Maintenance33

 Hints and Tips34

 Declaration of Conformity36

 License Information used with JVC Televisions37

 – About Open Source License37

 – Open Source37

Safety Warnings

Preparation

Initial Setup

Freely

Customising TV Setting

Connecting Devices

Technical Information and Help

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

Damage

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

Location of Unit

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

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

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

Wall Mounting

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

Temperature

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

Naked Flames

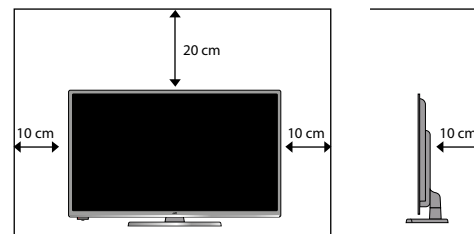
- Never place any type of candle or naked flame on the top of or near the unit.

Moisture

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

Ventilation

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



Safety

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

Mains Cable

- Make sure the unit or unit stand is not resting on top of the mains cable, as the weight of the unit may damage the mains cable and create a safety hazard.
- A damaged power cord/plug can cause fire or give you an electric shock. Handle the power cord by the plug, do not unplug the TV by pulling the power cord. Never touch the power cord/plug with wet hands as this could cause a short circuit or electric shock. Never make a knot in the power cord or tie it with other cords. If the mains cable is damaged it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

Interference

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

Optimum viewing

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

LCD screen

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

Screen Burn

- A characteristic of Plasma and TV Panels is that displaying the same image for a long time may cause a permanent after-image to remain on the screen. This is called screen burn. Most pictures shown on the unit will be constantly moving and fill the screen.
- Examples of images that you need to watch out for are as follows (this is not an all-inclusive list):
 1. **Black Bars:** If black bars appear at the left / right or top / bottom of the screen, it is recommended to change the format so that the picture fills the entire screen.
 2. **TV Channel Logos:** e.g. Shopping channel logos and pricing displays - especially if they are bright and stationary. Moving or low-contrast graphics are less likely to cause ageing of the screen.
 3. **Time Displays**
 4. **Interactive Services:** 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.

Country Restrictions for Wireless Internet

- This device is intended for home and office use in all EU countries (and other countries following the relevant EU directive) without any limitation except for the countries mentioned below.

Country	Restriction
Bulgaria (BG)	General authorization required for outdoor use and public service
France (FR)	In-door use only for 2454-2483.5 MHz
Italy (IT)	If used outside of own premises, general authorization is required
Greece (GR)	In-door use only for 5470 MHz to 5725 MHz band
Luxembourg (EL)	General authorization required for network and service supply(not for spectrum)
Norway (NO)	Radio transmission is prohibited for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation (RU)	In-door use only

- The requirements for any country may change at any time. It's recommended that user checks with local authorities for the current status of their national regulations for both 2.4 GHz and 5 GHz wireless LAN's.

Earphones

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

Standby

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

Batteries

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

Supervision

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

1 Safety Warnings

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
- Stand and Screws
- Remote Control
- Setup Guide



- If items are missing, or damaged please contact Partmaster (UK only). Tel: 0344 800 3456 for assistance. Parts are available for 7 years after purchase.

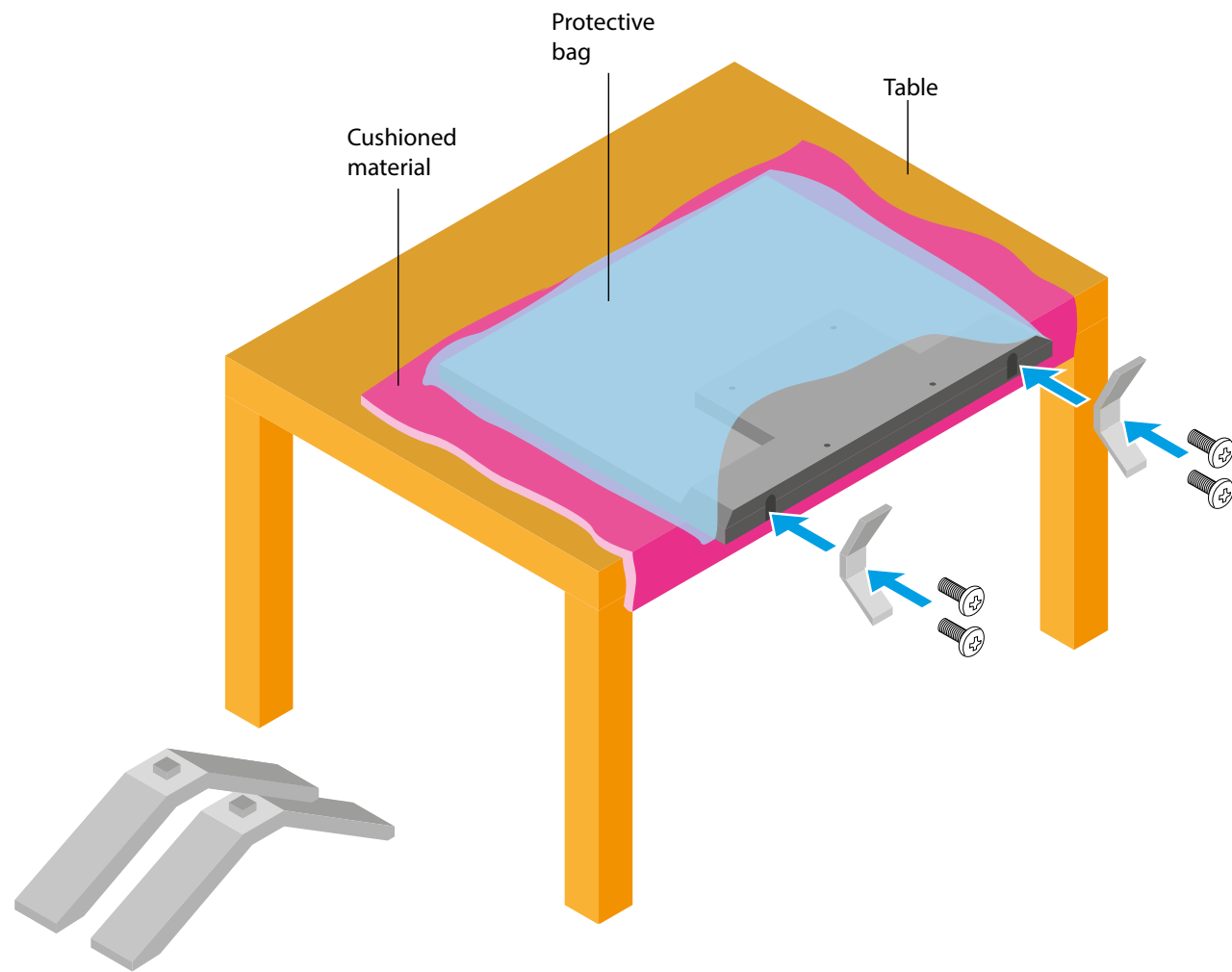
Installing / Removing the Base Stand



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.

Fitting the Stand

1. Ensure the TV is switched off and not connected to the mains power supply.
2. Lay the TV down on a flat surface ideally on the edge of a table so the base of the TV slightly overhangs the edge of the table, with the back side facing up. Please make sure a soft cushioned material (such as a dry bath towel or thick piece of foam) is placed beneath the screen.
3. Cut the protective bag open to access the bottom of the TV.
4. Connect the stand using the screws provided. The amount of screws may vary depending on your TV's screen size.



The arrow on each stand points to the front of the TV.



If you don't have a table big enough, you can use the TV box. Lie the box flat, make sure you place the polystyrene back in the box first to give the box some rigidity and strength.

Mounting the TV to a Wall

Use the instructions in your Quick Start Guide if you are wall mounting your TV straight out of the box. If you have already attached the stand then follow the instructions below.



Remove the stand assembly before mounting the TV onto the wall.

1. Remove the stand.
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 before mounting on to the wall.
3. Check your setup guide for vesa mount screw specifications.

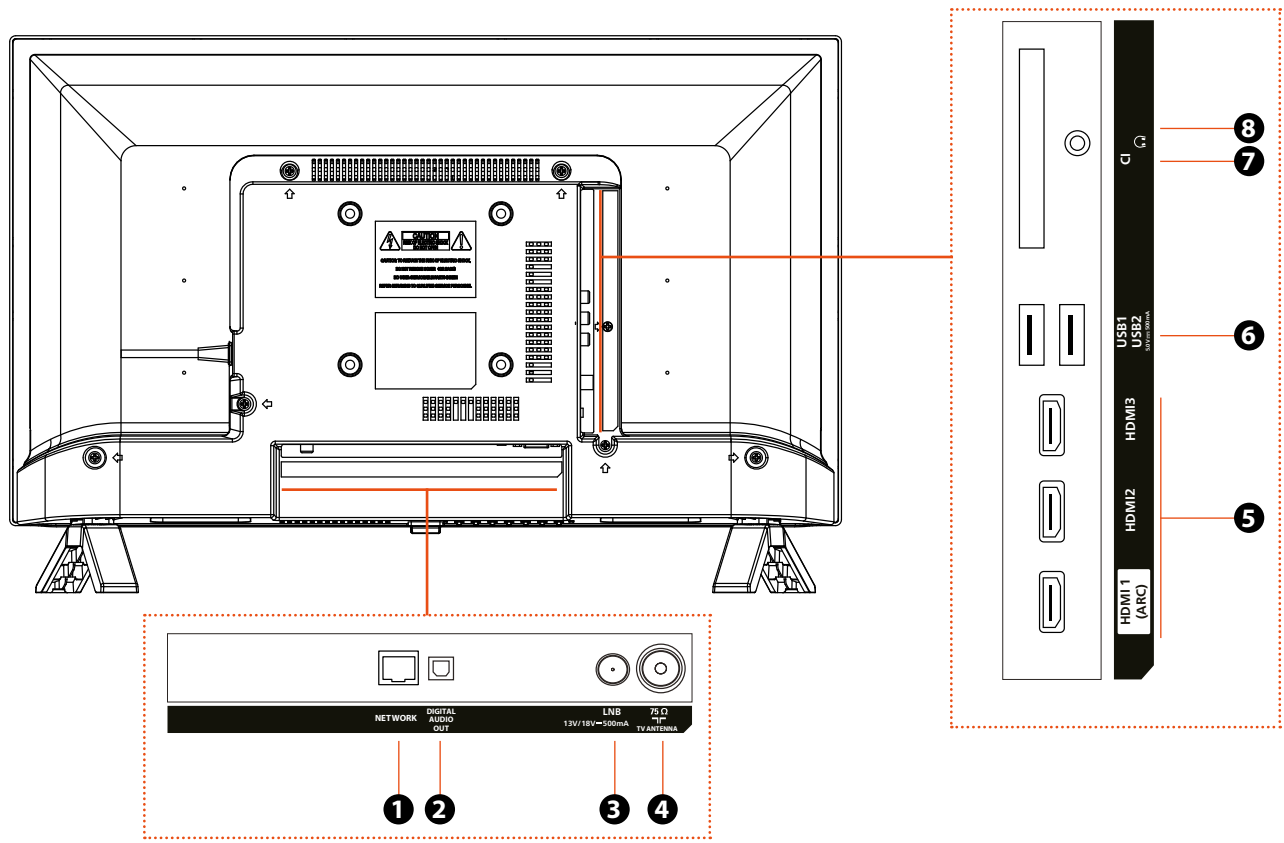


- If you are wall mounting your TV you may wish to buy a 90° HDMI adapter. This will help with your cable management.
- Please read this instruction manual carefully while setting up your TV.
- If you require additional assistance please call our Call Centre on (UK) **0344 561 1234** or (Ireland) **1 890 818 575**. Our Customer Contact Centre is open Monday-Saturday 8am-8pm or Sunday 8am-6pm.

Standby button on the TV

The standby button on the TV is situated to the left of the remote control sensor.

Rear View and Sockets



Item	Description
1 NETWORK	Connect to a router via a NETWORK cable for smart TV services.
2 DIGITAL AUDIO OUT	Optical audio out (Digital) - Connects to an audio device via an optical cable.
3 LNB	Connects to the Satellite socket on the wall with the RF coaxial cable.
4 TV ANTENNA	Connects to the aerial socket on the wall with the RF coaxial cable.
5 HDMI 1 (ARC), 2 & 3	Connects to output device, such as a set-top box, blu-ray disc player or AV receiver.
6 USB	Allows the insertion of a USB storage device to play video, audio, photo and text files (USB mode).
7 COMMON INTERFACE	Allows the insertion of a Common Access Module.
8	Connects to the headphones. The headphone jack must only have 2 divisions to mute the audio.

Installing Batteries in the Remote Control

- Slide open the battery compartment on the back of the remote control.
- Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment.
- Replace the battery compartment cover. Make sure it clicks into place.

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

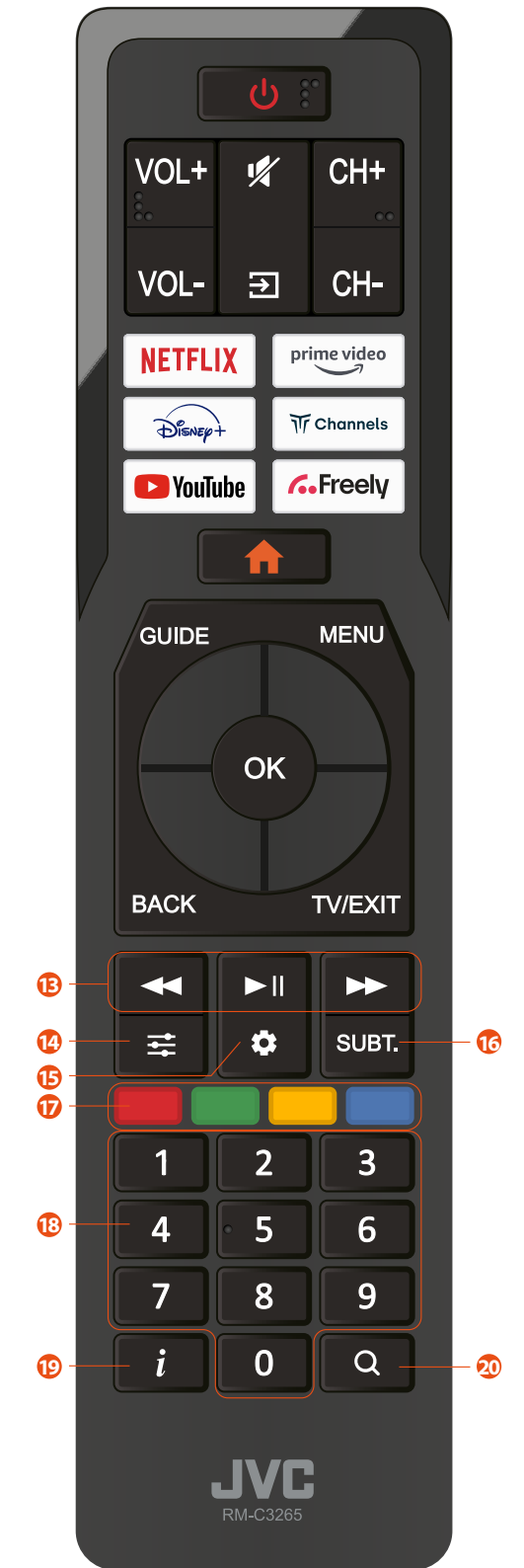
- Take care of your fingernails when you press and hold the battery release tab.
- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control under direct sunlight or 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

- 1. STANDBY Button**
Press to switch between on and standby.
- 2. MUTE**
Press to mute or un-mute the volume.
- 3. VOLUME +/- buttons**
Press to increase and decrease the volume level.
- 4. CHANNEL ▲▼ buttons**
• Press to scroll up and down the channel list.
- 5. INPUT Button**
Press to access the input menu.
- 6. PARTNER Buttons**
Dedicated buttons show the logo of a pre-set streaming content provider. Dedicated content providers vary by model and region. Pressing a button turns on the TV and:
 - Displays the streaming channel's main page if you have already added the channel to your Home screen.
 - Displays the streaming channel's sign-up page if you have not already added the channel.
- 7. HOME Button**
 - Press to view the home screen.
- 8. GUIDE Button**
Press to view the Live TV Programme Guide.
- 9. SETTINGS MENU Button**
Press to access the settings menus.
- 10. OK/NAVIGATION Button**
 - Press centre to select items in menus.
 - Press to navigate up, down, left or right (▲/▼/◀/▶).
- 11. BACK Button**
Press the move back through menus.
- 12. TV/EXIT Button**
 - Press to exit menus or apps.
 - Press to select live TV.

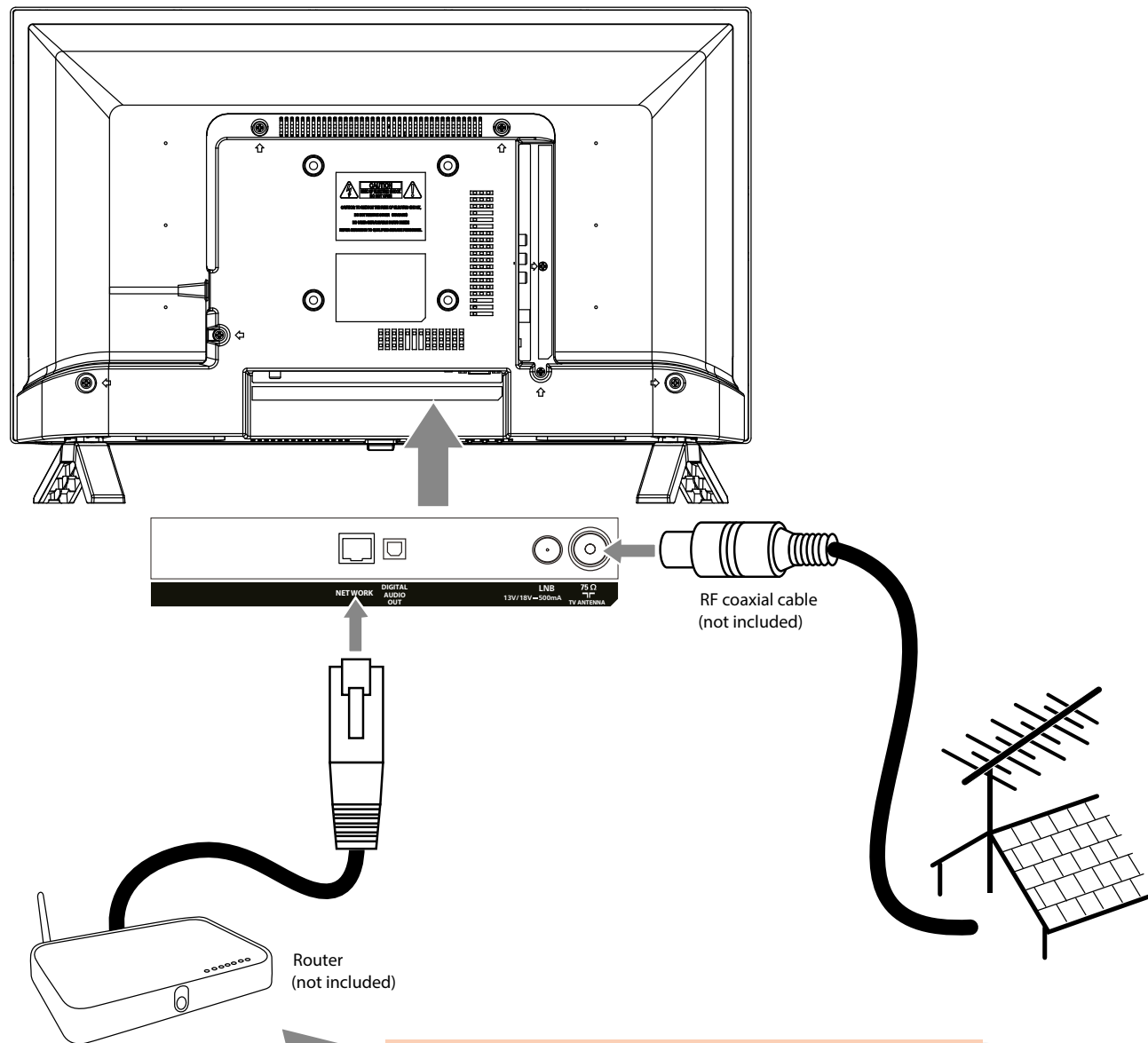


- 13. REWIND, PLAY/PAUSE & FAST FORWARD Buttons**
 - Press to rewind streaming content.
 - Press to fast streaming content.
 - Press to play live TV or streaming content.
 - Press to pause live TV or streaming content.
- 14. OPTIONS MENU Button**
Press to access a set of options.
- 15. SETTING Button**
Press to access the settings menu.
- 16. SUBTITLES Button**
Press to access the subtitles menu.
- 17. COLOURED Buttons**
 - Press the RED button to access Red button services if available.
 - Access the TELETEXT items (LIVE TV mode).
- 18. NUMBER Buttons**
Press to select a Live TV channel.
- 19. INFO Button**
Press to view channel information.
- 20. SEARCH Button**
Press to search for content.
Press and hold to activate/deactivate Voice Guidance.



Turning the TV On for the First Time

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 **TV ANTENNA** socket on the back of your TV.
2. Plug the TV into a mains socket and switch on at the mains.
3. In standby mode, press the  button on the remote control to turn the TV on. The LED indicator will flash for a few seconds then the TV will switch on.



Optional

If you want to connect to the internet via a wired connection then connect your ethernet cable to the **NETWORK** socket.



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

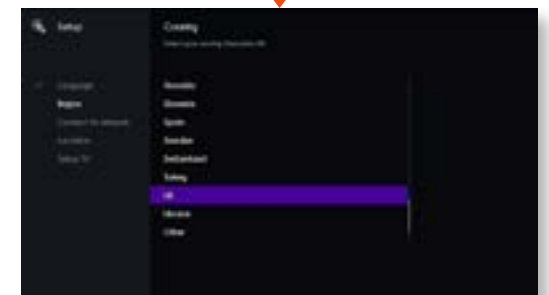
Choosing your language, country and viewing mode

The first time you switch your TV on it will automatically be in the initial setup mode. Follow the steps on screen to fully setup your TV.

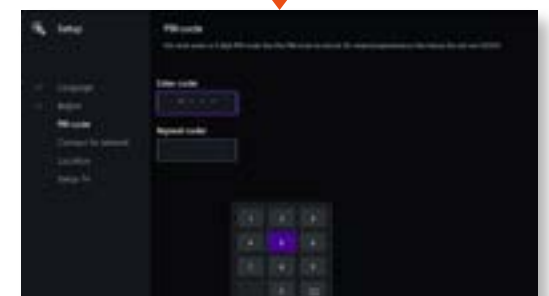
1. Press the   buttons to highlight your LANGUAGE then press the **OK** button.



2. Press the     buttons to highlight your COUNTRY then press the **OK** button.



3. Now set a PIN code for your TV. You will need to remember this code so write it down and keep it safe.



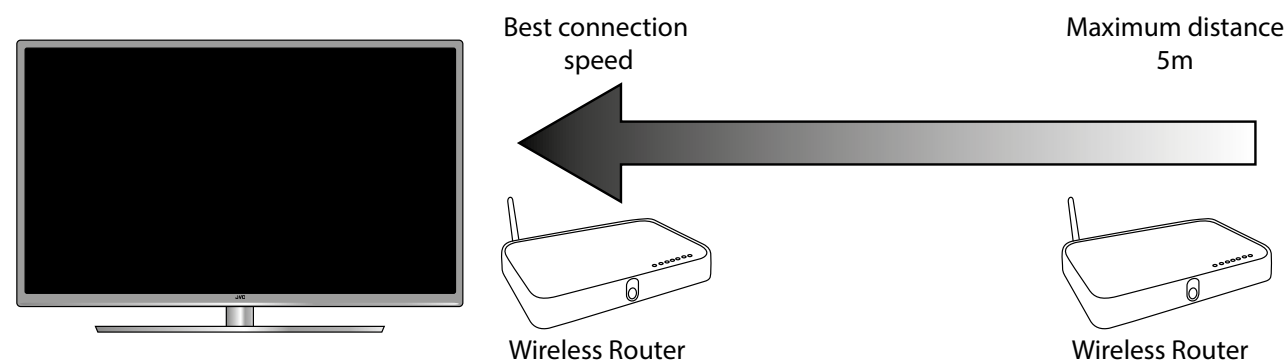
Connecting to the Internet

WIRED Connection

- If you have connected your ethernet cable to the **LAN** socket on the back of your TV, you will need to select WIRED DEVICE.

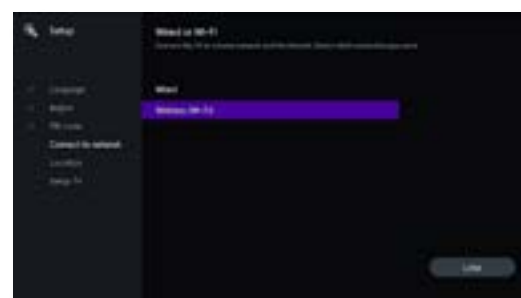
WIRELESS Connection

You can connect using a wireless connection via your router.

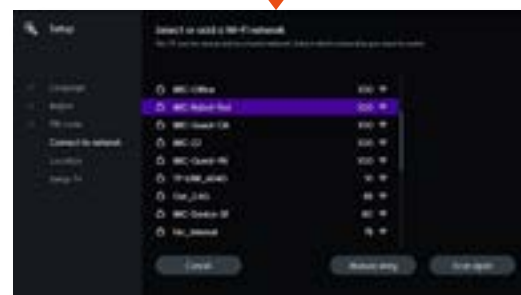


Make sure your TV is as close to your router as possible, within 5m and ideally in the same room as the TV

- Press the ▼ button to select WIRELESS (Wi-Fi) then press the OK button.



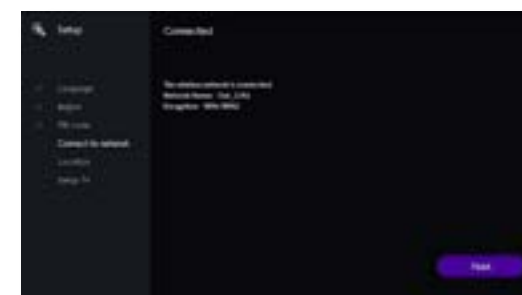
- A list of all the available wireless networks will appear, highlight your network then press the OK button.



- Enter your Wi-Fi password, then highlight OK and press the OK button.



- In a second or two your TV will show Connected, press the OK button to continue.



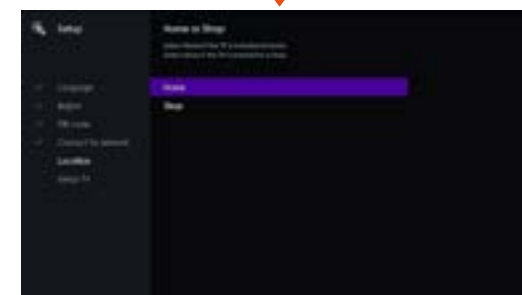
- The 'SMART TV TERMS OF USE' information will be displayed. Read the information and continue.



- The 'YOUR PRIVACY CHOICES' information will be displayed. Either allow all or make your choices and continue.



- Now you need to select where you are watching your TV. Select HOME and press the OK button.



Next you will need to choose if you would like to view Freely channels via the internet or tune in your TV using an aerial connection.

- To view just Freely internet channels go to **Viewing Freely Internet Channels**.
- To tune in your TV via the aerial and watch Freely broadcast channels go to **Tuning in your TV**.

To help you choose, here's a link to all the internet channels currently available on Freely:

<https://www.freely.co.uk/help/faqs/channel-list>

Viewing Freely Internet Channels

The beauty of Freely is that you don't need an aerial, so if you are wanting to watch your TV in a room without an aerial, then all you need is an internet connection.



If you View TV Through a Set Top Box

If you have attached a Set top box such as **Sky/Virgin** or **BT** via a HDMI cable then highlight select CONNECTED A SET-TOP BOX then select the HDMI socket its plugged into. This will mean your TV will not try to tune any channels in and will got straight to the Home page. To view your set top box select the Input that you have connected it to.

- 1. To just watch Freely internet channels, un-tick all the options and highlight CONTINUE and press **OK**.



- 2. Use the onscreen keyboard to enter your postcode, then select **ENTER**.



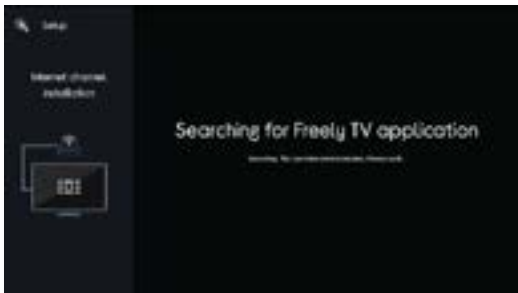
- 3. Your TV will search for all the internet channels. The number shown is the number of channels found.



The number of channel may appear less than if you had selected to tune in your TV in via an aerial. This is due to not needing the +1 channels and most radio channels are now accessed through the BBC Sounds app.



- 4. You will now briefly see SEARCHING FOR FREELY TV APPLICATION. Please wait for Freely to install.



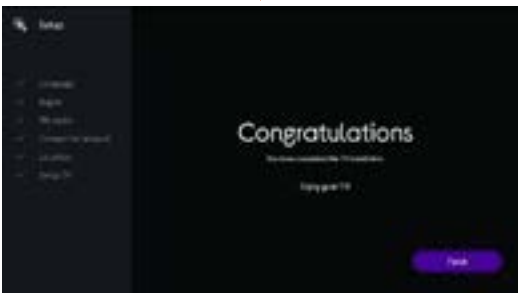
- 5. You will then see the WELCOME TO FREELY screen highlight DONE and press **OK**.



- 6. The NETWORK STANDBY NOTICE will be displayed, choose if you would like to enable or disable Wake-on-LAN.



- 7. Congratulations you're now all setup, highlight FINISH and press the **OK** button.



Tuning in Your TV

1. Make sure your aerial is connected then select INSTALL ANTENNA.



If you View TV Through a Set Top Box

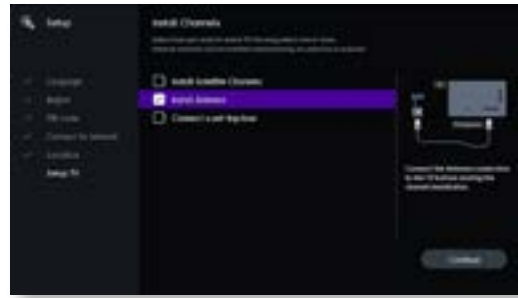
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2. Press **OK** to continue.

3. Your TV will now start to search for TV channels.

4. Once the channel scan is complete you'll be asked to enter your postcode. This is so that you receive the correct local channels. Use the on-screen keyboard to enter your postcode, then highlight ENTER and press the **OK** button.

5. The scan results will be displayed, highlight CONTINUE and press the **OK** button.



6. You will now briefly see SEARCHING FOR FREELY TV APPLICATION. Please wait for Freely to install.

7. When Freely has installed, highlight DONE and press the **OK** button.

8. The NETWORK STANDBY NOTICE will be displayed, choose if you would like to enable or disable Wake-on-LAN.

9. Congratulations you're now all setup, highlight FINISH and press the **OK** button.

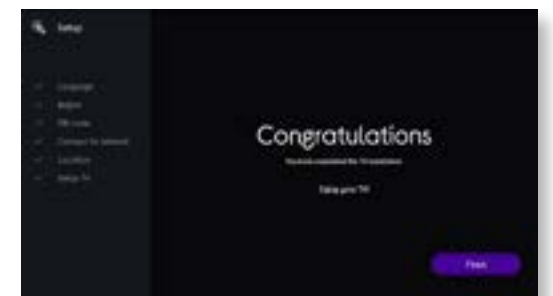
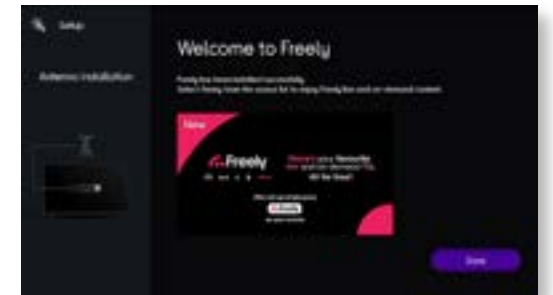
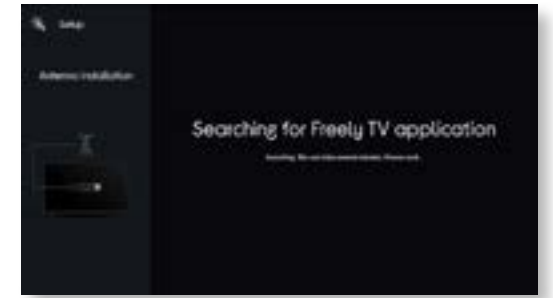


Moving rooms after tuning in

If you have tuned in your TV via the aerial and later decide to move it to another room in your house and just view Freely internet channels you may wish to install internet channels which removes the channels that have been installed via the aerial. The reason for doing this is to reset the channel list, which will make it easier when just viewing Freely internet channels. To install internet channels follow the steps below:

- Go to MENU - SETTINGS CHANNEL - INTERNET CHANNEL INSTALLATION, then follow the onscreen instructions.

Using this method will install all the internet channels but won't totally reset your TV, so any apps you have logged into will still remember your details.



Getting to Know Freely

Click on the link below to get and overview of the features and benefits of a Freely TV.
<https://www.freely.co.uk>

Key Features:

- Stream live and on demand.
- No aerial is needed, just wifi.
- Less scrolling and more watching with the Mini guide.
- Pause and restart live TV (max 15 mins).
- Easily find more episodes of your favourite programme using the browse feature.

Picture Settings

To access the PICTURE settings menu, press the **SETTINGS** button on your remote control. Then highlight PICTURE and press **OK**.
The following table show all the available picture setting adjustment on your TV. Not all of these setting apply to all Inputs.

Picture style	Your TV has preset picture styles which you can choose to match you viewing needs. Adjust the picture style as follows: PERSONAL - CRYSTAL CLEAR - HOME CINEMA - STANDARD - MOVIE - GAME (HDMI only) - MONITOR (HDMI only).
Contrast & Brightness	Adjust the backlight levels, contrast mode and contrast.
Colour	Adjust the colour levels of the picture.
Sharpness	Adjust the sharpness of the picture.
Picture Noise	Adjust the noise level of the picture.
Restore picture style	If you would like to reset all your picture setting to factory settings then select restore the picture.
Quick picture settings	If you re-tunned your TV or changed source you may have set some picture settings, you can redo these steps with QUICK PICTURE SETTINGS menu. Select the picture setting you prefer and go to the next setting. To do these steps, make sure the TV can tune to a TV channel or can show a programme from a connected device.

Screen Settings

To access the Screen settings menu, press the **SETTINGS** button on your remote control. Then highlight SCREEN and press **OK**.
The following table show all the available screen setting adjustment on your TV, these are only available while watching HDMI source.

Picture format	Picture format will adjust the aspect ratio of the picture. Your TV has the following preset picture formats: WIDE SCREEN - FILL SCREEN - FIT TO SCREEN - ORIGINAL - ADVANCED.
Advanced options	The picture format can be manually adjusted in ADVANCED setting. Here you can select more manual options. The options are as follows: SHIFT - ZOOM - STRETCH - UNDO.

Sound Settings

To access the SOUND settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight SOUND and press **OK**.
The following table show all the available sound setting adjustment on your TV.

Sound style	For easy sound adjustment, you can select a preset sound style. The sound styles are as follows: ENTERTAINMENT - MUSIC - DIALOGUE - PERSONAL.	
Personal setting	With personal setting you can adjust the dialogue level, this can make the dialogue level more or less prominent. Vocal boost can be adjusted between 0 -10, each equaliser setting can also be adjusted.	
TV placement	Installing your TV on the wall or on the TV stand can effect the sound output so in the TV PLACEMENT menu select the option that matches your installation.	
Advanced	Auto volume	Select ON to automatically level out sudden volume differences. Typically when you are switching channels. Select NIGHT MODE for a more comfortable quiet listening experience.
	Delta volume	The Delta volume setting can be used to adjust to balance the sound level difference between the TV channel and the HDMI source input. Press the ◀▶ buttons to adjust the delta value for TV speaker volume. <i>Delta volume is available when the input source is set to HDMI or Analogue sources and the Audio out is set to TV Speaker or HDMI sound system .</i>
	Audio out	Set the TV to play the sound on TV or on the connected audio system. You can select where you want to hear the TV sound and how you want to control it. • If you select TV SPEAKER, the TV speakers are always on. All the sound related settings are applicable to this mode. • If you select WIRED HEADPHONES, the sound will be played through headphones. • If you select OPTICAL , the TV speakers are switched off and the sound will be played through the device connected to Digital Audio Out - Optical. • If you select TV SPEAKER + WIRED HEADPHONES, the sound will be played through TV speakers and headphones. With an audio device connected with HDMI CEC, select HDMI sound system. The TV will switch off the TV speakers when the device is playing the sound
	Digital out format	<i>Digital output settings are available for SPDIF output (optical) and HDMI ARC sound signals.</i> Set the audio out signal of the TV to fit the sound capabilities of the connected Home Theatre System. • STEREO (uncompressed): If your audio playback devices have no multichannel sound processing, select to only output stereo content to your audio playback devices. • MULTICHANNEL: Select to output multichannel audio content (compressed multichannel sound signal) or stereo audio content to your audio playback devices. • MULTICHANNEL (bypass): Select to send original bitstream from HDMI ARC to the connected HDMI Sound System. <i>Make sure your audio playback devices support Dolby Atmos feature.</i> <i>SPDIF output (DIGITAL AUDIO OUT) will be disabled when streaming Dolby Digital Plus content.</i>
	Digital Out levelling	Adjust the loudness level from device which is connected to digital audio output (SPDIF) or HDMI. • Select MORE to have louder volume. • Select LESS to have softer volume.
	Digital out delay	For some Home Theatre Systems you might need to adjust the audio sync delay to synchronise the audio to the video. Select OFF if a sound delay is set on your Home Theatre System.
	Digital out offset	<i>Digital out offset is only available when Digital Out delay is set to ON.</i> • If you cannot set a delay on the Home Theatre System, you can set the TV to sync the sound. • You can set an offset that compensates for the time necessary for the Home Theatre System to process the sound of the TV picture. • You can set the value from 0 to 60ms.

Network Settings

To access the NETWORK settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight NETWORK and press **OK**.

The following table show all the available network setting adjustment on your TV. Highlight WIRED or WIFI and press **OK**.

Connect to network	If you would like to connect to a new network choose CONNECT TO NETWORK.
Check the network	To check the connection of your network select CHECK THE NETWORK.
View network settings	You can view all current network settings here. The IP and MAC address, signal strength, speed, encryption method, etc.
Network configuration	If your router has a WPS button, you can directly connect to it using this option. Highlight this option and press OK. Go to your router and press the WPS button on the router to make the connection. This will only be available is WIRELESS DEVICE is selected as your network type.
Static IP configuration	If you are an advanced user and want to install your network with Static IP addressing, set the TV to STATIC IP.
Switch on with LAN	You can switch this TV on from your smartphone or tablet if the TV is in Standby. The setting SWITCH ON WITH LAN must be switched on.
Wi-Fi On/Off	You can switch on or off Wi-Fi connection on your TV.
TV network name	If you have more than one TV in your home network, you can give the TV a unique name.
Netflix settings	With NETFLIX SETTINGS, you can view ESN number or deactivate Netflix device.
Clear internet memory	With Clear Internet Memory you clear your server registration and parental rating settings, your video store app logins, all App Gallery favourites, Internet bookmarks and history. Interactive MHEG applications can also save so-called 'cookies', on your TV. These files will also be cleared.

Channel Settings

To access the CHANNEL settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight CHANNEL and press **OK**.

The following table show all the available channel setting adjustment on your TV. The pin number you set when you installed your TV will be required.

Antenna installation	Update channels or re-tune your tv in this menu.
Satellite installation	Update satellite channels or re-tune your tv in this menu.
Internet channel installation	Update internet channels or re-tune your tv in this menu.
CAM operator profile	Switch on/off CAM operator profile (not applicable in the UK).
CAM profile name	Change the name of the CAM profile name (not applicable in the UK).
HBBTV and operator Apps settings	View and adjust all the HBBTV settings.
CAM interface	Change the CAM interface from PCMCIA or USB.

General Settings

To access the GENERAL settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight GENERAL SETTINGS and press **OK**.

The following table show all the available devices setting adjustment on your TV.

USB keyboard settings	Adjust the keyboard settings (a keyboard must be already attached to a USB socket).
Mouse settings	Adjust the mouse settings (a mouse must be already attached to a USB socket).
Power and energy	Select the TVs power and energy settings. The following settings can be adjusted: POWER-ON BEHAVIOUR, SCREEN OFF, SLEEP TIMER, SWITCH OFF TIMER (240 mins default), NO SIGNAL TIMER.
HDMI CEC	Switch HDMI CEC ON or OFF.
HDMI CEC remote control	Switch HDMI CEC remote control ON or OFF. This will allow your TV remote control to control HDMI connected devices.
Screensaver settings	Select to adjust the screensaver settings of your TV.
Location	Choose the location of your TV, select either HOME or SHOP.
Edit input sources	Change the name of your input sources, choose from the preset list.
Terms of use	Select to read the SMART TV TERMS OF USE.
Privacy settings	Select to read the PRIVACY SETTINGS of your TV. You can also view your ADVERTISING ID and LIMIT AD TRACKING.
Default settings	Select if you would like to set your SOUND and PICTURE setting back to factory settings.
Factory reset	To fully reset your TV, select FACTORY RESET, your pin code will be needed. This will delete all your settings.

Universal Access Settings

To access the UNIVERSAL ACCESS (accessibility) settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight UNIVERSAL ACCESS and press **OK**.

The following table show all the available devices setting adjustment on your TV.

Universal access	Selecting Universal access will add Universal access to the OPTIONS menu.
Hearing impaired	Switching on hearing impaired will display captions describing the non vocal parts of a scene, like a door opening. This is broadcaster dependant.
Audio description	Audio description describes what's happening in the screen. When you switch audio description on you will see the audio description menu. Here you can choose to adjust the mixed volume of the description and switch audio effects on or off.
Dialogue enhancement	Dialogue enhancement can make the dialogue clearer by altering the volume level of the dialogue. Only on certain content.
Voice guidance	Voice guidance will audibly guide you through on screen menus. This can also be activated and deactivated by pressing and holding the SEARCH button on the remote control.
Text magnification	Enabling text magnification will increase the font size of text in menus.

Child Lock Settings

To access the CHILD LOCK settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight CHILD LOCK and press **OK**.

The following table show all the available devices setting adjustment on your TV. To access these setting you will need to know the pin code you set when you installed your TV.

Parental rating	Set the parental rating of your TV. Viewers will then require a code to watch content that is above the parental rating.
App lock	Select APP LOCK to lock adult apps.
Change code	Set new code or reset change code. The child lock code is used to lock or unlock channels or programmes. <i>If you forgot your PIN code, you can override the current code use 8888 and enter a new code.</i>

Region and Language Settings

To access the REGION AND LANGUAGE settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight REGION AND LANGUAGE and press **OK**.

The following table show all the available devices setting adjustment on your TV.

Language	Digital TV channels can broadcast audio, subtitles and text with in multiple languages for a programme. You can set a preferred primary and secondary audio, subtitle and text language. If one of these languages is available, the TV will switch to this language.
Clock	The standard setting for the TV clock is AUTOMATIC. The time information comes from the broadcasted UTC - Coordinated Universal Time information. • If the clock is not correct, you can set the TV clock to COUNTRY DEPENDENT. • When you select COUNTRY DEPENDENT, you can set the time for AUTOMATIC, STANDARD TIME , or DAYLIGHT SAVING TIME.

Software Settings

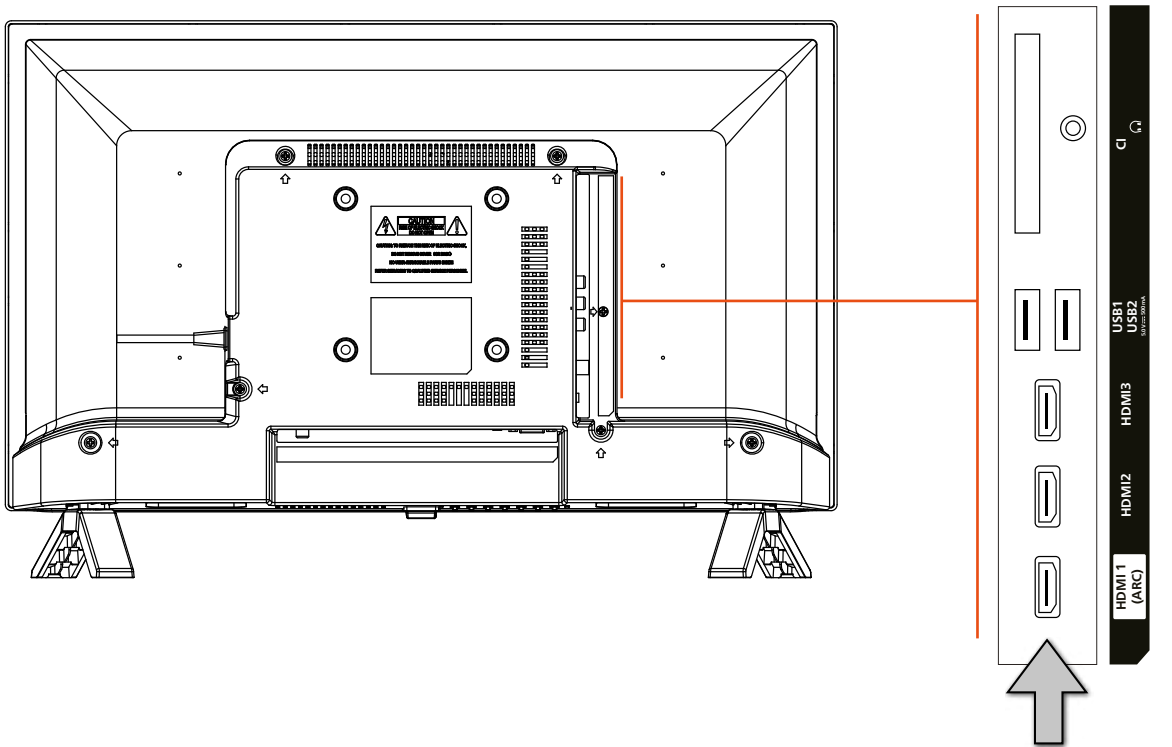
To access the SOFTWARE settings menu, press the **SETTINGS MENU** button on your remote control. Then highlight UPDATE SOFTWARE and press **OK**.

The following table show all the available devices setting adjustment on your TV.

Search of updates	Look for a software update yourself. - If the TV is connected to the Internet, you may receive a message to update the TV software. You need a high-speed (broadband) Internet connection. If you receive this message, we recommend you to carry out the update. - During the software update, there is no picture and the TV will switch off and on again. This might happen several times. The update can take a few minutes. - Wait until the TV picture comes back up. Do not press the STANDBY button on the TV or on the remote control during the software update.
Current software info	To view the current software version select CURRENT SOFTWARE INFO.
Automatic software update	To switch on Automatic software update to update your TV software automatically. Leave the TV in standby. When the setting is enabled, the upgrade gets downloaded when the TV is powered ON and installed 15min after the TV has gone to standby (as long as there is no alarm scheduled). When the setting is disabled, the "Upgrade Now" / "Later" OSD will be shown.
View software update history	Display the list of software versions that are successfully update on the TV.

Connecting a Soundbar via HDMI (ARC)

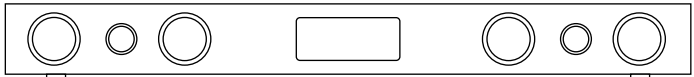
The ARC (Audio Return Channel) function allows you to send audio from your ARC-compliant TV to ARC-compliant audio devices (e.g. soundbar) through a single HDMI connection.



ARC enabled devices MUST be connected to the socket marked **HDMI 1 (ARC)**.



Make sure CEC is enabled when using an ARC-compliant device.



External speaker e.g. Soundbar

HDMI-ARC 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)** port 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.

1. Make sure your TV and ARC-compliant device are disconnected from the main and switched off.
2. Connect your ARC-compliant device to your TV making sure you use the **HDMI 1 (ARC)** socket on the back of the TV. The plug in and switch on at the mains.

Your soundbar will now switch on and off when you turn your TV on and off and you will also be able to adjust the volume using your TV remote control. If you find this isn't working check HDMI CEC DEVICE CONTROL is switched **ON**. Go to SETTINGS - DEVICES- CEC AUTO POWER ON.

Media Browser

If you have a USB storage device plugged into one of the USB sockets you can access them and display them in the Media Browser. The Media Browser allows you to display images, or play videos and audio files.



- Supported file Video formats: MPEG, MP4, MOV and WMV.
- Supported file Picture formats: JPEG, JPG, BMP and PNG.
- Supported file Music formats: MP3 and WAV.
- If you are using a USB 3.0 storage device it will work at a slower data transfer rate (the USB port is 2.0).
- Partitioned hard drives are NOT supported. If your hard drive has two partitions such as one NTFS and one FAT32. The NTFS partition may not work or could work slowly.

Maintenance

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

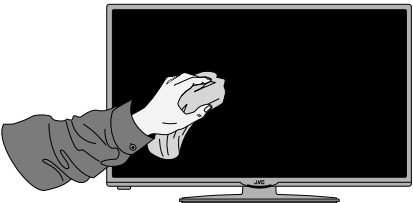


Be sure to press the  button on the remote control and disconnect the mains cable from the mains socket before any cleaning.

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 damp cloth.
3. Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching the TV on.



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



Hints and Tips

The following table contains various hints and tips to get the best performance from your TV. If you require additional assistance please call our Call Centre on (UK) **0344 561 1234** or (Ireland) **1 890 818575**. Our Customer Contact Centre is open 24/7.

The TV does not operate properly.	
The TV does not respond when pressing any buttons	The TV may freeze up during use. Switch the TV off at the mains for a few minutes. Switch on again and try to operate it again as usual.
TV cannot be switched on	- Check that the TV is connected to the mains supply and 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 TV has power to it. The mains supply maybe interrupted. - Check if the sleep timer is set. - Check whether the Auto Standby is activated.

The video function does not work.	
No Picture & No Sound	- Check whether the TV is switched on. - Try another channel. The problem may be caused by the broadcaster.
Picture appears slowly after switching on	This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	- Adjust the settings in the PICTURE menu. - Try another channel. The problem may be caused by the broadcaster. - Check if the video cables are connected properly.
Horizontal / Vertical bar or picture shaking	Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	- Station or cable channel may be experiencing problems, tune to another station. - Station signal is weak, reposition the aerial for better reception. - Check for sources of possible interference.
Lines or streaks in pictures	Check aerial (Change the position of the aerial.)
No pictures when connecting HDMI	Check if the input source is HDMI 1, 2 or 3.
Picture appears in wrong ratio	Adjust the Aspect Ratio in the PICTURE menu.
What is HDR?	This TV has High Dynamic Range (HDR) and is compatible with HDR 10. Using this feature the TV can reproduce a greater dynamic range of luminosity by capturing and combining several different exposures. HDR promises better picture quality thanks to brighter, more realistic highlights, more realistic colour and other improvements. It delivers the look that film makers intended to achieve, showing hidden areas of dark shadows and sunlight in full clarity colour and detail.

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, 2 or 3.
Audio noise	Keep the RF coaxial cable away from other connected cables.
TV not muting when Headphones are connected	Make sure you have selected 'HEADPHONE ONLY' in the sound menu, SOUND - SOUND OUTPUT - HEADPHONE ONLY. Also reduce the TV volume to 0.

Password	
Lost password	Factory reset your TV, then when you setup your TV again make a note of the password you set and keep it safe.

Smart TV isn't working	
Can't access Smart TV	- Check you are connected to your router and that the router is switch on and working. - Your router may be to far away from your TV, move your router closer to your TV. - Try connecting your TV to your router using an ethernet cable. - You must accept 'HBBTV and INTERNET CONNECTION' to be able to access any smart functionality on your TV. Go to SETTINGS - LEGAL - CONSENT SETTINGS.
Smart TV is very slow to activate	Your internet speed may be very slow, check your speed with your internet provider.
Some of the Apps have disappeared or changed	The Apps on your TV may have been updated or even removed this can happen at any time. Its normal and not a fault of your TV.

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-tune your TV. Don't worry, it is easy to do. And once you've done it, you should get all the 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. - You may find that some of the channel are different or on different channel numbers now that you have a Freely TV.
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.
What type of aerial do I need?	- For viewing Freely content (TV through the internet) an aerial is not required. If you wish to top up your channels then an aerial is required. - 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.
Pausing TV	You can pause live TV on most channels when you watch over Wi-Fi for up to 15 mins. Users can't pause the live TV that you watching through your aerial (rather than Wi-Fi).
No radio when using Wifi	To listen to radio stations while connected to the internet, you must use the Red button service so that you can listen to the radio stations on BBC Sounds app.

Declaration of Conformity



Hereby, Currys Group Limited., declares that this TV is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

<https://www.currys.co.uk>

Click on **SEARCH** and enter the model number.

License Information used with JVC Televisions

This television contains open source software.

Upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licences will be shared.

This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain the source code, please write in English to:

open.source@titanos.tv

Open Source

apr (1.7.0)

The Apache Portable Runtime Library provides a predictable and consistent interface to underlying platform-specific implementations, with an API to which software developers may code and be assured of predictable if not identical behaviour regardless of the platform on which their software is built, relieving them of the need to code special-case conditions to work around or take advantage of platform-specific deficiencies or features.

Source: <https://github.com/apache/apr>

bind (9.11.36)

BIND (Berkeley Internet Name Domain) is a complete, highly portable implementation of the Domain Name System (DNS) protocol.

Source: <https://github.com/isc-projects/bind9>

busybox (1.31.1)

BusyBox combines tiny versions of many common UNIX utilities into a single small executable. It provides replacements for most of the utilities you usually find in GNU fileutils, shellutils, etc. The utilities in BusyBox generally have fewer options than their full-featured GNU cousins; however, the options that are included provide the expected functionality and behave very much like their GNU counterparts. BusyBox provides a fairly complete environment for any small or embedded system.

Source: <https://www.busybox.net/downloads/>

binutils (2.31.510)

The GNU Binutils are a collection of binary tools. The main ones are:

ld - the GNU linker.

as - the GNU assembler.

Source: <https://www.gnu.org/software/binutils/>

bzip2 (1.0.6)

bzip2 is a free and open-source file compression program that uses the Burrows–Wheeler algorithm. It only compresses single files and is not a file archiver. It was developed by Julian Seward, and maintained by Mark Wielaard and Micah Snyder.

Source: <https://sourceware.org/bzip2/>

c-ares (1.10.1)

c-ares is a C library for asynchronous DNS requests (including name resolves)

Source: <https://c-ares.org/>

cario (1.16.0)

Cairo is a 2D graphics library with support for multiple output devices. Currently supported output targets include the X Window System (via both Xlib and XCB), Quartz, Win32, image buffers, PostScript, PDF, and SVG file output. Experimental backends include OpenGL, BeOS, OS/2, and DirectFB.

source <https://www.cairographics.org/>

dbus (1.11.2)

D-Bus is a simple system for interprocess communication and coordination. The "and coordination" part is important; D-Bus provides a bus daemon that does things like:

- notify applications when other apps exit

26.1. Open Source Software

26.2. Open Source License

- start services on demand

- support single-instance applications

Source: <https://github.com/freedesktop/dbus>

e2fsprogs (1.43.3)

e2fsprogs (sometimes called the e2fs programs) is a set of utilities for maintaining the ext2, ext3 and ext4 file systems. Since those file systems are often the default for Linux distributions, it is commonly considered to be essential software

Source: <http://e2fsprogs.sourceforge.net/>

expat (2.2.9)

xml parser; Expat is an XML parser library written in C. It is a stream-oriented parser in which an application registers handlers for things the parser might find in the XML document (like start tags). An introductory article on using.

This piece of software is made available under the terms and conditions of the Expat license, which can be found below.

Source: <http://expat.sourceforge.net/>

fuse (2.9.7)

JBoss Fuse is an open source ESB with capabilities based on Apache Camel, Apache CXF, Apache ActiveMQ, Apache Karaf and Fabric8 in a single integrated distribution.

Source <https://github.com/jboss-fuse/fuse>

gdb (8.2.1)

GDB, the GNU Project debugger, allows you to see what is going on 'inside' another program while it executes -- or what another program was doing at the moment it crashed.

Source: <https://www.sourceware.org/gdb/>

glibc (2.30.0)

Any Unix-like operating system needs a C library: the library which defines the "system calls" and other basic facilities such as open, malloc, printf, exit...The GNU C library is used as the C library in the GNU system and most systems with the Linux kernel

This piece of software is made available under the terms and conditions of the glibc license, which can be found below.

Source: <http://www.gnu.org/software/libc/>

gstreamer (1.18.3)

The GStreamer team is excited to announce a new major feature release of your favourite cross-platform multimedia framework!

Source: <https://gstreamer.freedesktop.org/>

libasound (1.1.8)

The Advanced Linux Sound Architecture (ALSA) provides audio and MIDI functionality to the Linux operating system. ALSA has the following significant features:

Efficient support for all types of audio interfaces, from consumer sound cards to professional multichannel audio interfaces.

Fully modularized sound drivers. SMP and thread-safe design (PLEASE READ THIS). User space library (alsa-lib) to simplify application programming and provide higher level functionality. Support for the older Open Sound System (OSS) API, providing binary compatibility for most OSS programs.

Source: https://www.alsa-project.org/wiki/Main_Page

Libcurl (7.79.1)

HTTP client; libcurl is a free and easy-to-use client-side URL transfer library, supporting FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS, FILE, IMAP, SMTP, POP3 and RTSP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos4), file transfer resume, http proxy tunneling and more! This piece of software is made available under the terms and conditions of the Libcurl license, which can be found below.

Source: <http://curl.haxx.se/>

libevent (1.4.13)

The libevent API provides a mechanism to execute a callback function when a specific event occurs on a file descriptor or after a timeout has been reached. Furthermore, libevent also support callbacks due to signals or regular timeouts.

source: <https://libevent.org/>

libjpeg-turbo (2.1.1)

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, AVX2, Neon, AltiVec) to accelerate baseline JPEG compression and decompression on x86, x86-64, Arm, and PowerPC systems, as well as progressive JPEG compression on x86 and x86-64 systems. On such systems, libjpeg-turbo is generally 2-6x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highlyoptimized Huffman coding routines. In

many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Source: <https://libjpeg-turbo.org/>

libjpg (6b)

This library is used to perform JPEG decoding tasks. This piece of software is made available under the terms and conditions of the libjpg license, which can be found below.

Source: <http://www.ijg.org/>

libpng (1.0.1)

libpng -THE reference library for reading, displaying, writing and examining png Image Network Graphics. This piece of software is made available under the terms and conditions of the libpng license, which can be found below.

Source: <http://sourceforge.net/projects/libpng/files/>

libffi (3.2.1)

Compilers for high level languages generate code that follows certain conventions. These conventions are necessary, in part, for separate compilation to work. One such convention is the "calling convention". The "calling convention" is a set of assumptions made by the compiler about where function arguments will be found on entry to a function. A "calling convention" also specifies where the return value for a function is found.

Source: <https://sourceware.org/libffi/>

libjansson (2.13.1)

Jansson is a C library for encoding, decoding and manipulating JSON data. Its main features and design principles are:

Simple and intuitive API and data model

Comprehensive documentation

No dependencies on other libraries

Full Unicode support (UTF-8)

Extensive test suite

Source: <https://github.com/akheron/jansson>

libmicrohttpd (0.9.73)

GNU libmicrohttpd is a small C library that is supposed to make it easy to run an HTTP server as part of another application. GNU Libmicrohttpd is free software and part of the GNU project

Source: <https://www.gnu.org/software/libmicrohttpd/>

libupnp (1.6.10)

The portable SDK for UPnP™ Devices (libupnp) provides developers with an API and open source code for building control points, devices, and bridges that are compliant with Version 1.0 of the Universal Plug and Play Device Architecture Specification and support several operating systems like Linux, *BSD, Solaris and others.

Source: <https://pupnp.sourceforge.io/>

libuuid (1.3.0)

This library is free software; you can redistribute it and/or modify it under the terms of the Modified BSD License. The complete text of the license is available at the Documentation/licenses/COPYING.BSD-3 file

Source: <https://sourceforge.net/projects/libuuid/>

Libxml2 (2.9.12)

The "libxml2" library is used in AstroTV as a support for the execution of NCL application. This library was developed for the GNOME software suite and is available under a "MIT" license.

Source: <http://www.xmlsoft.org>

linux_kernel (4.19)

The Linux kernel is a mostly free and open-source,[11] monolithic, modular, multitasking, Unix-like operating system kernel. It was originally authored in 1991 by Linus Torvalds for his i386-based PC, and it was soon adopted as the kernel for the GNU operating system, which was written to be a free (libre) replacement for UNIX.

Source: <https://www.kernel.org/>

mbed TLS (2.26.0)

Mbed TLS is a C library that implements cryptographic primitives, X.509 certificate manipulation and the SSL/TLS and DTLS protocols. Its small code footprint makes it suitable for embedded systems.

Source: <https://github.com/ARMmbed/mbedtls>

ncurses (6.1)

The ncurses (new curses) library is a free software emulation of curses in System V Release 4.0 (SVr4), and more. It uses terminfo format, supports pads and color and multiple highlights and forms characters and function-key mapping, and has all the other SVr4-curses enhancements over BSD curses. SVr4 curses is better known today as X/Open Curses.

Source: <http://www.gnu.org/software/ncurses/>

nghttp2 (1.6.3)

nghttp2 is an implementation of HTTP/2 and its header compression algorithm HPACK in C.

Source: <https://nghttp2.org/>

NTFS-3G (7.8)

NTFS-3G is an open source cross-platform implementation of the Microsoft Windows NTFS file system with read-write support. NTFS-3G often uses the FUSE file system interface, so it can run unmodified on many different operating systems. It is runnable on Linux, FreeBSD, NetBSD, OpenSolaris, BeOS, QNX, WinCE, Nucleus, VxWorks, Haiku, MorphOS, and Mac OS X. It is licensed under either the GNU General Public License or a proprietary license. It is a partial fork of ntfsprogs and is under active maintenance and development. This piece of software is made available under the terms and conditions of the NTFS-3G Read/Write Driver license, which can be found below.

Source: <http://www.tuxera.com>

openssl (1.1.1l)

OpenSSL is an open source implementation of the SSL and TLS protocols. The core library (written in the C programming language) implements the basic cryptographic functions and provides various utility functions. Wrappers allowing the use of the OpenSSL library in a variety of computer languages are available.

Source: <http://www.openssl.org/>

pcre (8.45)

The PCRE library is a set of functions that implement regular expression pattern matching using the same syntax and semantics as Perl 5. PCRE has its own native API, as well as a set of wrapper functions that correspond to the POSIX regular expression API. The PCRE library is free, even for building proprietary software.

<https://www.pcre.org/>

procps (ps, top) (3.3.15)

procps is the package that has a bunch of small useful utilities that give information about processes using the /proc filesystem.

The package includes the programs ps, top, vmstat, w, kill, free, slabtop, and skill.

Source: <http://procps.sourceforge.net/index.html>

SQLite3 (3.36.0)

SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. This piece of software is made available under the terms and conditions of the SQLite3 license, which can be found below.

Source: <http://www.sqlite.org/>

util-linux-ng (2.35.2)

Various system utilities.

Source: <http://userweb.kernel.org/~kzak/util-linux-ng/>

wpa_supplicant (2.9)

wpa_supplicant is a WPA Supplicant for Linux, BSD, Mac OS X, and Windows with support for WPA and WPA2 (IEEE 802.11i / RSN). It is suitable for both desktop/laptop computers and embedded systems. Supplicant is the IEEE 802.1X/WPA component that is used in the client stations. It implements key negotiation with a WPA Authenticator and it controls the roaming and IEEE 802.11 authentication/association of the wlan driver.

Source: https://w1.fi/wpa_supplicant/

zlib (1.2.8)

The 'zlib' compression library provides in-memory compression and decompression functions, including integrity checks of the uncompressed data. This piece of software is made available under the terms and conditions of the zlib license, which can be found below.

Source: <http://www.zlib.net/>

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